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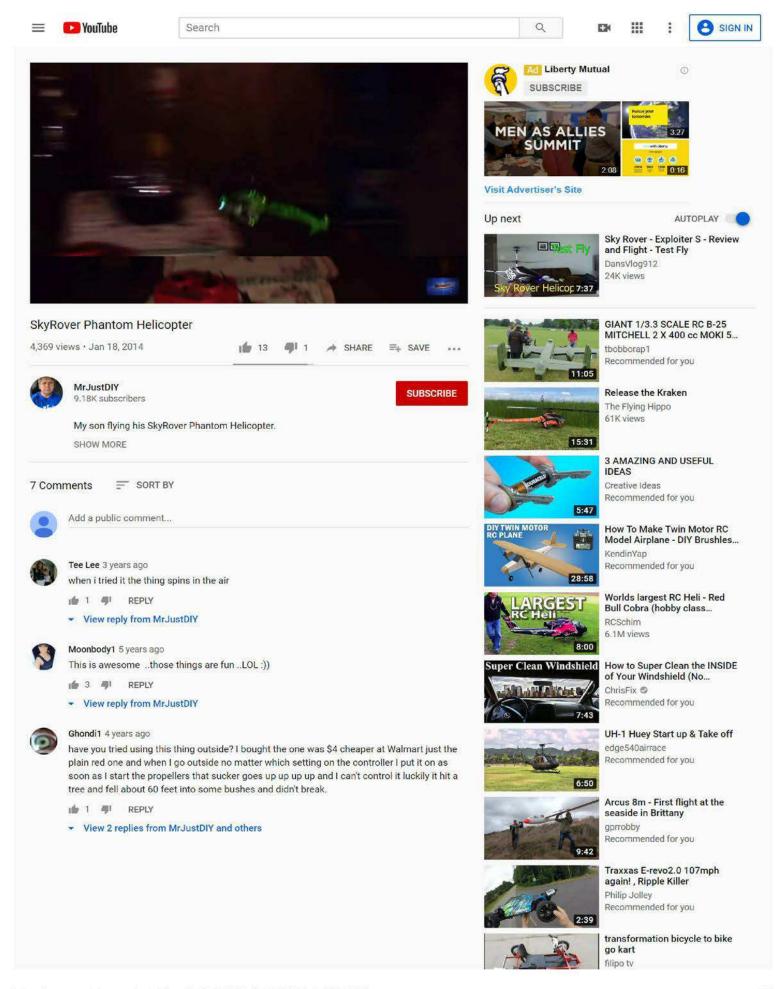
ESTTA1233283

Filing date:

09/01/2022

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding no.	91227510
Party	Defendant DJI GmbH
Correspondence address	B BRETT HEAVNER FINNEGAN HENDERSON FARABOW ET AL 901 NEW YORK AVENUE NW WASHINGTON, DC 20001-4413 UNITED STATES Primary email: docketing@finnegan.com Secondary email(s): b.brett.heavner@finnegan.com, doug.rettew@finnegan.com, TTAB-Legal-Assistants@finnegan.com 202-408-4000
Submission	Defendant's Notice of Reliance
Filer's name	B. Brett Heavner
Filer's email	docketing@finnegan.com, b.brett.heavner@finnegan.com, doug.rettew@finnegan.com, TTAB-Legal-Assistants@finnegan.com
Signature	/B. Brett Heavner/
Date	09/01/2022
Attachments	DJI002292 - 2342.pdf(5626597 bytes ) DJI002346 - 2348.pdf(1166801 bytes ) DJI002357.pdf(6115484 bytes ) DJI002389 - 2436.pdf(5109820 bytes ) DJI002439 - 2480.pdf(5523020 bytes ) DJI002485 - 2530.pdf(5575950 bytes ) DJI002534 - 2592.pdf(5598644 bytes ) DJI002593 - 2645.pdf(5636886 bytes ) DJI002646 - 2696.pdf(5848723 bytes ) DJI002701 - 2731.pdf(4086344 bytes ) DJI002739 - 2769.pdf(5262452 bytes )







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Prime RC Review: Sky Rover **Exploiter S Helicopter** 

Prime RC



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the gun reviewer 23K views



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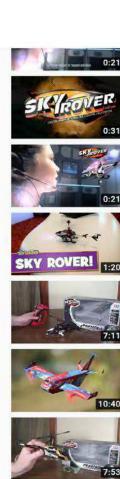
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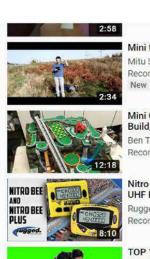
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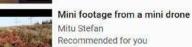
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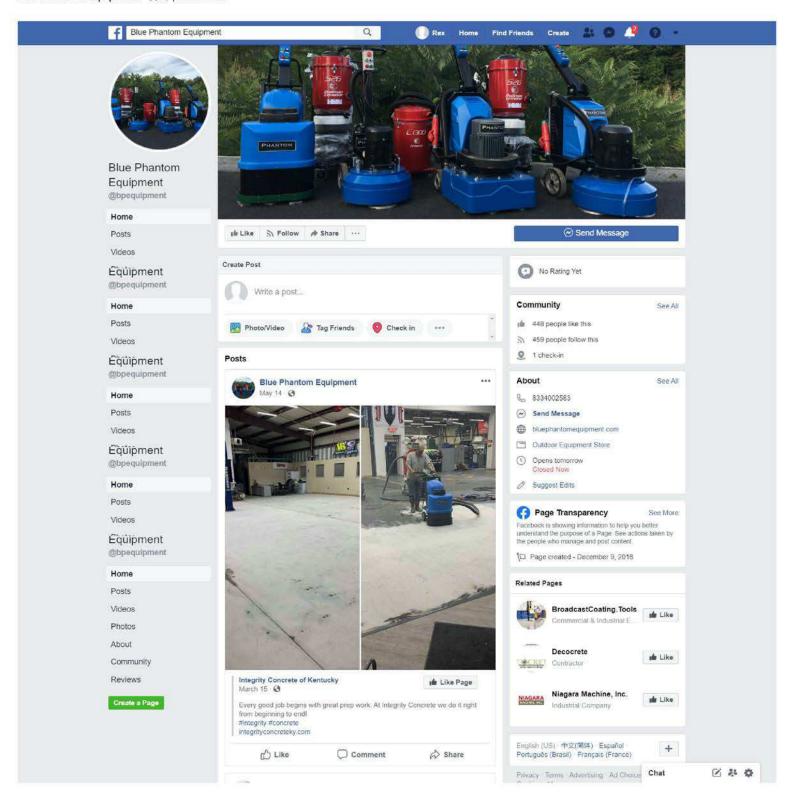
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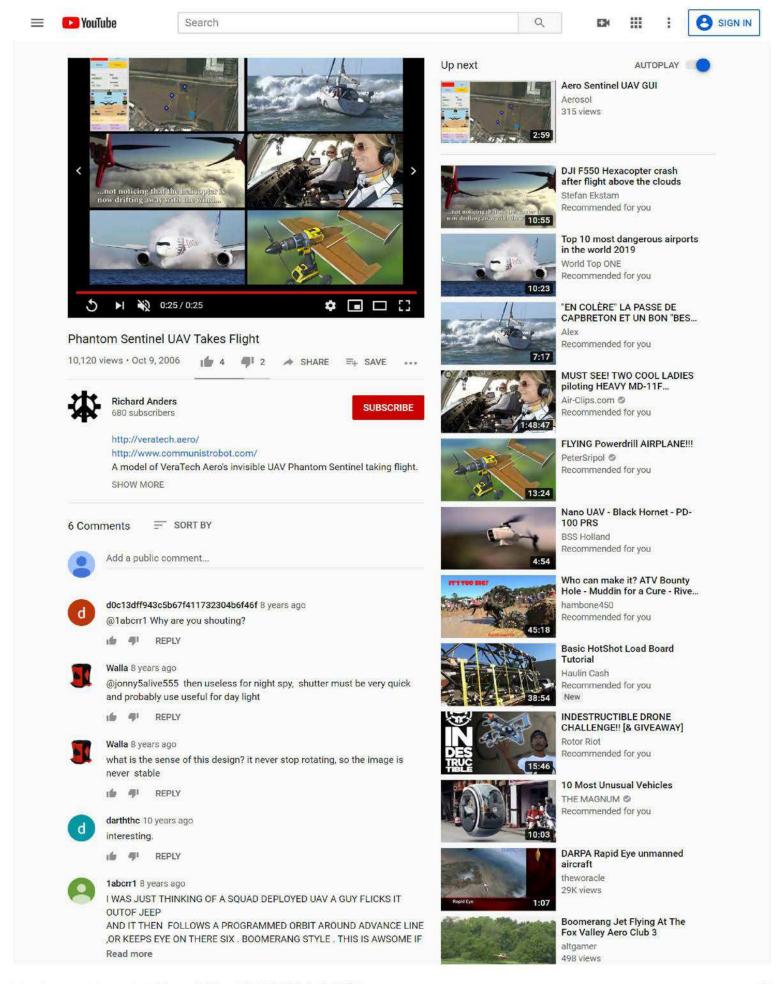
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1 母1 REPLY



darththe 11 years ago

well it flies... but what will you do with it? it seems adding any weight would through off it's rotational flight capabilities, it's rapid rotation makes it virtualy useless as an optics platform, and i would guess the same would apply to audio, so you have a unique flight device, but to what application Read more

A REPLY



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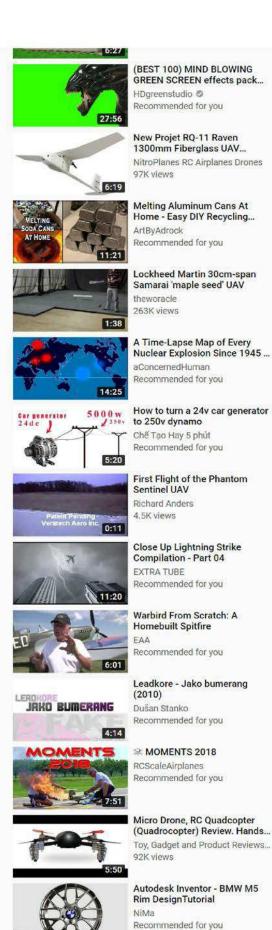
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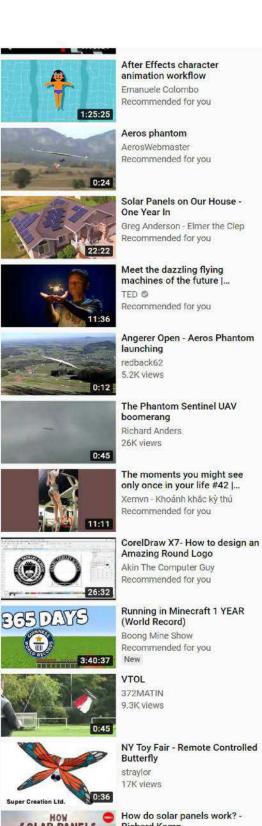


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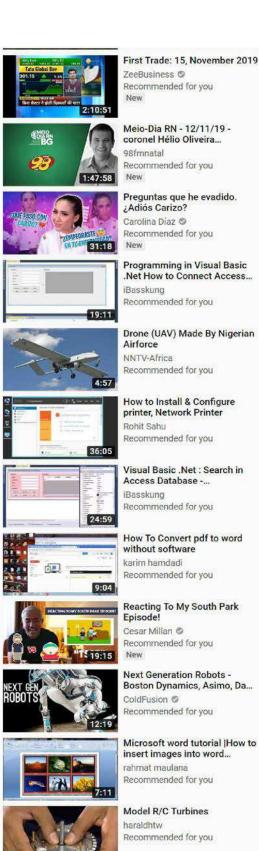
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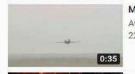
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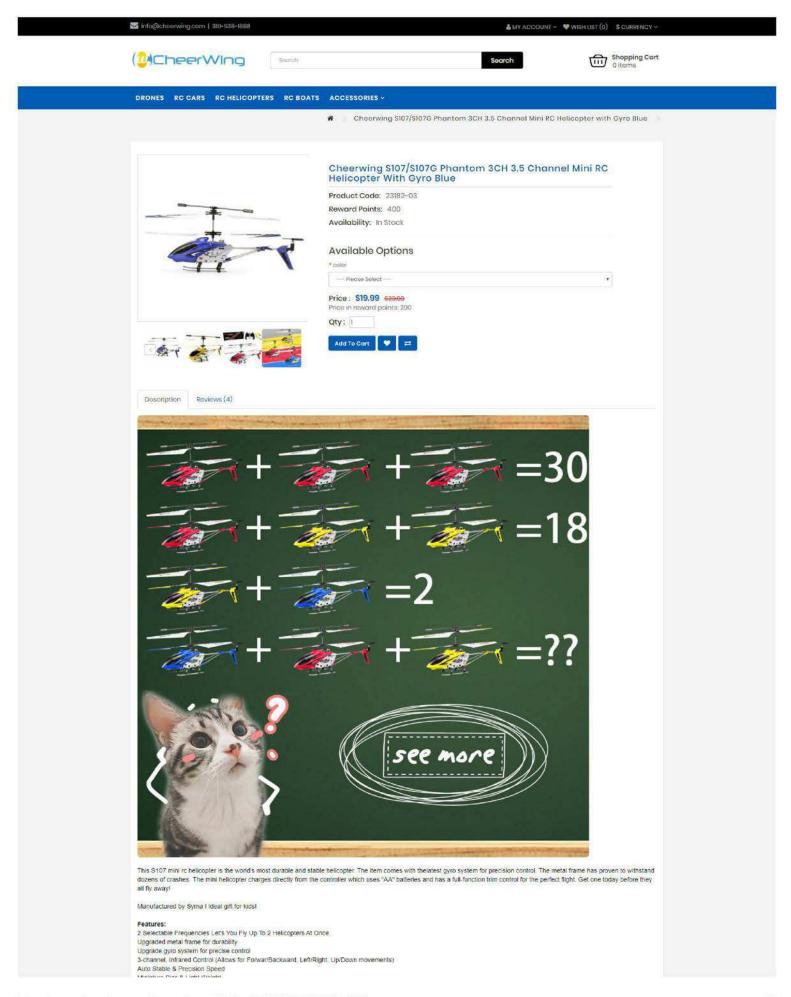
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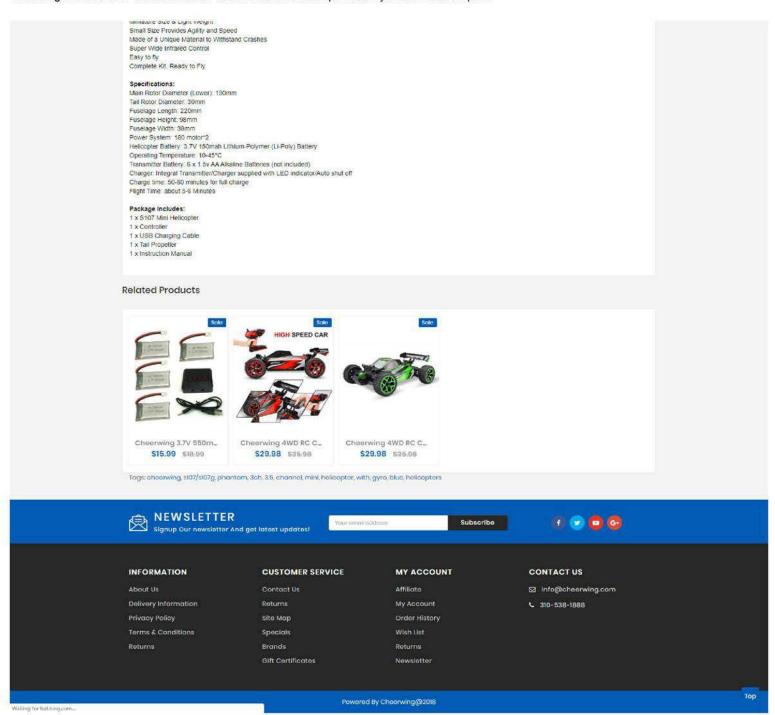
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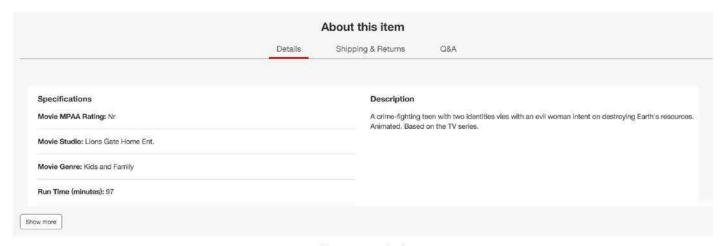
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# Company Snapshot

THE PHANTOM TOUCH LLC

USDOT Number: 2371382

# ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

Carriers: If you would like to update the following ID/Operations information, please complete and submit form MCS-150 which can be obtained online or from your State FMCSA office. If you would like to challenge the accuracy of your company's safety data, you can do so using FMCSA's DataQs system.

# Other Information for this Carrier

- **▼ SMS Results**
- ▼ Licensing & Insurance

Carrier and other users: FMCSA provides the Company Safety Profile (CSP) to motor carriers and the general public interested in obtaining greater detail on a particular motor carrier's safety performance then what is captured in the Company Snapshot. To obtain a CSP please visit the <a href="CSP">CSP</a> order page or call (800)832-5660 or (703)280-4001 (Fee Required).

For help on the explanation of individual data fields, click on any field name or for help of a general nature go to SAFER General Help.

The information below reflects the content of the FMCSA management information systems as of 11/19/2019. Carrier Registration Information Outdated. Carrier VMT Outdated.

Entity Type:	CARRIER				
Operating Status:	ACTIVE		Out of S	ervice Date:	None
<u>Legal Name:</u>	THE PHANTOM TOUCH L	LC			
DBA Name:					
Physical Address:	9557 OLDE POND LANE TWINSBURG, OH 44087				
Phone:	(216) 904-1097				
Mailing Address:	9557 OLDE POND LANE TWINSBURG, OH 44087				
USDOT Number:	2371382		State Carrier	ID Number:	
MC/MX/FF Number(s):			DUI	NS Number:	-
Power Units:	1			Drivers:	3
MCS-150 Form Date:	01/18/2013		MCS-150 Mile	eage (Year):	
Operation Classification:		-			
Carrier Operation:	Private(Property) Priv. Pass. (Business)  Interstate	Migrant U.S. Mail Fed. Gov Intrastat (HM)	l 't	Indian Nat	Only
Cargo Carried;		more sense sense		11342	
Ge	eneral Freight	Liquids/Ga	ases	Chemic	als
Ho	ousehold Goods	Intermoda			dities Dry Bulk
Me	etal: sheets, coils,	X Passenge			rated Food
550	otor Vehicles	Oilfield Eq	luipment	Beveraç	
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Lo Lu Bu Mi Mi	ings, Poles, Beams, imber uilding Materials obile Homes achinery, Large ojects	Coal/Coke Meat Garbage/F US Mail	)	45,400,000	ction

# ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

US Inspection results for 24 months prior to: 11/19/2019

Total Inspections: 0
Total IEP Inspections: 0

Note: Total inspections may be less than the sum of vehicle, driver, and hazmat inspections. Go to Inspections Help for further information.

		Inspections:		
Inspection Type	Vehicle	Driver	Hazmat	IEP
Inspections	0	0	0	0
Out of Service	0	0	0	0
Out of Service %	0%	0%	0%	0%
Nat'l Average % (2009- 2010)	20.72%	5.51%	4.50%	N/A

#### Crashes reported to FMCSA by states for 24 months prior to: 11/19/2019

Note: Crashes listed represent a motor carrier's involvement in reportable crashes, without any determination as to responsibility.

		Crashes:		
Туре	Fatal	Injury	Tow	Total
Crashes	0	0	0	0

# ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

#### Canadian Inspection results for 24 months prior to: 11/19/2019

Total inspections: 0

Note: Total inspections may be less than the sum of vehicle and driver inspections. Go to Inspections Help for further information.

Inspection Type	Vehicle	Driver
Inspections	0	0
Out of Service	0	0
Out of Service %	0%	0%

#### Crashes results for 24 months prior to: 11/19/2019

Note: Crashes listed represent a motor carrier's involvement in reportable crashes, without any determination as to responsibility.

		Crashes:		
Туре	Fatal	Injury	Tow	Total
Crashes	0	0	0	0

## ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

The Federal safety rating does not necessarily reflect the safety of the carrier when operating in intrastate commerce.

Carrier Safety Rating:

## The rating below is current as of: 11/19/2019

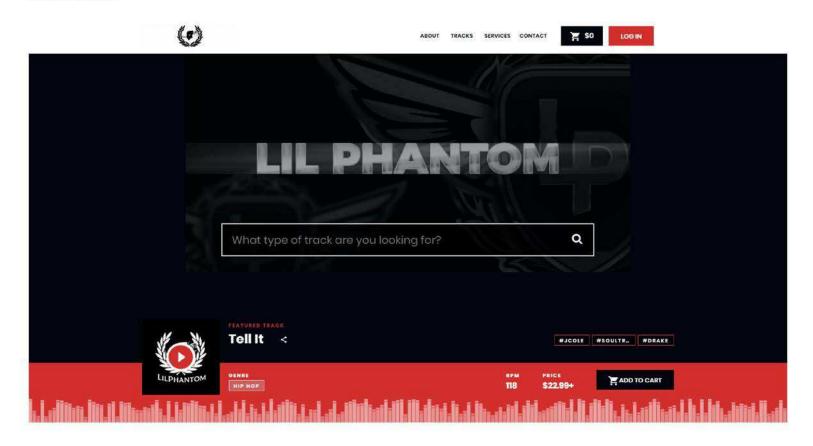
#### **Review Information:**

Rating Date:	None	Review Date:	None	
Rating:	None	Type:	None	



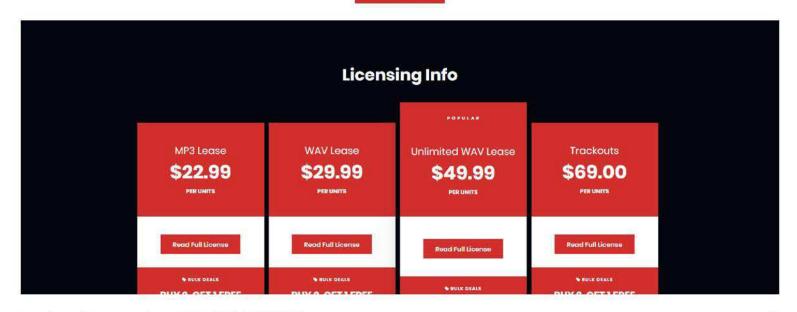
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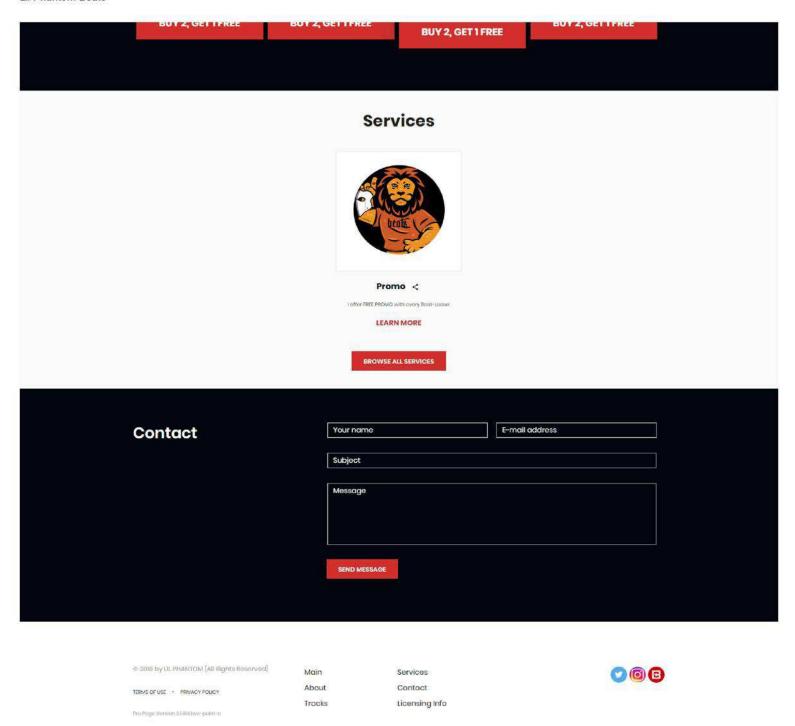
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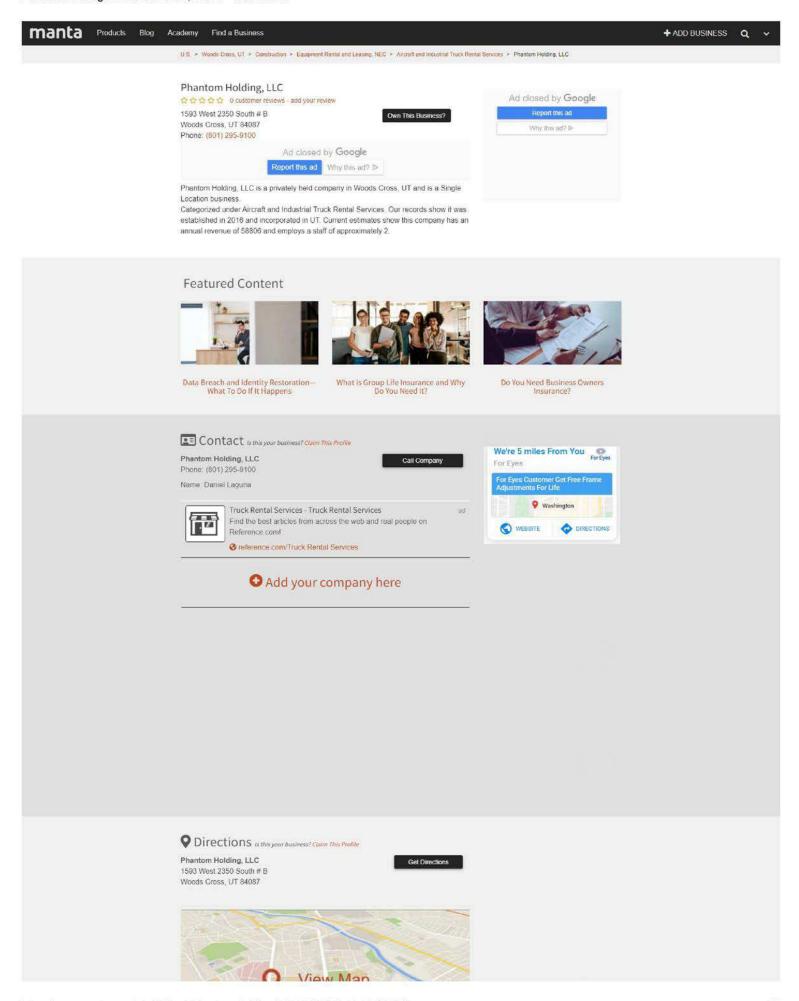


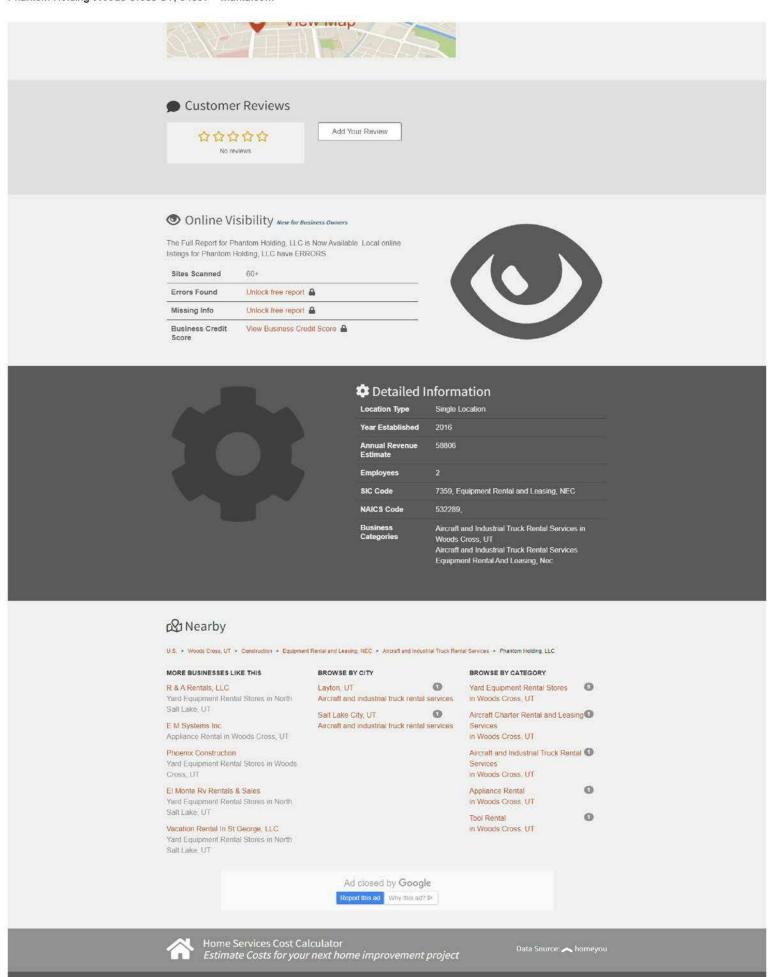


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# Aveo Phantom Light Sport Aircraft - Australia





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Pratt & Whitney

The Aveo Phantom is a light sport aircraft (LAS) category aeroplane designed and developed by Aveo Australia and manufactured by Aveo Engineering, with pilot comfort and safety as priority.

The aircraft is wider than most small to medium cars. The seats are fore and aft, up and down adjustable. It also has adjustable pedals and head restraints. All the control instruments fall easily to hand without stretching or contortion.

The company claims that the absence of door handles, key locks and antennae outside makes the Phantom unique. The aircraft is opened using built-in electronic systems.

The pilot and passenger can not only see frontwards and rearwards but they also straight up, through the roof and straight down, through the floor.

"The Aveo Phantom is a light sport aircraft (LAS) category aeroplane." The fuselage skin is made of carbon fibre, which is attached to the airframe using a system that keeps the outer surface free from blemishes.

A ballistic parachute system is included in all Aveo aircraft to withstand the forces imposed on an airframe by the deployment of a ballistic

parachute.

# Phantom features

The Phantom's distinguishing features include the AveoAutoFly autopilot and AveoEyeFly head-up display. The AveoBlackBox flight data recorder will work with the AveoTimeTunnel to provide all flight data to a thumb drive so that all aspects of flight can be later examined for training and monitoring purposes.

The wings are made of aluminium alloy with the skins attached by flush riveting. The Phantom's wings will have twice as many ribs as other light aircraft types. Antennae and sensors are installed inside the wingtip to avoid any visual or airflow disturbance to the aircraft.

# Digital flight deck

## Aveo Phantom Light Sport Aircraft - Australia - Aerospace Technology

The Aveo digital right deck (DED) uses daying its viewable IXD screens for depicting an performance and operational information. DFD is very simple and light with depth of about 36mm sharing data amongst themselves as required by the systems or set by the pilot.

The DFD instruments also comprise functions of electro-mechanical instruments. DFD instruments will also be available for installation on other aircraft types.

#### SmartYoke

SmartYoke helps to control the aircraft systems from the yoke itself. The SmartYoke has an LCD touch screen with six buttons on it.

"The Phantom's distinguishing features include the AveoAutoFly autopilot and AveoEyeFly head-up display." Button one sets all radio and navigation systems (including GPS) to the home aerodrome with a single touch. Button two pops up a list of the top ten GPS waypoints for direct to navigation. The nearest airport waypoint is also displayed giving the pilot the closest runway should an emergency landing be required.

Button three shows a list of lights like landing, strobe, courtesy, taxi and map. Button four displays a list of phone numbers allowing the pilot to make calls from the plane. Button five pops up a brightness control for all DFD screens

and button six brings up customisable checklists.

Pilots who prefer a 'joystick' model control can go for the AveoSmartStick which provides the buttons present on the SmartYoke on a ring.

#### Capacity

The Aveo Phantom has a maximum all-up weight (MAUW) of 600kg and an empty weight of 290kg in standard form.

#### Engine

The engine selected for Phantom light aircraft is UL260i FADEC (full authority digital engine control), which provides fully electronic variable timing ignition and multipoint fuel injection. The direct-drive, low-rpm engine increases safety and reduces pilot workload through true single lever control. The UL260i eliminates the worries of icing problems, manual choke, leaning, intake air heating and the resulting power loss.

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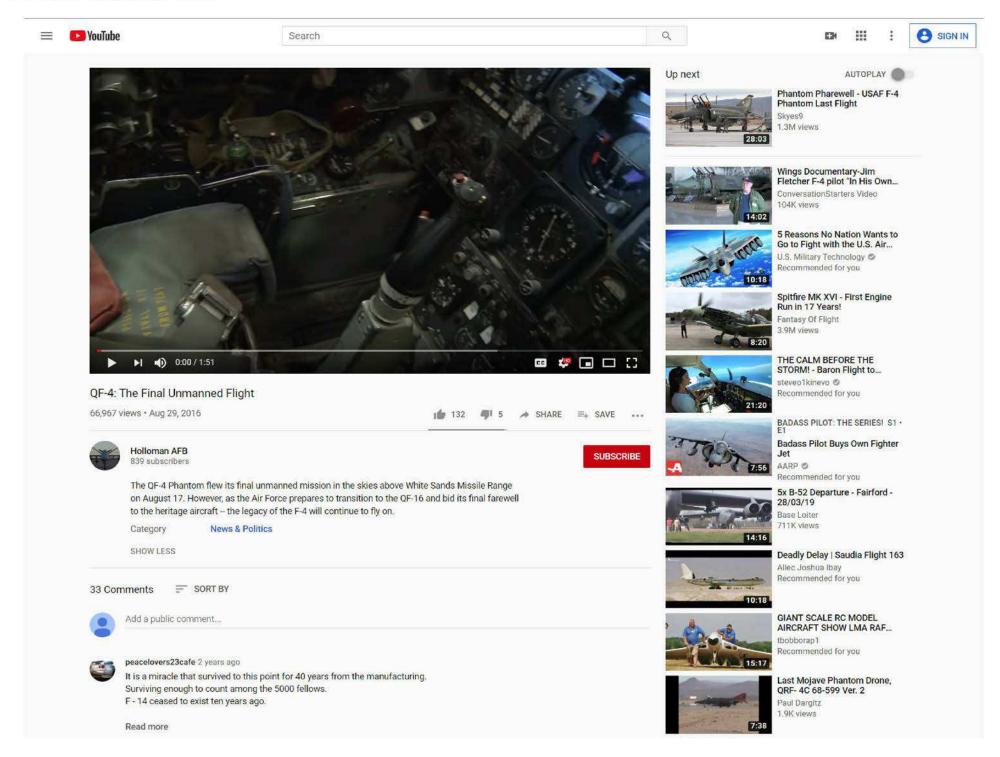
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ToonandBBfan 6 months ago

The good old F-4 Phantom - America's proof to the world that with enough thrust even a brick will fly.....

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# AVEO selects FADEC ULPower™ engine for Phantom light aircraft

AveoEngineering, the manufacturer of the AveoPhantom™ sport aircraft and DigitalFilightDeck™ touchscreen avionics suite, announces the selection of its launch engine for both the Phantom and Shadow aircraft. Partnering with UL Power Aero Engines of Beigium, Aveo has moved a generation ahead with the integration of this FADEC (Full Authority Digital Engine Control), providing fully electronic variable timing ignitino and multipoint fuel injection. The direct drive, low rpm engine increases safety and reduces pilot workload through true single lever control. The UL260i eliminates the worries you often have with a carburettor: manual choke and leaning, dangerous icing problems, intake air heating and the resulting power loss, these are all things of the past. Just press the start button and enjoy flying!

AVEO has integrated this engine of the future to its own DigitalFlightDeck™, specifically to the AveoEngineer™ touchscreen digital powerplant monitoring system, and its exclusive AveoFliteControl™ aircraft master control module. AVEO is ready to introduce pilots to the cockpit of the future, designed around safety and efficiency, not complexity.

Press release issued by AveoEngineering s.r.o. on March 27, 2008

Contact details from our directory:

AveoEngineering s.r.o. Final Assembly, Aircraft Exterior Lighting Systems, Airframer

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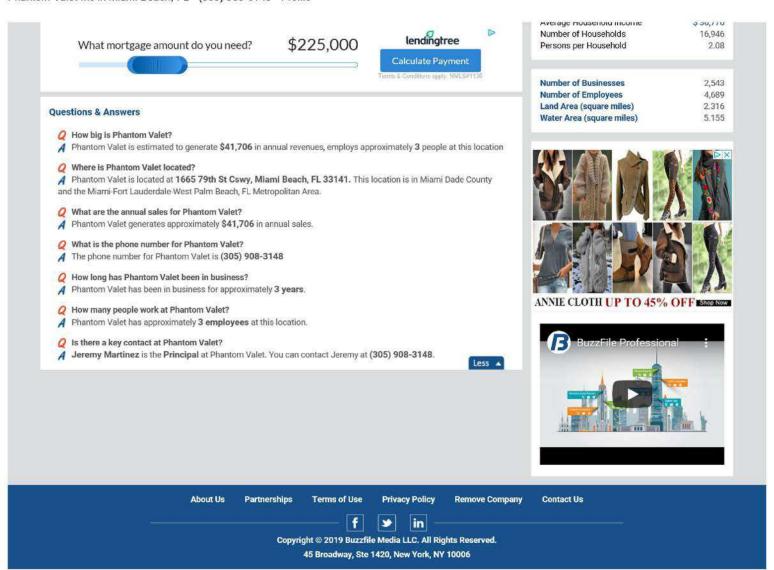
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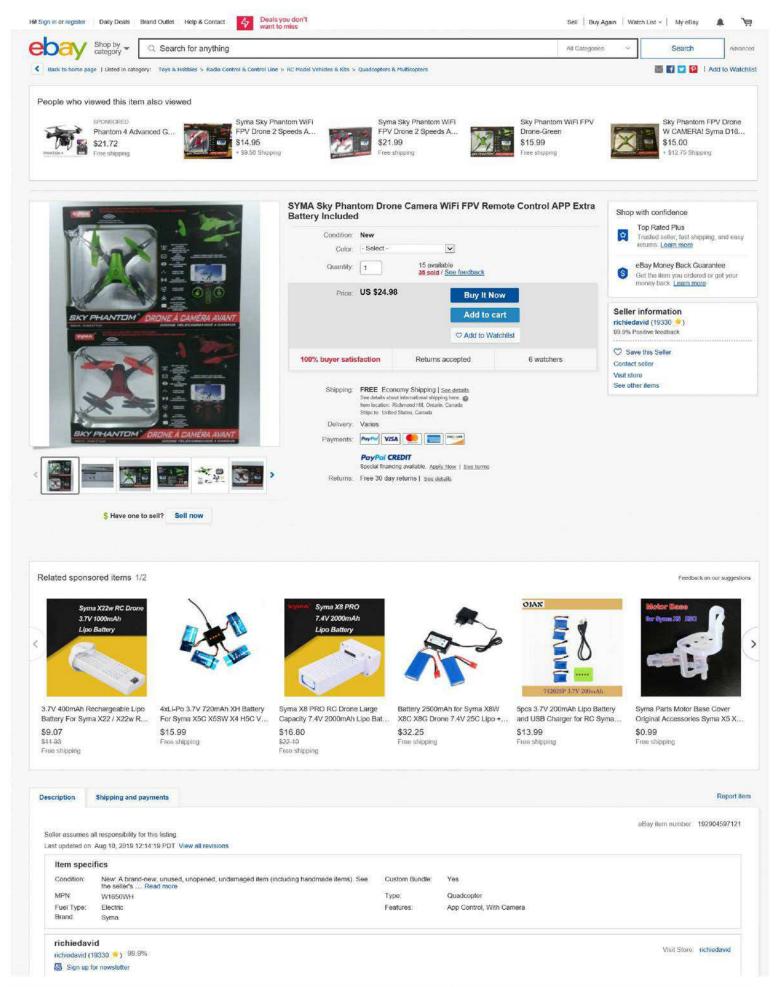
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#### SYMA Sky Phantom Drone Camera WiFi FPV Remote Control APP Extra Battery Included

# \*\*\* Fast Shipping & Professional Packing \*\*\*

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  Continental states ONLY. Estimated Delivery time is about 3-7
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- Most orders will be shipped within one business day once a cleared payment is received.





Connect the Syma Sky Phantom FPV Drone 4 CH Remote Control Drone, Red, to a smart phone to take flight. This Sky Phantom FPV Drone controlled left joystick, right joystick allows this drone easy trimming, 360 degrees flip, short press for auto take-off and landing, flight speed, headless mode. Product Details: One Key Take-off / Landing, APP Control, FPV, Flight Plan, WiF1 Transmission, Stunt Flips, 2.4GHz Radio Control. and 2 Speeds.

Includes: Sky Phantom FPV Drone 2.4GHZ Radio Control-4 Channel Remote Control Drone, 2 Lipo Batteries. 4 AA Batteries Required (not included). Smart Phone NOT included. Ages 14+ years.

## Specifications

Brand	Syma Sky Phantom
Manufacturer Part Number	D1650WH
Color	Green or Red
Age Range	14 years +
Assembled Product Dimensions (L x W x H)	7.00 x 7.00 x 1.00 inches

#### Business seller information

Value Added Tax Number: CA nullnull

fler receiving the item, contact seller within	Refund will be given as	Return shipping
0 days	Money back or replacement (buyer's choice)	Seller pays for return shipping

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Sky Phantom WiFi FPV Drone-Green

\$15.99 Free shipping Seller 99.1% positive



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Drone-Green



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SYMA Sky Phantom Drone Camera WiFi FPV Remote Control A... \$12.00

\$39.60



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Freedback on our suggestions

Syma Sky Phantom FPV Drone 2 Speeds, App, 4 CH Remote Cont... \$19.99

Back to home page

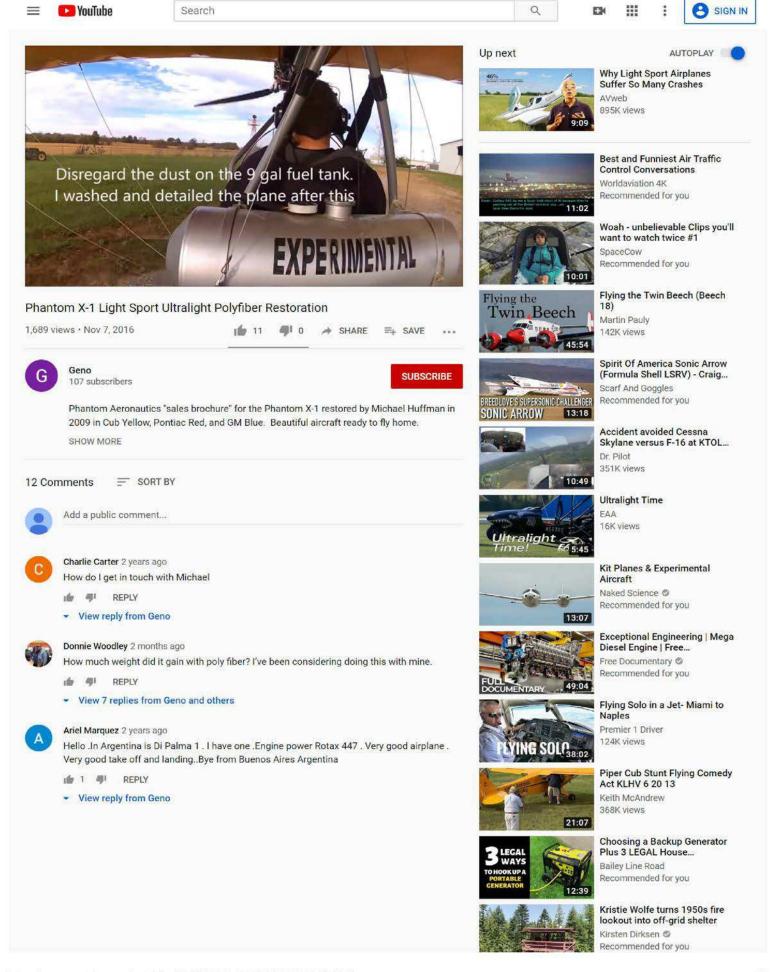
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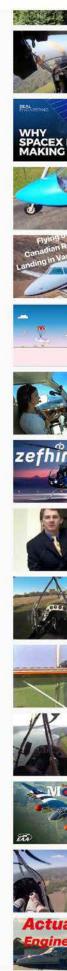
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34:28 Backyard Flyer - Come fly with

jimiorezzoli 134K views



Recommended for you PACEX IS AKING STAR 15:41

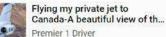
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13:44

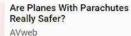
21:20

## Walkaround of Phantom X-1 **ELSA Ultralight**

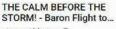
Geno 7.9K views



366K views



Recommended for you



steveo1kinevo @ Recommended for you

Curti Zefhir - an ultralight cutie Skyships Eng 158K views

Don't Talk to Cops, Part 1 MP Anon Recommended for you

Phantom/Spitfire Stepchild brody334

2.3K views

A Beginner's Guide To Ultralight Flying Brian FitzGerald 529K views

Phantom Ultralight flight with Friends

brody334 2.9K views

Rod Lewis' de Havilland Mosquito EAA 77K views

Phantom Ultralight - First Flight in New Plane Capt Bob

5.2K views

ACTUAL DUAL ENGINE **FAILURE IN A CITATION JET** 

Baron Pilot 216K views





Phantom aerobatics inverted spins, loops, rolls, and stalls Kyle Mantei 5.4K views



Phantom playing around Dave Kester 332 views



Phantom for sale in PA part 1 Brandon Gallan 634 views



EAA Ultralight Day 2017 EAA 21K views



Phantom Ultralight Low and Slow Bryan Land 2.2K views



Phantom X-1 Crow hops ESPlane Crazy 421 views



Ultralight airplane flying, Fisher 303.

Grant W 4.1K views



Crazy Ultralight flight above the clouds to low pass

Crazy Things 741 views



phantom video

tblsaci 34K views



First flight of the Phantom

sshelo1 144 views



Phantom X-1

Shane Hicks 8.2K views



Phantom X1E experimental lightsport aircraft

Light Sport and Ultralight Flyer 6.5K views



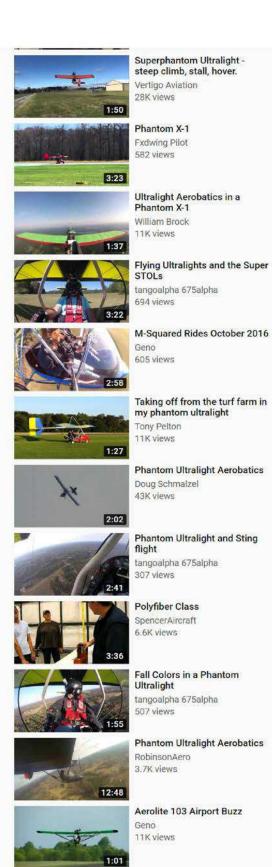
First aerobatics in phantom ultralight

Jacob Richards 1.2K views



W.U.F.I. Time and theraf.org in a Phantom Ultralight

tangoalpha 675alpha 481 views



Phantom X1 with 50 HP - 4

M-Square Low Clouds Dec.

Stroke Erik Pederson 11K views

2016 Geno 56 views



M-Squared Sport 1000 Feb. 11, 2017

Geno 281 views



Phantom X1E 6-3-16

Stanislaw K 895 views



**BIRTHDAY FLIGHT 2016** 

Bob Summers 349 views



Phantom X1 Ultralight

parachutepilot7 8K views



Donnie flying his new Phantom

Donnie Woodley 284 views



Ultralight Airplane Phantom x1

paraflieger60 2.4K views



Beta Sigma Phi Chapter Meeting Clinton, Missouri...

Geno 225 views



**REV 360 Virtual Flight** 

Larry Mednick 11K views 360°



short take off in a phantom UL

rotax powered

tom bramich 439 views



Evening run around NC27 in

the Phantom X1

Ben Proffit 386 views



Furry Vengeance

YouTube Movies @ 2010 - Comedy

Free with Ads



## The Graduate

YouTube Movies @ Comedy

Free with Ads



Return to Me

YouTube Movies @ 2000 · Romance

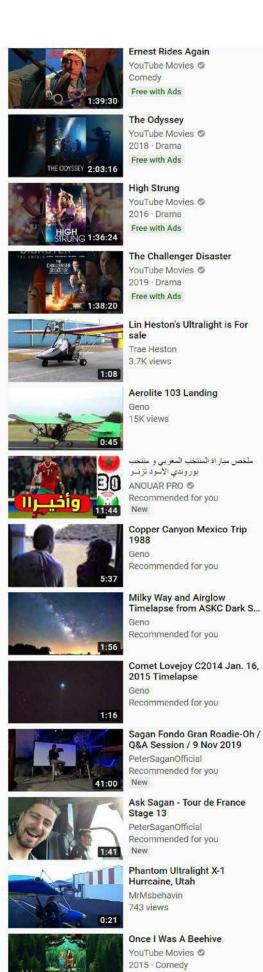
Free with Ads



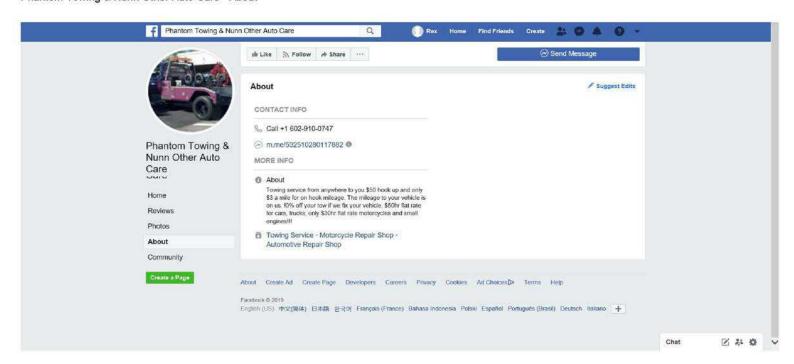
Her Best Move

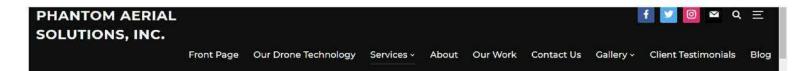
YouTube Movies @ 2007 - Comedy

Free with Ads



Free with Ads

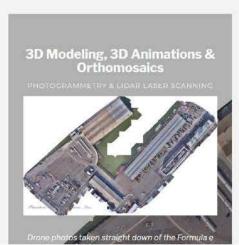


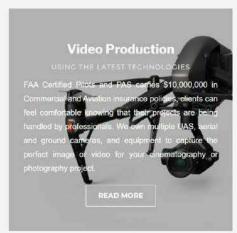


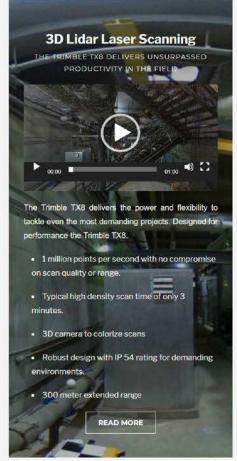
#### **SERVICES**

#### **OUR SERVICES**

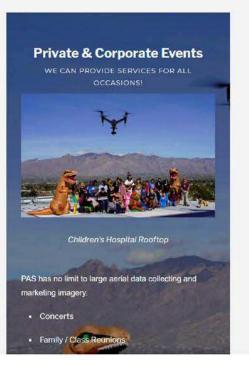


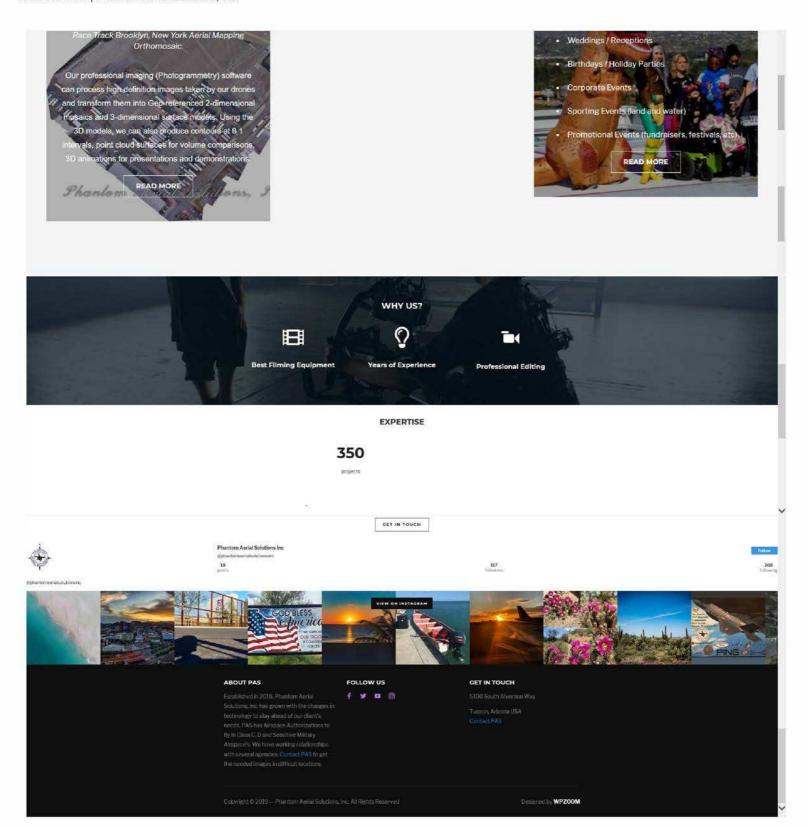




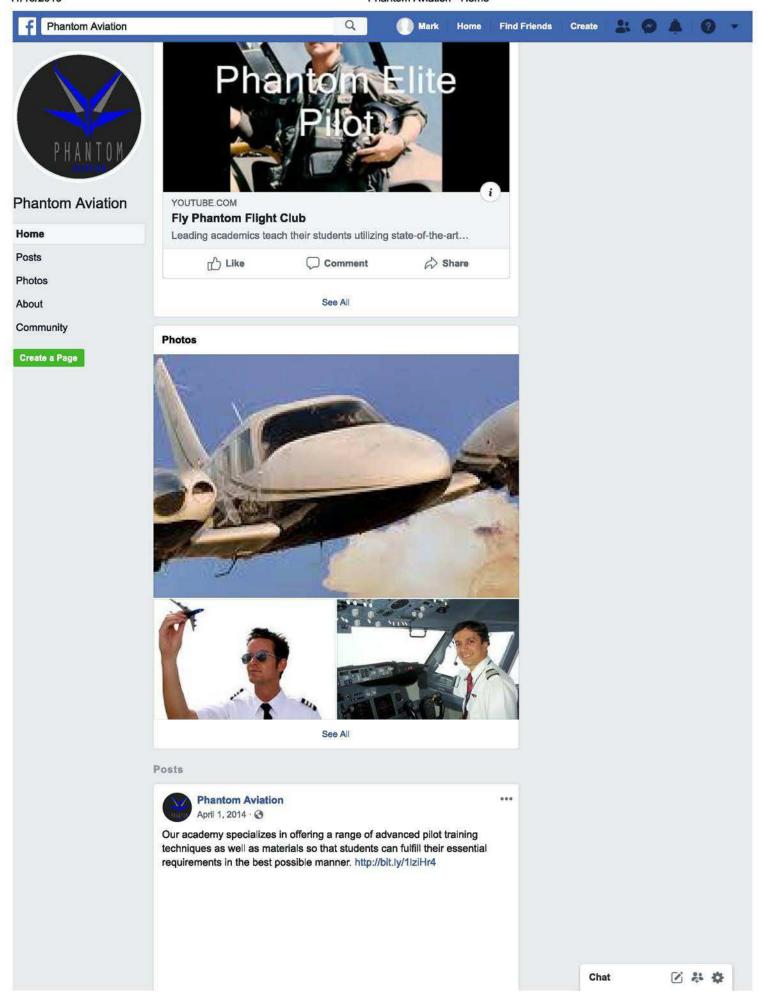


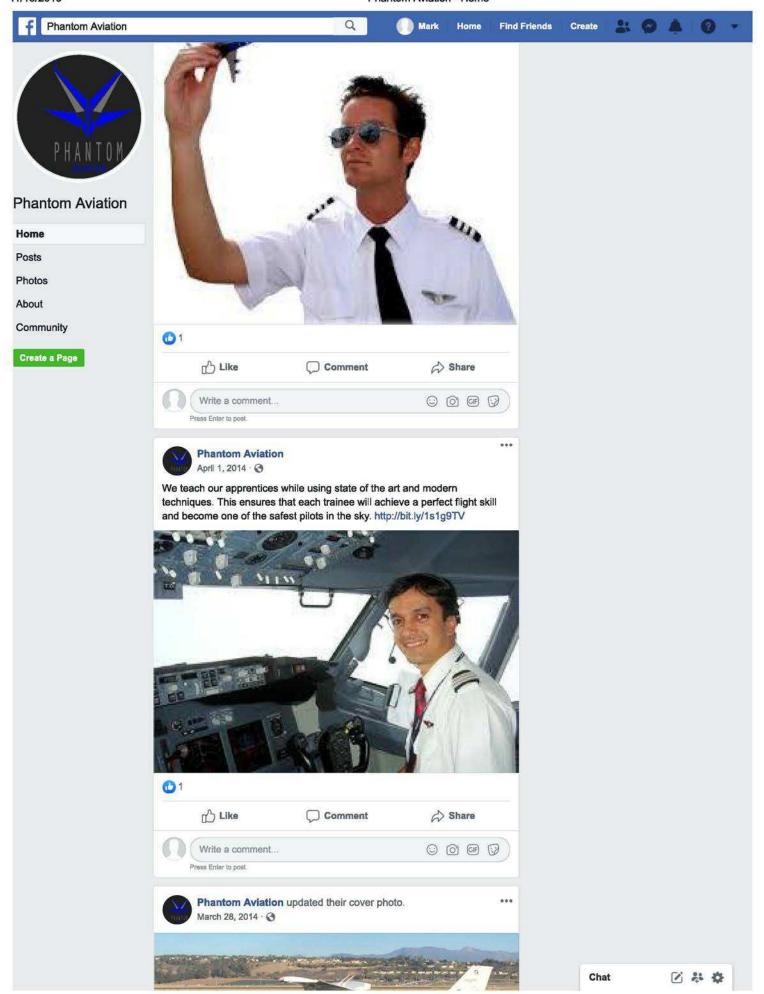


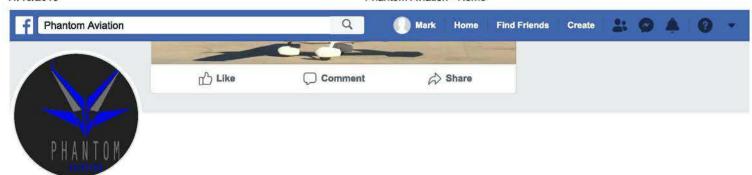












## **Phantom Aviation**

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## Ultralight Aircraft

Magazine, covering the world of Ultralight Aircraft

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#### Phantom Ultralight Aircraft by Phantom Aeronautics

#### Phantom X1 Ultralight.

Ultralight Aircraft Magazine - The Phantom X1 is a single place ultralight aircraft that was first introduced to the ultralight market at the EAA Sun N Fun Convention in 1982. The kit uses simple bolt and rivet together aluminum tube construction covered in Dacron sailcloth. Building times were reported to be in the hundred 250 are range.

The Phantom is a true three axis control ultralight aircraft, with a center mounted stick and left and throttle, in a tricycle gear configuration. It has suspension on the main wheels and has asked durable nose wheel. Power was originally supplied by the Rotax 377, 447 and 503 aircraft engines. The engine is mounted in a tractor configuration above the wing. The Original Phantoms were wire braced using a King post.

#### PhantomUltralight

Phantom Ultralights have been produced for over 35 years and are one of the most well known ultralights. The design is rugged and proven to be reliable and safe. Over the years several manufacturers have produced the Phantom, the current manufacturer is Phantom Aeronautics.

Subscribe to the

**Light Sport &** 

#### Phantom Ultralight Aircraft Specifications And Images

Phantom Single Seat Ultralight Aircraft Length: 16 ft 8 in (5.08 m) Wingspan: 28 ft 6 in (8.69 m) Height: 8 ft 2 in (2.49 m) Wing area: 142 sq ft (13.2 m2) Empty weight: 250 lb (113 kg) Gross weight: 510 lb (231 kg) Fuel capacity: 5 US Gallons (19 litres)
Powerplant: 1 × Rotax 447 twin-cylinder, single ignition, two-stroke aircraft engine, 40 hp (30 kW)

#### Performance Maximum speed: 61 mph (98 km/h; 53 kn) Cruise speed: 55 mph (48 kn; 89 km/h)

Stall speed: 26 mph (23 kn; 42 km/h) G limits: +9/-6.6 (ultimate), +6.6/-4.4 g (operational) Rate of climb: 800 ft/min (4.1 m/s) Wing loading: 3.59 lb/sq ft (17.5 kg/m2)

The X1 design was intended to have an empty weight under 254 lb (115 kg) to fit into the FAR Part 103 ultralight category. Modernized models of the single seater Phantom use struts in place of the original cable-bracing.

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Ultralight Aircraft Magazine - Welcome to the Ultralight Aircraft News our goal is to cover as many aircraft expositions that host aircraft described as ultralight direraft, light sport direraft, experimental light sport direraft, emateur built direraft, ELSA or homebuilt direraft that fit into the definition of ultralight direraft in Canada or light sport direraft, or experimental amateurbuilt light sport direraft in the United States.

These include three axis control aircraft, weight shift control aircraft, more commonly known as trikes, powered parachutes, helicopters, gyrocopters and powered para-aliders that meet the light sport or ultralight aircraft definition.

Airshows and aircraft expositions that we cover include, the Deland Sport Aviation Showcase, U.S. Sport Aviation Expo. Deland Sport Aviation Showcase E.A.A.'s Sun N.Fun, E.A.A.'s Airventure, the Midwest LSA Show, Copperstate, UPAC Convention and Aero Friedrichshafen in Germany. We try to regularly attend regional shows like the Arlington Fly-In, and Rocky Mountain Fly-In.

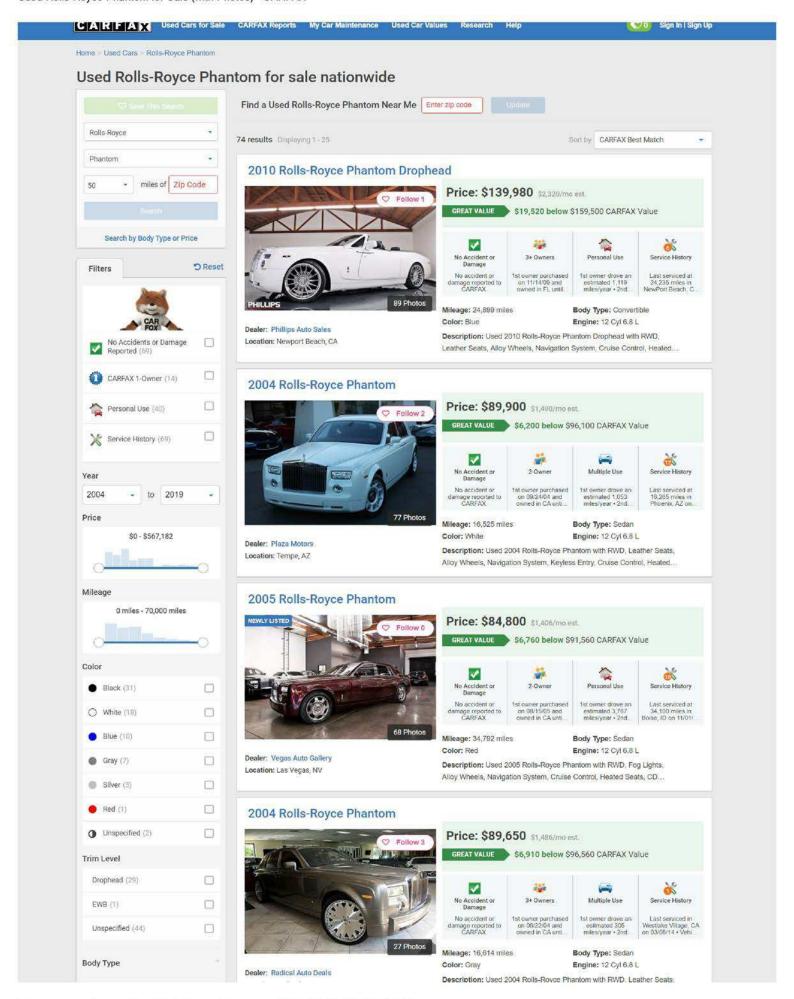
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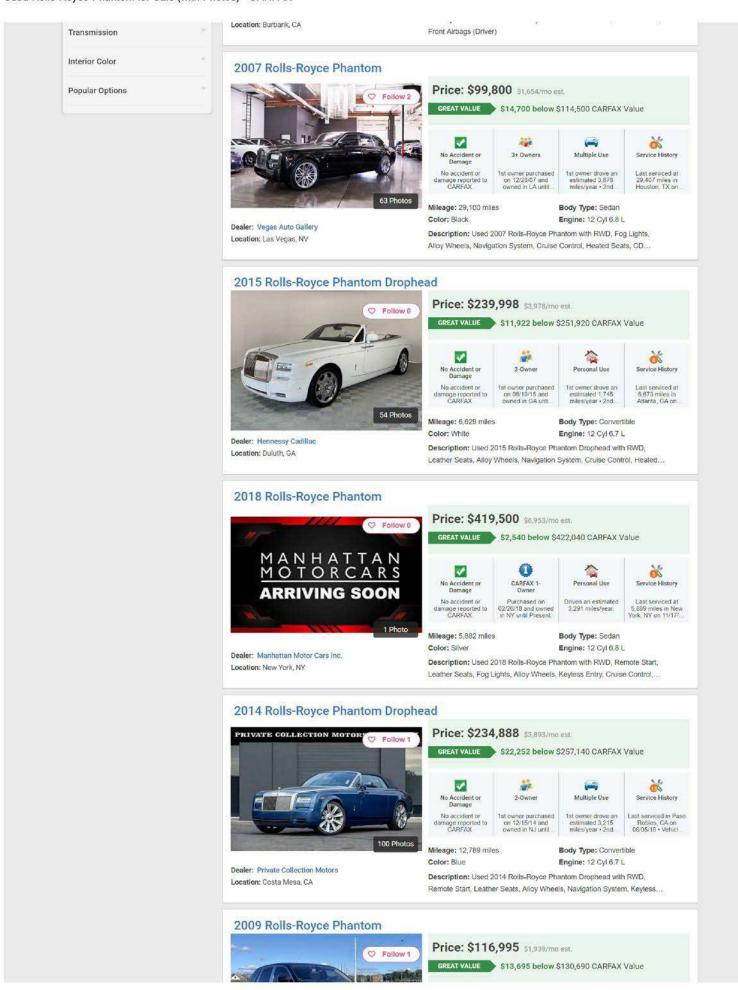
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Dealer: Baron Auto Emporium Location: Roslyn Heights, NY



3+ Owners No accident or amage reported to CARFAX 1st owner purchased on 04/28/09 and owned in MT unti...

Multiple Use

Body Type: Sedan

Engine: 12 Cyl 6.8 L

Service History Last serviced at 21,915 miles in Moraine, OH on.

Description: Used 2009 Rolls-Royce Phantom with RWD, Fog Lights, Power Sun/Moonroof, Alloy Wheels, Navigation System, Cruise Control,...





Dealer: Jake's Motorcars Location: San Diego, CA



Mileage: 11,841 miles Body Type: Convertible Engine: 12 Cyl 6.7 L Color: Black

Description: Used 2015 Roils-Royce Phantom Drophead with RWD, Alloy Wheels, DVD

### 2013 Rolls-Royce Phantom Drophead



Dealer: Mint Motorcars, Inc. Location: Fort Lauderdale, FL



Body Type: Convertible

Color: White Engine: 12 Cyl 6.7 L Description: Used 2013 Rolls-Royce Phantom Drophead with RWD, Leather Seats, Alloy Wheels, Navigation System, Keyless Entry, Heated...

Mileage: 5,484 miles

## 2016 Rolls-Royce Phantom Drophead



Dealer: Braman Miami Location: Miami El



Mileage: 2,635 miles Body Type: Convertible Color: Blue Engine: 12 Cyl 6.7 L

Description: Used 2016 Rolls-Royce Phantom Drophead with RWD, Remote Start, Leather Seats, Alloy Wheels, Navigation System, Keyless...

## 2015 Rolls-Royce Phantom Drophead



Dagler: Auto Holding - Mountain Lakes



Color: White

Engine: 12 Cyl 6.7 L

Location: Mountain Lakes, NJ

Description: Used 2015 Rolls-Royce Phantom Drophead with RWD, Remote Start, Leather Seats, Alloy Wheels, Navigation System, Keyless...

#### 2018 Rolls-Royce Phantom



Dealer: Braman Motorcars of Palm Beach Location: West Palm Beach, FL

## Price: \$499,999









Last serviced in West Palm Beach, FL on 09/10/19 • Vehicl

Mileage: 5,283 miles Body Type: Sedan Color: Black Engine: 12 Cyl 6.8 L

Description: Used 2018 Rolls-Royce Phantom with RWD, Fog Lights, Alloy Wheels, Navigation System, Heated Seats, Rear-View Camera, DV...

## 2007 Rolls-Royce Phantom



Dealer: Mint Motorcars, Inc. Location: Fort Lauderdale, FL

## Price: \$109,985 \$1,823/mo est.

GOOD VALUE \$2,745 below \$112,730 CARFAX Value









Mileage: 20,594 miles Color: Blue

Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2007 Rolls-Royce Phantom with RWD, Leather Seats. Fog Lights, Alloy Wheels, Navigation System, Keyless Entry, Heated...

## 2018 Rolls-Royce Phantom



Dealer: Braman Motorcars of Palm Beach Location: West Palm Beach, FL

#### Price: \$499,820



CARFAX 1-Owner



Mileage: 2,335 miles Color: Black

Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2018 Rolls-Royce Phantom with RWD, Fog Lights, Alloy Wheels, Navigation System, Heated Seats, Rear-View Camera, DV...

#### 2010 Rolls-Royce Phantom Drophead



Dealer: Fields Motorcars Orlando Location: Orlando, FL

## Price: \$149,988 \$2,486/mo est.







2-Owner





Mileage: 34,827 miles Color: White

Body Type: Convertible Engine: 12 Cyl 6.8 L

## 2007 Rolls-Royce Phantom



Price: \$122,900 \$2,037/mo est.



Dealer: Tactical Fleet Location: Addison, TX

2-Owner

Personal Use

Service History

Mileage: 15,375 miles Body Type: Sedan Color: White Engine: 12 Cyl 6.8 L Description: Used 2007 Rolls-Royce Phantom with RWD, Power

Sun/Moonroof, Alloy Wheels, Front Airbags (Driver)

#### 2004 Rolls-Royce Phantom



Dealer: Hollywood Kia Location: Hollywood, FL

## Price: \$79,900 \$1,324/mo est.

GREAT VALUE \$16,840 below \$96,740 CARFAX Value



on 10/06/04 and owned in FL until

Multiple Use estimated 981 miles/year • 2nd.

Mileage: 15,377 miles Color: Gray

\*

No Accident or Damage No accident or

> Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2004 Rolls-Royce Phantom with RWD, Remote Start, Leather Seats, Fog Lights, Navigation System, Cruise Control, Heated...

## 2005 Rolls-Royce Phantom



Dealer: Select Luxury Cars Location: Marietta, GA

#### Price: \$82,900 \$1,374/mo est.

> \$4,790 above \$78,110 CARFAX Value



CARFAX 1-

Mileage: 58,297 miles Color: Black

Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2005 Rolls-Royce Phantom with RWD, Fog Lights, Power Sun/Moonroof, Alloy Wheels, Navigation System, Cruise Control....

#### 2015 Rolls-Royce Phantom



Dealer: Tactical Fleet Location: Addison, TX

## Price: \$264,900 \$4,391/mo est.



damage reported to CARFAX

Service History

Mileage: 11,450 miles Color: White

Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2015 Rolls-Royce Phantom with RWD, Alloy Wheels, Rear-View Camera

## 2011 Rolls-Royce Phantom



Dealer: Manhattan Motor Cars Inc. Location: New York, NY

#### Price: \$158,500 \$2,627/mo est.

GREAT VALUE \$16,880 below \$175,380 CARFAX Value

CARFAX

2-Owner

Personal Use estimated 2,892 miles/year • 2nd

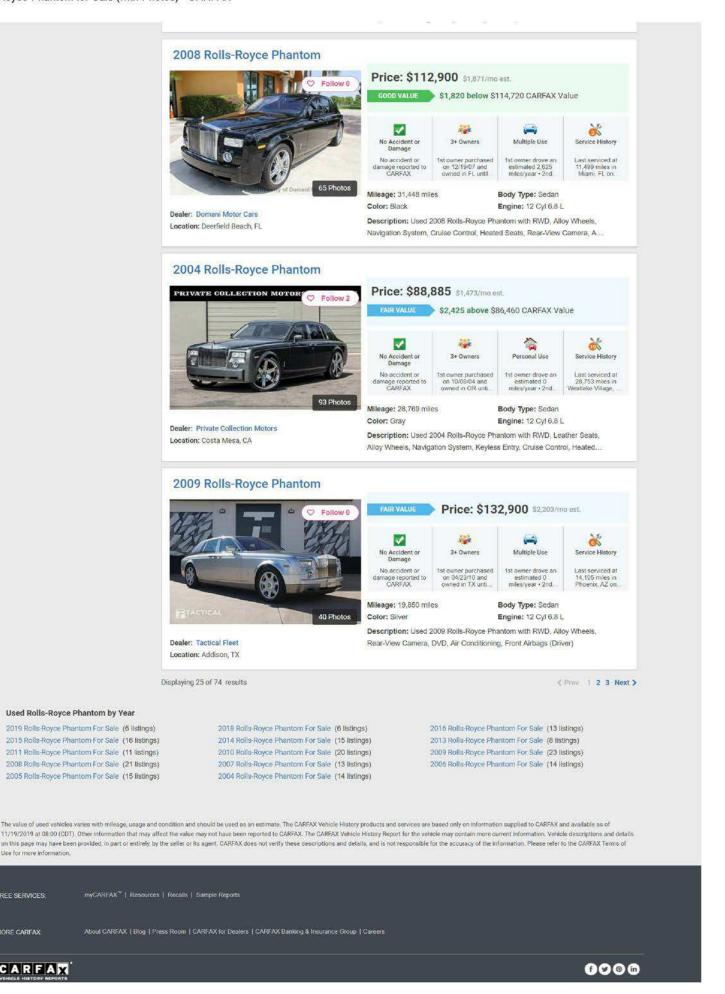
Service History Last serviced at 13,720 miles in Ne fork, NY on 08/08/

Mileage: 13,618 miles Color: White

\*

Body Type: Sedan Engine: 12 Cyl 6.8 L

Description: Used 2011 Rolls-Royce Phantom with RWD, Remote Start, Alloy Wheels, Navigation System, Keyless Entry, Cruise Control, Heated...



MORE CARFAX

CARFAX





Phantom

EGACY.

CD Series
CDB Series



Automatic
Chain Drive/Belt Drive
Garage Door

Operator System

Complete with CODEDODGER® Remote Control and SERIES II Electronics

Operator MUST be installed with the included SERIES II Wall Control!

As required by law

Self-diagnostic Electronic Sensory Protection System (SAFE-T-BEAM® SYSTEM) MUST Be Installed To Close Door!

# Owner's Manual SAVE FOR FUTURE REFERENCE

## Customer Service

CALL: 1.800.929.3667 OR VISIT WWW.OVERHEADDOOR.COM

AUTOMATIC GARAGE DOOR OPERATOR SYSTEMS
HANG MANUAL NEAR YOUR WALL CONTROL

## TABLE OF CONTENTS

SECT	TON	PAGE
SAFE	TY INFORMATION	2-4
PART	S IDENTIFICATION	5-6
ASSE	MBLY	
	OPERATOR ASSEMBLY 1A Channel and Power Head Assembly 1B Boom and Power Head Assembly	10
INSTA	ALLATION	
2	DETERMINE DOOR TYPE AND MOUNTING METHO 2A Installation on Track Guided Doors 2B Installation on Trackless Doors	12-14
3	SAFE-T-BEAM <sup>®</sup> (STB) SYSTEM INSTALLATION Self-diagnostic "STB" System Troubleshooting	18-19 g 19
4	WALL CONTROL INSTALLATION	20
5	CONNECT OPERATOR TO POWER	21
6	MAIN LIMIT SWITCH SETTINGS	22
OPER	RATION	
7	FORCE ADJUSTMENT	
8	FINE LIMIT SWITCH ADJUSTMENTS	24
9	REMOTE CONTROLS	24-25
10	BATTERY & VISOR CLIP INSTALLATION	25
11	LIGHT BULB AND LENS INSTALLATION	26
MAIN	TENANCE	27
TROU	IBLESHOOTING GUIDE	28
WIRIN	NG DIAGRAM	29
ACCE	ESSORIES	30
WAR	RANTY	32

## Things to consider if you are planning to "do-it-yourself."

Whether you are replacing an existing garage door operator or installing an operator in your garage for the first time, there are some pre-installation issues which need to be addressed. They are as follows:

The Overhead Door Corporation recommends that you read and fully understand all information and instructions contained herein before choosing a "Do-It-Yourself" installation. Any questions should be directed to the Overhead Door Corporation or an authorized Overhead Door Dealer.

(The issue numbers below refer to the circled numbers in the illustrations on page 3.)

Check your ceiling where the power head of your new unit will be mounted. Plan how you will be mounting the power head. It is possible that ceiling joists may not be in the exact position needed with respect to the garage door operator. In any case, it may be necessary to add an additional bracket and fasteners (not included with your new door operator kit).

You need a 110-120 Volt power supply available. If you plan to plug the unit into a standard electrical outlet, is one available? The outlet should be no more than about 3 feet from the power head once it is mounted. (The cord is 4 ft. in length.) SEE WARNING BELOW.

Check the wall directly above the garage door. The door operator's header bracket must be securely fastened to this wall. Insure that the structure will provide a strong mounting location.

To avoid damage to your door and/or operator, make sure you disable any door locks prior to installing your operator.

Check to see if the mounting location for the Safe-T-Beam® System (STB) is clear from obstruction and has a wood surface available for attaching the STB brackets. The brackets may also be attached to concrete if necessary but extra tools and special fasteners (not supplied) will be required.

Insure that your door is properly balanced and moving freely. SEE WARNING BELOW.

NOTE: 1-1/2" "STB" bracket adapters are available through your local Overhead Door Dealer.

Is your garage door made of light-weight steel, aluminum, fiberglass or glass panels? Additional support bracing must be added to these type doors. If this is the case, please contact the door distributor or manufacturer so that they can furnish you with a "bracing kit."

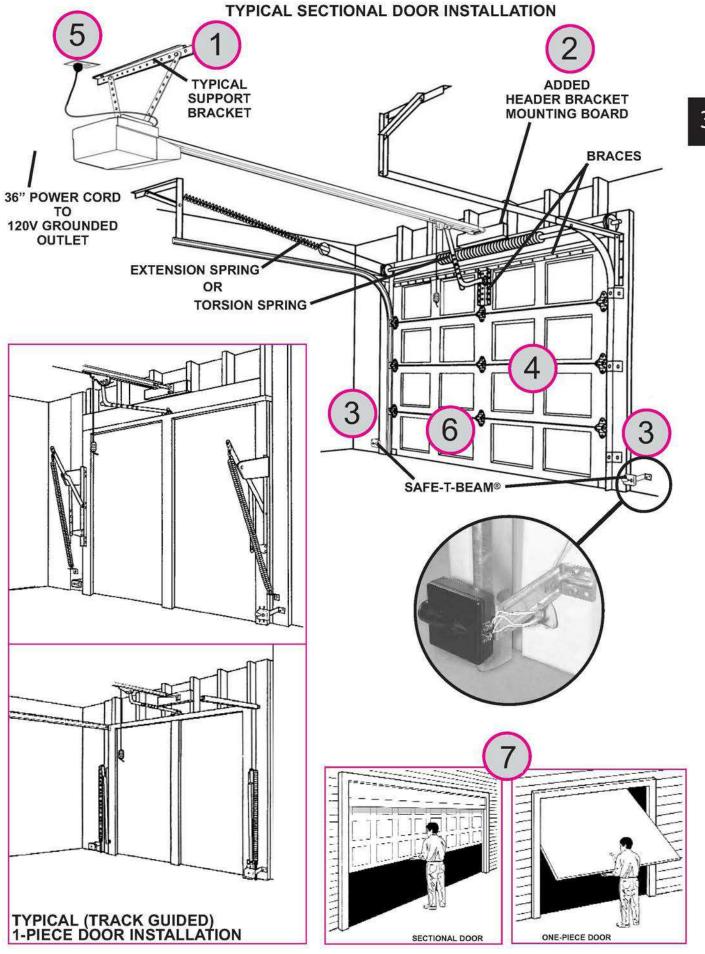
(NOT SHOWN) If your garage does not have a separate entry door, you might want to consider an emergency release kit (GER-2) for installation on your garage door. See page B at the center of this manual.

## **A WARNING**

DO NOT USE EXTENSION CORD!
Extension cords can cause dangerous overheating conditions.
DO NOT USE PORTABLE GENERATOR!
This product is designed to operate on standard house current. Do not use alternate power supplies.

## **A WARNING**

If your door sticks, binds, or is out of balance, have it adjusted by a professional. Door springs, cables, pulleys, brackets and associated hardware are under extreme tension and can cause serious injury or death.



# OVERVIEW OF POTENTIAL HAZARDS

Garage doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injuries, your safety and the safety of others depend on you reading the information in this manual. If you have questions or do not understand the information presented, call your nearest service representative

In this section and those that follow, the words **Danger**, **Warning**, and **Caution** are used to emphasize important safety information. The word:

▲ DANGER means that severe injury or death will result from failure to follow instructions.

WARNING means that severe injury or death can result from failure to follow instructions:

▲ CAUTION means that property damage or injury can result from failure to follow instruction

The word **NOTE** is used to indicate important steps to be followed or important considerations.

POTENTIAL HAZARD	EFFECT	PREVENTION
T	WARNING: Can Cause	Keep people clear of opening while door is moving.  Do Not allow children to play with the door
MOVING DOOR	Serious Injury or Death	Do Not operate a door that jams or one that has a broken spring.
ELECTRICAL SHOCK	WARNING: Can Cause Serious Injury or Death	Turn off power before removing operator cover.  When replacing cover, make sure wires are not pinched or near moving parts.  Operator must be properly grounded.
HIGH SPRING TENSION	WARNING: Can Cause Serious Injury or Death	Do Not try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.  Repairs and adjustments must be made by a trained service person using proper tools and instructions.

## **OPERATOR INSTALLATION**

# IMPORTANT INSTALLATION INSTRUCTIONS

## A WARNING:

# To reduce the risk of severe injury or death:

- READ AND FOLLOW ALL SAFETY, INSTALLATION
   OPERATION INSTRUCTIONS. If you
   have any questions or do not understand an
   instruction, call your service representative.
- 2. Do Not install operator on an improperly balanced door. An improperly balanced door could cause severe injury. Repairs and adjustments to cables, spring assembly, and other hardware must be made by a trained service person using proper tools and instructions.
- 3. Remove all ropes and disable all locks connected to the door before installing operator.
- Install door operator 7 feet or more above the floor.
   Mount the emergency release knob 6 feet above the floor.
- Do Not connect the operator to the source of power until instructed to do so.
- 6. Locate the control button:
  - · Within sight of door.
- At a minimum height of 5 feet, so small children cannot reach it.
  - · Away from all moving parts of the door.
- 7. Install the entrapment WARNING label next to the wall button or console. Install the emergency release tag on, or next to, the emergency release

## SAFETY FEATURES (varies by model)

## Safe-T-Beam® (STB) Non-Contact Reversing System

Places an invisible beam across door opening that reverses the door during down travel to the fully open position if anything passes through beam.

## Safe-T-Reverse® Contact Reversing System

Automatically stops and reverses a closing door within 2 seconds of contact with an object.

## Safe-T-Stop® Timed Reversed System

Automatically opens a closing door, if door does not close within 30 seconds.

## Force Guard® Control

Used to set the force required for opening and closing door. For maximum safety, set the minimum force required to fully open and close door.

## **Automatic Lighting System**

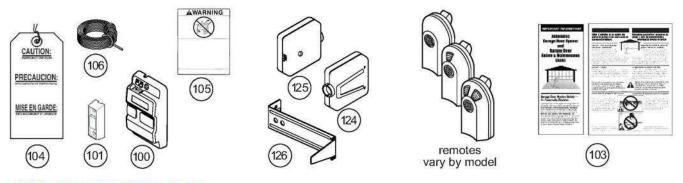
Two light bulbs up to 60 Watts max. each are used for safer entries and exits. The light turns on when door is activated and automatically turns off 4.5 minutes later.

## Manual Emergency Release

Allows the garage door to be opened or closed manually for emergencies or maintenance.

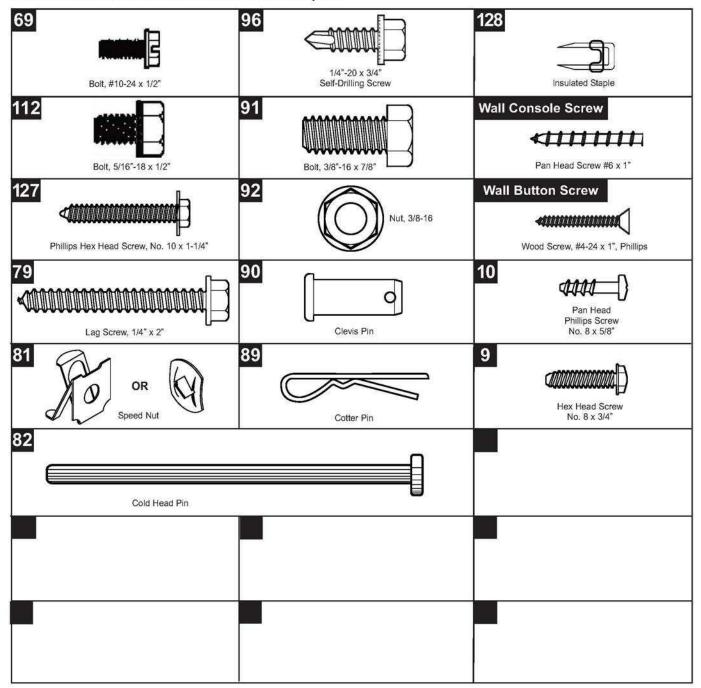
#### Relay Monitoring System

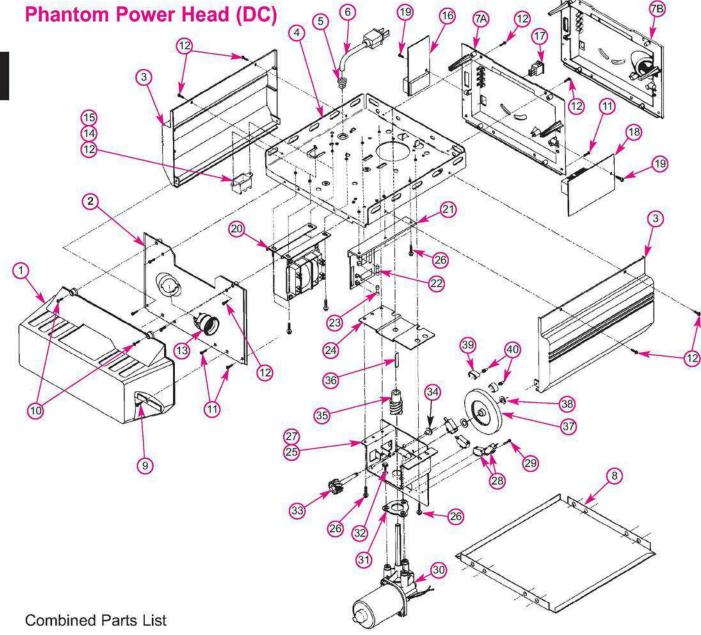
Automatically stops and reverses a closing door if the closing relay malfunctions



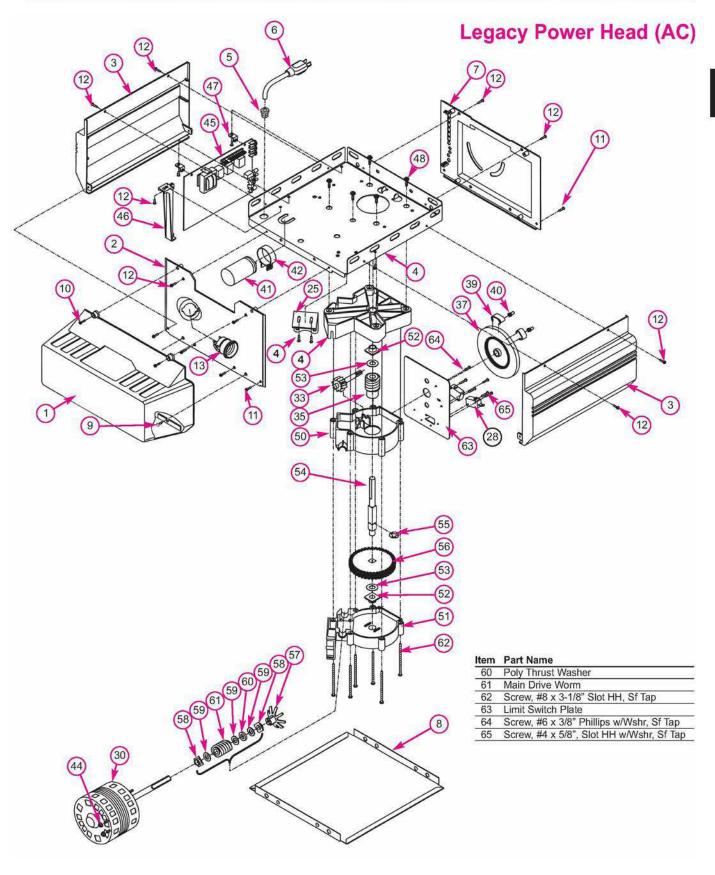
NOTE: Accessories vary by model.

FASTENERS - Shown full size. See Parts List for description.

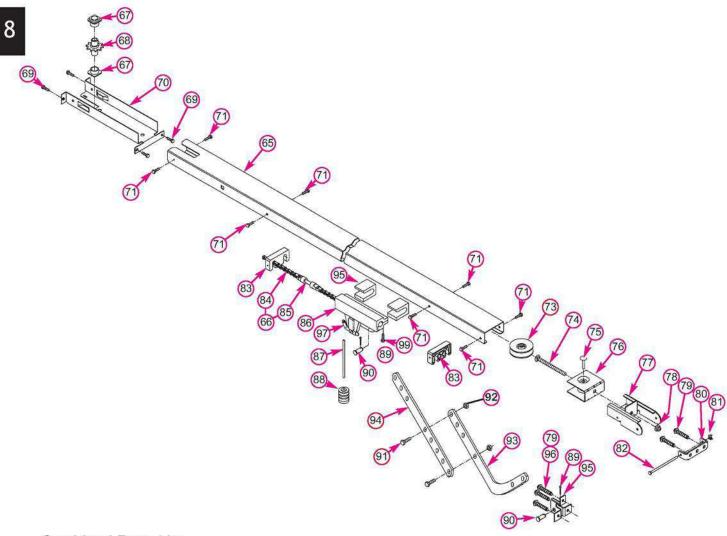




Item	Part Name	Item	Part Name	Item	Part Name
1	Lens	20	Transformer Assembly (by series/model)	40	Limit Pinion, 8 tooth
2	Front Cover	21	Rectifier Board Assembly	41	Capacitor
3	Side Cover (by series/model)	22	Fuse (F1), UL	42	Capacitor Clamp
4	Top Plate Assembly	23	Fuse (F2), UL	43	Screw, #10-24 x 1/2", Slot HH Sf-Tap
5	Strain Relief	24	Limit Gear Shroud	44	Nut, #10-32, Hex Serrated Flange
6	Cord & Plug Assembly	25	Motor Bracket	45	Circuit Board
7A	Component Panel (without rear light)	26	Screw, #10 x 3/8" HH	46	C.B. Bracket
7B	Component Panel (with rear light)	27	Limit Plate/Pin Assembly	47	Circuit Board Mount
8	Bottom Cover	28	Limit Switch	48	Screw, #10-16 x 5/8", HH Sf Tap
9	Screw, #8 x .75 Phil Hx Hd/W Sf Tap	29	Screw, #4-40 x 5/8" Slot HH w/Wshr, Sf Tap	49	Top Gear Housing
10	Screw, #8 x .62 Slt Hx Hd/W Sf Tap	30	Motor Assembly	50	Middle Gear Housing
11	Screw, #8 x .50 Slt Hx Hd/W Sf Tap	31	Motor Adapter Plate	51	Bottom Gear Housing
12	Screw, #8 x .38 Slt Hx Hd/W Sf Tap	32	Screw, #4 x 1/2" Slt HH w/Wshr	52	Drive Shaft Bushing
13	Light Socket (by series/model)	33	Limit Worm Gear	53	Drive Thrust Washer
14	Terminal Block & Lug	34	Limit Gear Bushing	54	Drive Shaft
15	M.O.V. Assembly	35	Limit Worm Drive	55	1/2" Retaining Ring
16	Receiver Assembly	36	Limit Worm Shim	56	Main Drive Worm Gear
17	Limit Set Switch	37	Limit Wheel	57	Optical Interrupt Wheel
18	Sequencer Assembly	38	Retaining Ring	58	Motor Flanged Bushing
19	Screw, #6 x .38 Slt Hx Hd/W Sf Tap	39	Limit Cam	59	Motor Thrust Washer



## Channel

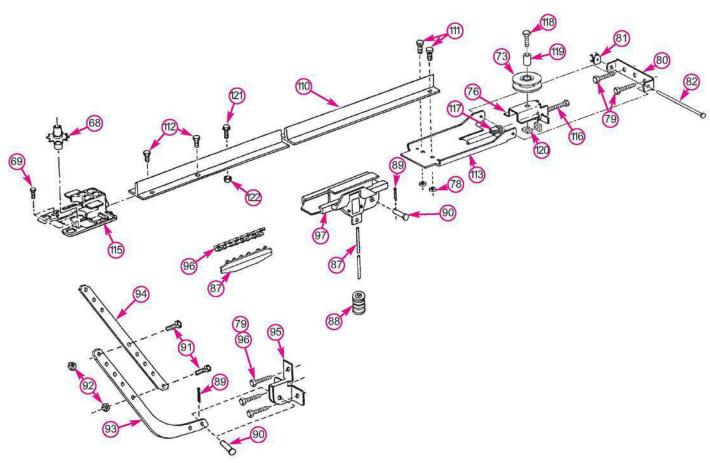


## Combined Parts List

Item	Part Name	Item	Part Name	Item	Part Name
66	Belt & Bullet Assembly - 7'6" Door	72	Channel - 7'6" Door (128" LG)	85	Chain Bullet
	(Belt Models Only)	S	Channel - 8' Door (146" LG)	C-	Belt Bullet
	Belt & Bullet Assembly - 8' Door	-	Channel - 10' Door (170.75" LG)		Belt Retainer
	(Belt Models Only)		Channel - 12' Door (188" LG)		Screw, #6-32 x 1/2" Phil Pan Hd Slf Tap
	Belt & Bullet Assembly - 10' Door	73	Pulley (Chain Models Only)	86	Carriage Slide
	(Belt Models Only)	-	Pulley (Belt Models Only)	87	Emerg. Release Cord-7'6" & 8' Doors (26.5")
	Belt & Bullet Assembly - 12' Door	74	Carriage Bolt, 5/16"-18 x 4.0		Emergency Release Cord -10' Doors (56.5")
67	(Belt Models Only)	75	Carriage Pin, 5/16" x 1.25		Emergency Release Cord -12' Doors (96.0")
67	Sprocket Bushing Sprocket, 10 Tooth - 7'6" & 8' Doors	76	Pulley Bracket Assembly	88	Emergency Release Knob (Red)
00		77	End Bracket	89	Cotter Pin
	(Chain Models Only) Sprocket, 12 Tooth - 10' Door	78		90	Clevis Pin
	(Chain Models Only)	10	Hex Flange Nut, 5/16"-18 (Chain Only)	91	Screw, 3/8"-16 x .87 Hx Hd Mch
			Flat Washer (Belt Models Only)	92	Hex Nut, 3/8"-16
	Drive Sprocket, 18 Tooth - 7'6" & 8' Doors	9	Hex Jam Nut, 5/16-18 (Belt Models Only)	93	Curved Door Arm
	(Belt Models Only)  Drive Sprocket - 10' Door	79	Lag Screw, 1/4" x 2" Hx Hd/W	94	Straight Door Arm
	(Belt Models Only)	80	Header Bracket	95	Door Bracket
69	Screw, #10-24 x .50 Hx Hd	81	Speed Nu	96	Screw, 1/4"-20 x 3/4" Hx Hd, Sf Tap
70	Sprocket Bracket (Chain Models Only)	82	Cold Header Pin	97	Carriage Assembly
10	Sprocket Bracket - 7'6" & 8' Doors	83	Carriage Stop	98	Carriage Cap
	(Belt Models Only)	84	Roller Chain -7'6" Door (Chain Only)(242.5")	99	Screw, #10-14 x 1-5/16" Hx Hd
	Sprocket Bracket - 10' Door (Belt Only)		Roller Chain - 8' Door (Chain Only) (278.5")	100	Wall Console (Series II )
	Sprocket Bracket - 12' Door (Belt Only)	-	Roller Chain -10' Door (Chain Only)(328.5")	101	Wall Button (Series II ) (lit primary)
71	Screw, #10-24 x .38 Hx Hd/W		8mm Belt		Wall Button (unlit secondary)

## Boom

9



Item	Part Name
102	Boom Support Kit (not shown)
103	Safety & Maintenance Guide
104	Emergency Release Tag (Tri-L)
105	Entrapment WARNING Label
106	Wire
107	Screw, #6-32 x 3/4" Slot Flat (not shown)
108	Slit Lockwasher, #6 (not shown)
109	Hex Nut, #6-32 (not shown)
110	Boom (L=112.475")
111	Screw, 5/16"-18 x 3/4"
112	Screw, 5/16" x 1/2" HH w/Wshr
113	Pulley Support
114	Chain
115	Sprocket Saddle
116	Screw, 5/16"-18 x 2-1/4" HH
117	Bolt Retainer
118	Screw, 5/16"-18 x 1-5/16" HH
119	Large Pulley Bushing
120	Square Nut, 5/16"-18
121	Screw, 1/4"-20 1" HH
122	Hex Nut/Lockwasher, 1/4"-20
124	STB System Sensor (Green LED)

Item	Part Name
125	STB System Source (Red LED)
126	STB Mounting Brackets (2)
127	Screw, 1-1/4" Phillips HH
128	Insulated Staples

## OPEN BLUE PARTS BAG

Screws for attaching light cover are included in this bag. Please set aside for use later.

- 1. Attach emergency release knob cord (Fig. 1-1).
  - · Tie overhand knot in end of cord.
  - · Thread cord through knob so knot is inside knob.
  - · Thread cord through hole in carriage lever.
  - · Tie overhand knot in other end of cord.

Do Not cut cord until after power head is mounted.

- 2. Attach emergency release tag (Fig. 1-1).
  - · Thread wire through hole in carriage lever.
  - · Wrap wire around itself, tie securely.

PLEASE NOTE THE ASSEMBLY PROCEDURES ARE DIFFERENT FOR BOOM AND CHANNEL. BE SURE TO FOLLOW THE APPLICABLE STEPS.

## CHANNEL & POWER HEAD ASSEMBLY

## **ACAUTION**

**Do Not** attempt to run power head or to set limits until operator is fully assembled and attached to the door.

- 3. Place power head and channel on clean, flat surface.
- Slide drive end of channel down over "D"-shaft on top of power head (Fig. 1-2).
  - · Support header end of channel level with power head.
  - · Slide carriage to align "D"-shaft with "D"-hole in sprocket.
  - Slide channel down "D"-shaft flush with power head.
- 5. Fasten channel to power head .
  - · Align mounting holes in front and rear of power head frame.
  - Insert and securely tighten the four (4) No. 10 x 1/2" hex head screws [69].

NOTE: Chain inner-slide or belt bullet should remain at mid-travel when assembling to power head to provide proper travel when setting limits.

## **BOOM & POWER HEAD ASSEMBLY**

## **ACAUTION**

**Do Not** attempt to run power head or to set limits until operator is fully assembled and attached to the door.

- 3. Place power head and boom on clean, flat surface.
- Slide drive end of boom down over "D"-shaft on top of power head (Fig. 1-3).
  - Support header end of boom level with power head.
  - Slide carriage enough to align "D"-shaft with "D"-hole in sprocket.
  - Slide boom down "D"-shaft flush with power head. drags on the boom

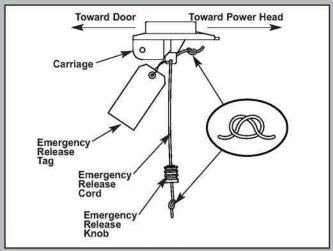


Fig. 1-1

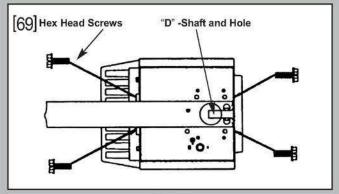


Fig. 1-2



No. 10 x 1/2" Hex Head Screw

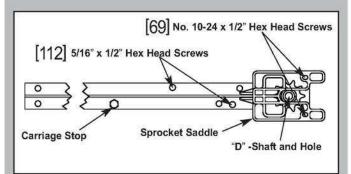
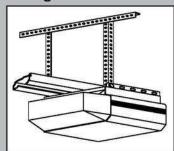


Fig. 1-3

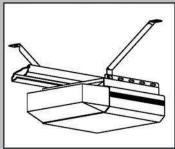


5/16" x 1/2" Hex Head Washer Screw

## **Angle Iron Method**



## **Conduit Method**



## **2A...** FOR TRACK GUIDED DOORS

## - FOR TRACKLESS DOORS GO TO PAGE 15 -

## **AWARNING**

- Do Not try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.
   Repairs and adjustments must be made by a trained service person using proper tools and instructions.
- Handles and other door projections can catch clothing. Remove ropes, hooks, hangers, decorative or security items mounted to door.
- Be sure Emergency Release Cord does not catch on roof carrier or other vehicle parts.

#### 1. Establish center line of door and header (Fig. 2-1).

- Close door.
- · Measure door width. Mark center.
- · Use straight edge to draw vertical line "V."
  - down door about 6".
  - on top of door.
  - up header about 20".

## 2. Establish Header Bracket position (Fig. 2-2).

- · Watch top edge of door as you raise it.
- Stop door when top edge reaches highest point of travel.
- · Measure distance from top edge of door to floor.
- · Add 2-1/2" to this measurement.
- · Close door.
- · Mark header at this height.
- If door spring is in the way, mark header 2-1/2" above the spring.
- Draw horizontal line "H" across line "V" at this point (Fig 2-1).

NOTE: Header bracket must be at least 2-1/2" above high point of door travel. It can be installed higher if door spring is in the way. Do Not move the spring.

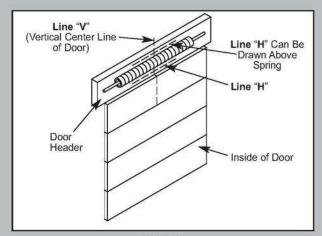


Fig. 2-1

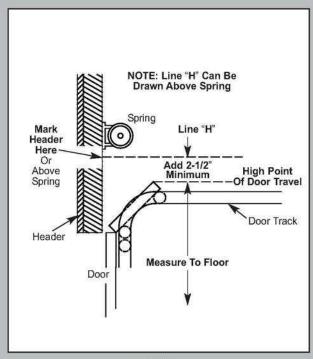


Fig. 2-2

## **ACAUTION**

Header bracket must be fastened to garage framing. Do Not fasten to drywall, particle board, plaster or other such materials.

## 3. Install header bracket (Fig. 2-3)

- · Place bracket so:
  - center hole is on line "V."
  - all holes are on line "H."
- · Mark hole positions "A" and "B."
- · Drill 5/32" holes at marked positions.
- Fasten bracket to header using two (2) 1/4" x 2" lag screws [79].

## Attach channel/boom assembly to header bracket (Fig. 2-4).

- Fasten header end of the channel/boom to the Header bracket with cold header pin [82].
- Install speed nut [81].
- · Support power head above floor, use:
  - rope.
  - ladder with cardboard packing.
  - wood.

## 5. Level boom assembly and power head (Fig. 2-5).

- Raise and support power head above door tracks.
- · Open door.
- Level channel/boom assembly and support temporarily.
- Center channel/boom assembly and power head on line "V" of door.

NOTE: The channel/boom assembly and power head should be level if possible. If necessary, power head may be mounted lower. However mounted, moving door must not touch channel/boom assembly.

## **ACAUTION**

Mounting bracket must be fastened to garage framing. **Do Not** fasten to drywall, particle board, plaster or other such materials.

## Mount power head (See Section 2 MOUNTING METHODS).

- Be sure channel/boom assembly and power head are on door center line (Line "V").
- Check the illustrations. Decide which mounting method you will use. Materials for mounting are not included.
- After power head is installed, remove supporting material.
- · Close door.

## 7. Install door braces (See CAUTION below).

## **ACAUTION**

Doors made of masonite, lightweight wood, fiberglass, and metal must be properly braced before mounting Door Operator.

Contact door manufacturer or distributor for bracing instructions.

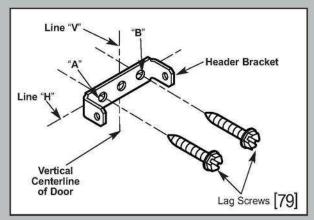


Fig. 2-3

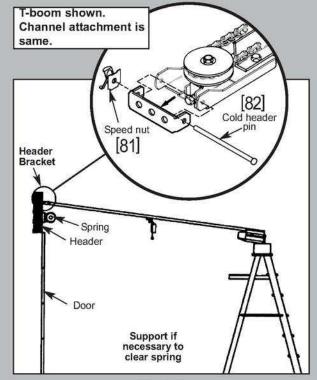


Fig. 2-4

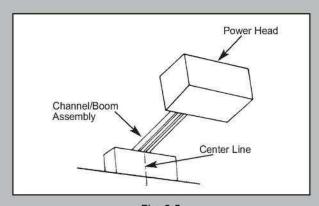


Fig. 2-5

#### 5. Fasten boom to power head.

- Align mounting holes of sprocket saddle, boom and power head frame.
- Insert the two (2) 5/16" x 1/2" hex head screws[112], then two (2) No. 10-24 x 1/2" hex head screws [69].
- · Tighten screws.

NOTE: Inner-slide/ bullet should remain at mid-travel when assembling to power head to provide proper travel when setting limits.

#### 6. Use adjusting bolt to set chain tension (Fig. 1-4)

 Chain should sag slightly but not so much that it drags on the boom.

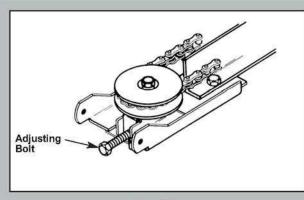


Fig. 1-4

# **OPEN ORANGE PARTS BAG**

2... INSTALLATION

# IMPORTANT INSTALLATION INSTRUCTIONS

# **A WARNING:**

# To reduce the risk of severe injury or death:

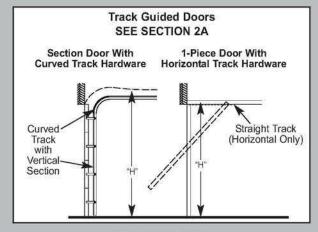
READ AND FOLLOW ALL SAFETY, INSTALLATION
 OPERATION INSTRUCTIONS. If you
have any questions or do not understand an instruction, call your service
representative.

Do Not install operator on an improperly balanced door. An improperly balanced door could cause severe injury. Repairs and adjustments to cables, spring assembly, and other hardware must be made by a trained service person using proper tools and instructions.

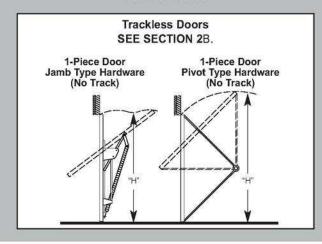
- Remove all ropes and disable all locks connected to the door before installing operator.
- Install door operator 7 feet or more above the floor.
   Mount the emergency release knob 6 feet above the floor.
- Do Not connect the operator to the source of power until instructed to do so.
- 6. Locate the control button:
  - · Within sight of door.
  - At a minimum height of 5 feet, so small children reach it.
    - · Away from all moving parts of the door.
- 7. Install the entrapment WARNING label next to the wall button or console. Install the emergency release tag on, or next to, the emergency
- 8. The operator must reverse when the door contacts a 1-1/2 inch high object on the floor at the center of the doorway. This is about the size of a 2" x 4"

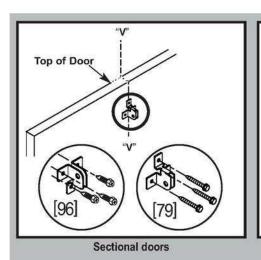
FOR HELP-1.800.929.3667 OR OVERHEADDOOR.COM

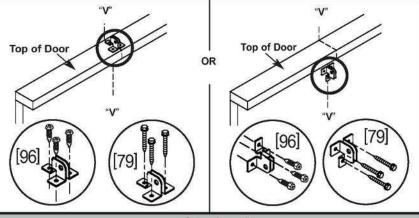
WHAT TYPE OF DOOR DO YOU HAVE? Look at the drawings below. They tell you where to find the installation instructions you need



DOTTED LINE AT "H"
INDICATES HIGHEST
POINT OF TRAVEL







8. Install door bracket (Fig. 2-6).

Contact door manufacturer.

NOTE: Self-drilling screws are intended for use with light-weight door only, while lag screws are meant for wood doors only.

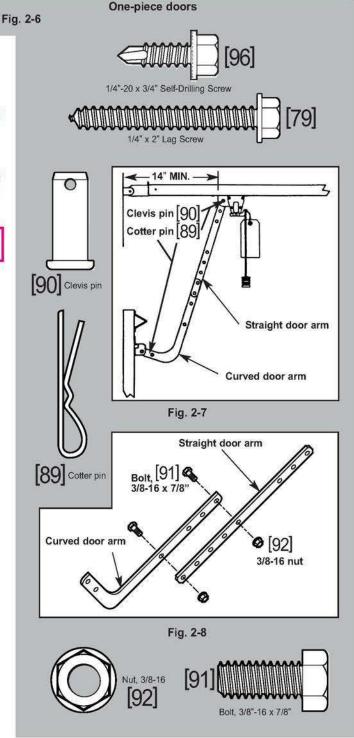
Because door designs vary, modifications may be required and additional materials needed. Please contact your door manufacturer with any questions concerning your door.

# **OPEN YELLOW PARTS BAG**

- 9. Install door arms (Fig. 2-7).
  - · Attach straight door arm to carriage.
    - slip straight door arm into slot at bottom of carriage as shown.
    - secure with clevis pin [90] and cotter pin [89] .
  - Attach short end of curved door arm to door bracket as shown.
    - slip short end of curved door arm into slot in door bracket.
    - secure with clevis pin and cotter pin.
  - · Release carriage (See emergency release tag).
    - slide carriage towards closed door.
    - stop carriage 14" minimum from door.
- 10. Join door arm sections (Fig. 2-8).
  - Use two (2) 3/8" x 7/8" hex bolts [91], and hex flange nuts [92].
    - use any two holes as far apart as possible.
    - slide carriage back and forth as needed to align holes.
  - Tighten hex nuts securely.
- 11. Adjust emergency release cord length.
  - Mount the emergency release knob 6 feet from the floor.
  - · Retie overhand knot and trim excess cord.
- DO NOT plug power cord into outlet.

Go to Section 3-SAFE-T-BEAM® SYSTEM INSTALLATION.

- PROCEED TO PAGE 18 -



 Do Not try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as, wood blocks, steel brackets, cables or other like items.

Repairs and adjustments must be made by a trained service person using proper tools and instructions.

- Handles and other door projections can catch clothing. Remove ropes, hooks, hangers, decorative or security items mounted to door.
- Be sure emergency release cord does not catch on roof carrier or other vehicle parts.

#### Establish center line of door and header (Fig. 2-9).

- Close door.
- · Measure door width. Mark center.
- · Use straight edge to draw vertical line "V."
  - down door about 6."
  - on top of door.
  - up header about 20".

#### 2. Determine door rise (Fig. 2-10).

- · Open door to highest point of travel.
- · Measure distance from top of door to floor.
- Subtract the actual height of door. The remainder is the door rise in inches as shown in TABLE A.

#### TABLE A

Door rise in inches	Locate header bracket above top edge of CLOSED door	
Up to 4"	Up to 10"	
4" to 8"	10" to 15"	
8" to 12"	15" to 20"	

#### 3. Locate header bracket (Fig. 2-9).

- Use TABLE A to determine header bracket position.
- Draw horizontal line "H" across line "H" at this point.

## **ACAUTION**

Header bracket must be fastened to garage framing. Do Not fasten to drywall, particle board, plaster or other such materials.

#### 4. Install header bracket (Fig. 2-11).

- · Place header bracket so,
  - center hole is on line "V."
  - all holes are on line "H."
  - Mark hole positions ("A" and "B").
  - Drill 5/32" holes at marked positions.
- Fasten header bracket to header with two (2) 1/4" x 2" lag screws [79].

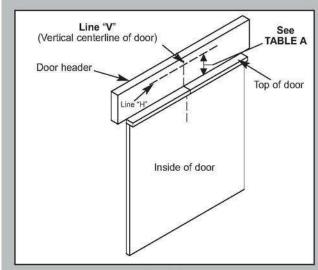


Fig. 2-9

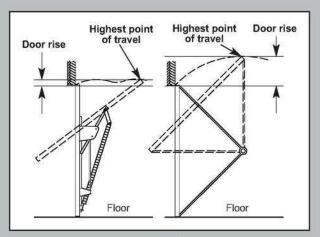


Fig. 2-10

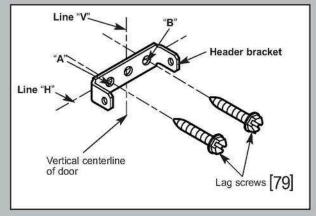


Fig. 2-11

#### Install door braces (See CAUTION below).

#### **ACAUTION**

Doors made of masonite, lightweight wood, fiberglass, and metal must be properly braced before mounting an operator.

Contact door manufacturer or distributor for bracing instructions.

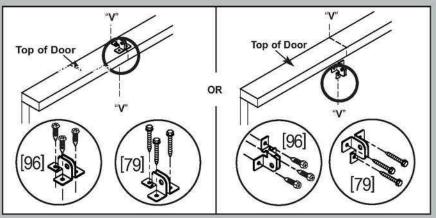


Fig. 2-12

#### 6. Install door bracket (Fig. 2-12).

Contact door manufacturer for proper installation.

NOTE: Self-drilling screws are intended for use with light-weight door only, while lag screws are meant for wood doors only.

Because door designs vary, modifications may be required and additional materials needed. Please contact your door manufacturer with any questions concerning your door.

#### Attach channel/boom assembly to header bracket (Fig. 2-13).

- Fasten header end of the channel/boom to the header bracket with pin.
- · Install speed nut onto pin (Fig, 2-14).
- Place cardboard packing under power head. Use additional support if needed.

#### 8. Establish power head mounting height (Fig. 2-15).

- Power head should be at door height above floor or higher.
- Temporarily support power head in this position.
   Use
  - rope
  - ladder with cardboard packing.
  - wood.

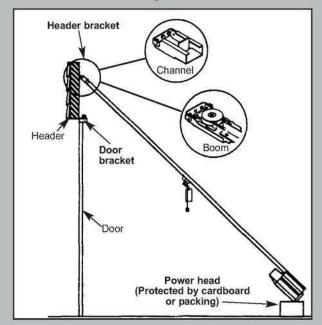


Fig. 2-13

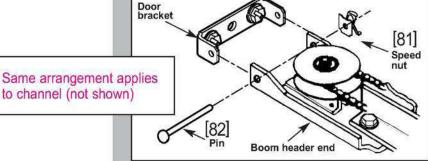
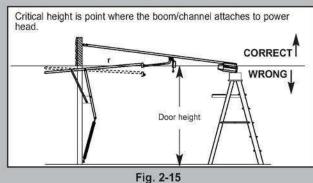


Fig. 2-14



# **OPEN YELLOW PARTS BAG**

## **A CAUTION**

Mounting bracket must be fastened to garage framing. Do Not fasten to drywall, particle board, plaster or other such materials.

#### Mount power head (See Section 2 ALTERNATE MOUNTING METHODS).

- Be sure boom assembly and power head are on door center line (line "V").
- Check the illustrations. Decide which mounting method you will use. Materials for mounting are not included.
- After power head is installed, remove supporting material.
- · Close door.

#### 10. Join door arms exactly as shown (Fig. 2-16).

- · Overlap arms by two (2) holes.
- Install two (2) 3/8" x 7/8" hex bolts, and hex flange nuts.
- · Tighten hex nuts securely.

#### 11. Install assembled door arms (Fig. 2-17).

- Attach straight end of assembled door arms to door bracket.
  - slip straight door arm into slot in door bracket.
  - secure with clevis pin [90] and cotter pin [89].
- Release carriage (See emergency release tag).
- · Slide carriage toward door.
- · Attach short end of curved door arm to carriage.
  - slip curved door arm into slot in carriage.
  - secure with clevis pin and cotter pin.

NOTE: When opening, door must not pass level position or if you are not able to close the door after completing previous step; a longer door arm is required. An extension kit can be purchased by calling the Customer Service phone number, 1.800.929.3667.

#### 12. Adjust emergency release cord length.

- Mount the emergency release knob 6 feet from the floor.
- · Retie overhand knot and trim excess cord.

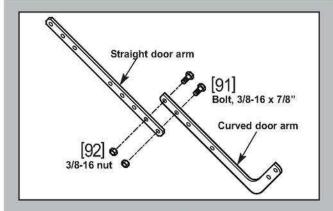


Fig. 2-16

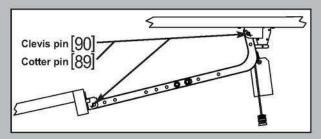
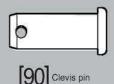
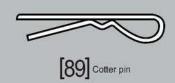


Fig. 2-17







There should be no electrical power to the operator while installing Safe-T-Beam<sup>®</sup> System wires. If you have plugged in the power cord —UNPLUG IT NOW.

NOTE: The operator will not close the door automatically unless the Safe-T-Beam<sup>®</sup> System is installed.

#### 1. Mounting brackets.

- Mark both sides of garage door frame or wall 5" above floor (Fig. 3-1).
- · Hold bracket against door frame or wall.
  - Check if brackets extend out from wall far enough, so tongue of bracket is beyond door, tracks or any door hardware.
  - If not:
    - STB bracket extensions are available at local dealer.
    - Blocks of wood, etc. may be substituted for extensions.
- Center bracket on your mark (Fig. 3-2).
- Fasten each with 2 screws [127].



NOTE: Mounting brackets can be attached to the floor using concrete anchors (not provided).

#### 2. Mounting STB source and sensor.

- · If garage has only one garage door.
  - Determine which side of garage receives most direct sunlight (Fig. 3-4).
  - Red LED should always be on sunny side whenever possible (Fig. 3-4).
- · For multiple doors.
  - Preventing crossed signals is critical.
  - Place source and sensor modules on adjacent doors facing in opposite directions (Fig. 3-4).

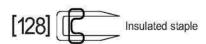
NOTE: To help prevent interference from sun, STB sensors (green LED) may be placed further away from the door opening where they will spend more time in shadows.

 Slide source/sensor onto tongue of bracket until it clicks into place (Fig. 3-3).

# OPEN RED PARTS BAG

#### Wiring.

- Route wire using either method shown (Fig. 3-5).
- Securely fasten wires to wall as you go.
  - Use insulated staples (included).



- Staples should be snug only.

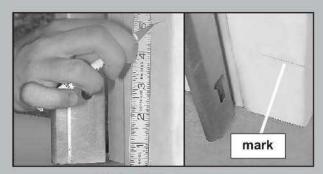


FIG. 3-1 Mark door frame.

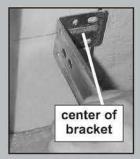


FIG. 3-2 Mount brackets.

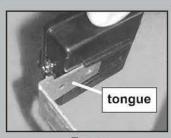


FIG. 3-3
Attaching STB's to brackets.
(See directions on next page and Figure 3-4 before attaching.)

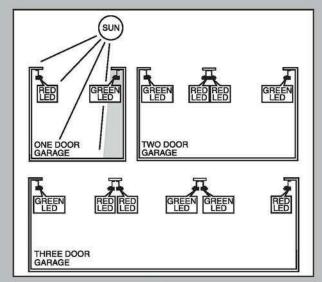


FIG. 3-4 STB locations.

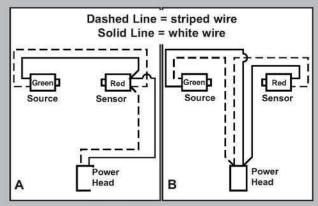


FIG. 3-5 STB wiring methods.

# **ACAUTION**

Staples which are too tight can cut or pinch wires. Cut or pinched wires can cause the STB System to stop working. When using the insulated staples, make sure you fasten them only as tightly as needed to hold the wire snugly.

- · Make wire attachments at STB's.
  - Splitting and stripping wire ends to be connected as shown (Fig. 3-6).
  - Loosen terminal screws.
  - Insert wire under flat plate and tighten screw. It does not matter which wire, white or striped, goes on which terminal (Fig. 3-7).
- · Make wire attachments at power head.
  - For Legacy. STB's are connected to terminals #2 and #3 on power head (Fig. 3-8).
  - For Phantom. STB's are connected to terminals #3 and #4 on power head (Fig. 3-8).

#### 4. Check the following.

- Insure that no part of door or its hardware is in path between lenses of source and sensor.
- Insure that tops of lenses are between 5"-6" above the floor (Fig. 3-9). The brackets are flexible and can be adjusted slightly if needed.

NOTE: STB alignment check must be performed following connection to electrical power (see page 17). DO NOT PLUG IN YET!







FIG. 3-7
Attachments
at STB.

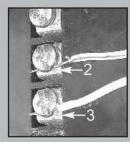


FIG. 3-8 (Legacy) Attachments at power head.



FIG. 3-8 (Phantom) Attachments at power head.

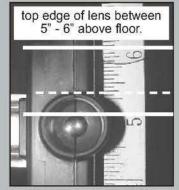


FIG. 3-9 Check lens height.

SOURCE (RED LED)	SENSOR (GREEN LED)	INDICATED CONDITION	REQUIRED ACTION	
● ON	● ON	NORMAL OPERATION	NONE	
O OFF	O OFF	POWER HEAD NOT POWERED     WIRING FROM POWER HEAD	CHECK BREAKERS, FUSES, PLUGS     CHECK WIRING FOR	
O OFF	ON	WIRING TO SOURCE MISSING     OR BAD     2. POWER	CHECK WIRING     REMOVE POWER AND REAPPLY	
2 BLINKS, PAUSE (REPEA	TO ON	1. BEAM NOT ALIGNED 2. BEAM OBSTRUCTED 3. SENSOR	1. CHECK ALIGNMENT 2. CHECK FOR OBSTRUCTION 3. CALL CUS-	
2 BLINKS, PAUSE	O OFF	WIRE TO SENSOR MISSING OR BAD   2.	2. CALL CUSTOMER SERVICE	
3 BLINKS, PAUSE	● ON	SENSOR DEERSOR RECEIVING INTERFER-	ATTEMPT TO DETERMINE SOURCE OF INTERFERENCE     CALL CUS-	
4 BLINKS, PAUSE	● ON	SOURCE NOT SENDING PULSES     SOURCE DEFECTIVE	CALL CUSTOMER SERVICE     CALL CUSTOMER SERVICE	

CUSTOMER SERVICE: 1.800.929.3667 or www.overheaddoor.com

Power cord must be unplugged before attaching wires. Be sure wire ends do not touch each other or other terminals.

# **A CAUTION**

- Use of any other wall control will cause the light not to work and could cause door to operate by surprise.
- Cut or pinched wires can cause door operator to malfunction. Drive staples just tight enough to hold wire.
- 1. Run wire from power head to wall control.
  - · Place the wall control:
  - In sight of door.
  - At least 5 feet from floor, so small children can not reach it.
  - Away from moving parts of door and door hardware.
  - · Use staples to fasten wire to ceiling and wall.
- Remove 1/2" insulation from each wire (Fig. 3-6)(pg. 19).
- Attach wires to terminals (Phantom Fig. 4-1a) (Legacy Fig. 4-1b).
  - · Loosen, but Do Not remove screw from terminal.

#### For Phantom.

- Connect striped wires to terminal "2" on power head and "B" on wall control.
- Connect white wire to terminal "1" on power head and "W" on wall control.

#### For Legacy.

- Connect striped wires to terminal "1" on power head and "B" on wall control.
- Connect white wire to terminal "2" on power head and "W" on wall control.

#### 4. Mount wall control (Fig. 4-2).

- · For wall button, use two wood screws.
- · For wall console, use two pan head screws.

#### 5. Mount entrapment warning label.

- Remove protective backing and stick near wall control.
- Use tacks or staples to permanently mount Label.
- Make sure everyone reads and follows WARNINGS.

#### Vacation Locking Switch

- LOCK disables controls after door is completely closed
- UNLOCK allows controls to work normally

#### **Independent Light Control**

- Controls door operator lights from inside garage
- Energy-Saver shut-off turns off light 5 minutes after door activation
- n For additional wall button, use only part number 19614R (universal)

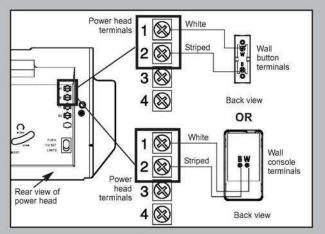


Fig. 4-1a

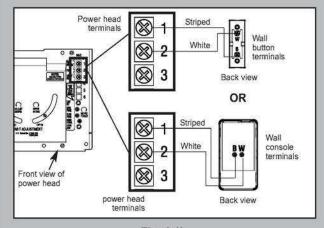


Fig. 4-1b

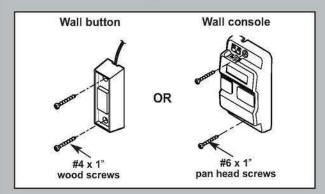
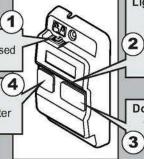


Fig. 4-2



#### Lighted Button

- Shows system is powered
- Lights when Security Lock

  Switch is in UNLOCK position
- Goes out when Security Lock
   Switch is in LOCK position

#### **Door Control Button**

 Open and closes door from inside garage

Fig. 4-3

To reduce the risk of electrical shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do Not change the plug in any way. The door operator must be properly grounded to prevent personal injury and damage to the components.

The ELECTRICAL POWER to the door operator MUST BE TURNED OFF when power head cover is removed. Electrical power must remain off while making electrical connections.



- Some building codes require direct wiring to a branch circuit. If direct wiring is NOT required, plug door operator into grounded outlet (Fig. 6-1).
- 2. Return to Section 3 for SAFE-T-BEAM® System alignment and troubleshooting.

NOTE: If permanent wiring is required, have a professional electrician install circuit and wire door operator.

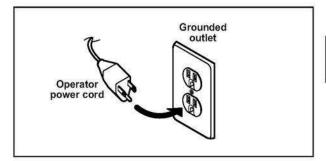


Fig. 5-1

#### **PERMANENT WIRING INSTRUCTIONS FOR ELECTRICIAN**

- Disconnect the power cord from the branch circuit mains.
- 2. Remove bottom cover from power head.
  - Remove four (4) hex head screws from front and rear covers.
  - Slide bottom cover off.
- 3. Remove existing power cord from power head.
  - Disconnect three power cord wires.
  - · Remove and discard power cord.
  - · Remove 7/8" diameter knock-out plug.
  - Install a suitable entrance bushing.
- 4. Install permanent wiring to power head.

# For Phantom—connect permanent wiring to internal terminal block.

- · Connect white supply line to silver terminal.
- Connect black supply line to brass terminal.
- Connect ground wire to green wire location (GROUND).

#### For Legacy—connect permanent wiring.

- · Make connections with UL recognized wire nuts.
- Connect white supply line to white wire.
- · Connect black supply line to black wire.
- Connect ground wire to green wire location (GROUND).
- Wires inside operator are to be a minimum of 6 inches.
- 5. Replace power head bottom cover.
  - Replace and tighten four (4) hex head screws.

NOTE: Circuit boards are light sensitive. Make sure cover is on power head before operation.

Door opens rapidly.

- Keep path clear.
- Position ladder to the side of power head so it is clear of all moving parts of door and operator.

Set door operator so minimum force is needed to operate door.

Before starting main limit switch settings, LOCK carriage onto boom assembly (See emergency release tag).

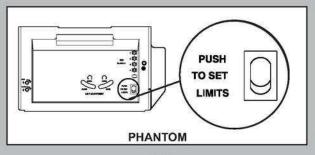
- Raise the door until the carriage engages with the inner-slide/bullet.
- 2. Set "OPEN" limit switch (Fig 6-1).
  - · Locate limit set switch on back of power head.
  - Push and hold limit set switch until door moves to the fully open position.
    - release the limit set switch.
    - "OPEN" limit switch is set.

NOTE: If door stops and refuses to move up, adjust "OPEN FORCE" (See Section 7-FORCE ADJUSTMENT) and then repeat setting limit switch.

- 3. Set "CLOSE" limit switch (Fig. 6-1).
  - Push and hold limit set switch until door contacts the ground and stops.
    - release limit set switch.
    - "CLOSE" limit is set.

NOTE: If door stops and refuses to move down, adjust "CLOSE FORCE" (See Section 7-FORCE ADJUSTMENT) and then repeat setting limit switch.

NOTE: Do Not push the limit set switch again, your limits are set. Slight adjustment may be needed later (See Section 8-FINE LIMIT SWITCH ADJUSTMENTS).



OR

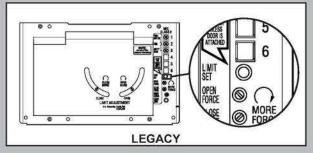


Fig. 6-1

Adjust your door operator so that minimum force is needed to operate door.

Position ladder to the side of the power head so that it is clear of all moving parts of the power head, boom assembly and door.

During the following steps, the motor protector may open. Wait about 20 minutes for protector to reset.

NOTE: Use wall control to run door to the fully CLOSED position before starting "OPEN FORCE" adjustment.

- 1. Adjust the "OPEN" Force (Fig. 7-1).
  - Locate screw on back of power head marked "OPEN FORCE."
  - · Gently turn screw counterclockwise until it stops.

#### NOTE: Little effort is required to turn adjusting screw.

- · Operate door using wall control.
- If door does not completely open, turn "OPEN FORCE" screw clockwise slightly.
- · Activate door using wall control.
- Repeat force adjustment until door will completely open.

#### NOTE: Set minimum force required to make door open.

- · Close door, use wall control.
- Adjust the "CLOSE FORCE" (Fig. 7-1). Use wall control to run door to the fully OPEN position before starting "CLOSE FORCE" adjustment.
  - Locate screw on back of power head marked "CLOSE FORCE."
  - Gently turn screw counterclockwise until it stops.

#### NOTE: Little effort is required to turn adjusting screw.

- Operate door using wall control.
- If door does not completely close, turn "CLOSE FORCE" screw clockwise slightly.
- · Operate door using wall control.
- Repeat force adjustment until door will completely close.

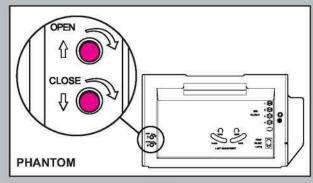
NOTE: Set the minimum force required to make the door close. Smaller the number the smaller the force.

# 3. CONTACT REVERSE (Fig. 7-2)

Fine adjustments for limit switches (see Section 8) MUST BE completed before starting CONTACT REVERSE.

- Open door, use wall control.
- · Place a 2 by 4 board laid flat in center of doorway.
- · Close door.
- Door MUST stop and reverse to open position. If it does not, repeat fine adjustments for down limit switch and "CLOSE FORCE" adjustment until the door will reverse to the open position.

**NOTE:** Set minimum force required to make door close. If door does not reverse, decrease "CLOSE FORCE" until door reverses.



OR

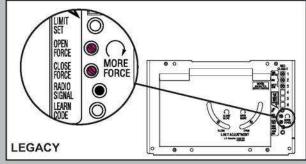


Fig. 7-1

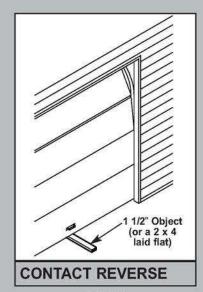


Fig. 7-2

## 8... FINE LIMIT SWITCH ADJUSTMENT

During the following steps, the motor protector may open. Wait about 20 minutes for protector to reset.

- 1. Adjusting the "OPEN" limit switch (Fig. 8-1).
  - Run door to open position by pushing wall control.
  - Locate curved "OPEN" limit adjustment slot on back of power head.
  - · Look into slot for pinion screw.
  - · Insert a screwdriver and turn pinion screw.
    - clockwise to open more.
  - counterclockwise to open less.
- 2. Test door operator. Use wall control to run door open and close.
- Repeat step as necessary to properly set "OPEN" limit switch.
- 4. Adjust the "CLOSE" limit switch (Fig. 8-1).
  - · Run door fully closed by pushing wall control.
  - Locate curved "CLOSE" limit adjustment slot on back of power head.
  - · Look into slot for pinion screw.
  - · Insert a screwdriver and turn pinion screw.
    - counterclockwise to close more.
    - clockwise to close less.
- Test door operator. Use wall control to run door open and close
- Repeat step as necessary to properly set "CLOSE" limit switch
- 7. Perform CONTACT REVERSE

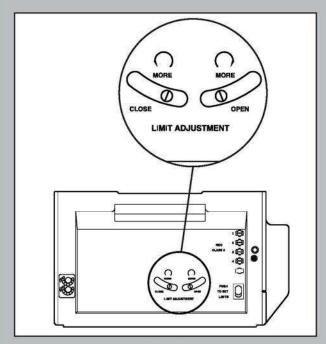


Fig. 8-1
Actual picture may vary by model

## 9... REMOTE CONTROLS

## **AWARNING**

Moving door can cause serious injury or death

- · Keep people clear of opening while door is moving.
- . Do Not allow children to play with remote controls.

If safety reverse does not work properly:

- Close door and disconnect operator using emergency release.
- Do not use door operator or remote controls
- Refer to door and door operator owner's Manuals before attempting any repairs

NOTE: Factory sets different codes for each remote control.

Remote controls will not work if STB's malfunction When programming remote control keep at least 24 inches away from antenna.

- 1. Program one-button remote (Fig. 9-1)
  - Locate learn code button and learn indicator on power head.
    - Remove lens cover on back of power head.
  - Press and release learn code button on power head.
    - LED on power head blinks 2 times per second.

(continued on next page)



Remotes vary depending on model. Your operator will have one or the other.

- Press and release a remote control button.
  - LED on power head stops blinking.
- Press and release same remote button again.
  - LED goes out. Remote is now programmed.

#### 2. Program multi-button remote control

· Repeat step 1 ("program one-button remote" for each button).

NOTE: Each button on a multi-button remote control is for a different operator.

#### 3. Operate remote control

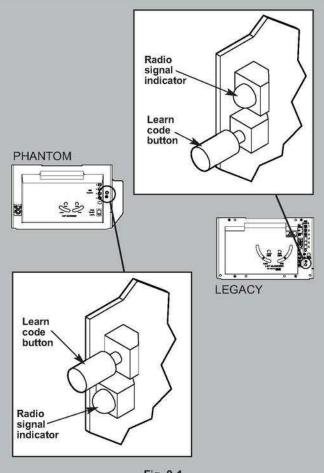
- Point remote control at door
  - Door moves
- Press button again
  - Door stops
- · Press button again
  - Door reverses

NOTE: Door automatically stops at end of open or close cycle.

#### 4. Erasing all receiver memory

- Press and hold learn code button on power head
  - 10 seconds or until light goes out
  - Memory is erased
- · Program door operator again
- · Press remote control button once within 30 seconds
  - LED on power head stays lit
- · Press remote control button again
  - LED on power head goes out and remote control is programmed

NOTE: If LED blinks approximately 4 times per second, programming has stopped. If programming stops, repeat above steps.



#### Fig. 9-1

# .. BATTERY / VISOR CLIP INSTALLATION

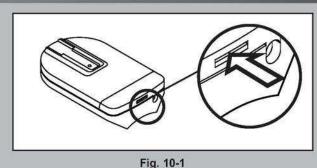
- 1. Turn remote control upside down (Fig. 10-1)
- 2. Battery replacement (your remote control is battery powered).
  - · Gently push straight IN on tab as shown (Fig. 10-1).
    - use ball point pen, coin or small screwdriver.
    - battery cover snaps open.
  - Install new battery in same position.
    - use A23, WEVEREADY 12 Volt battery.

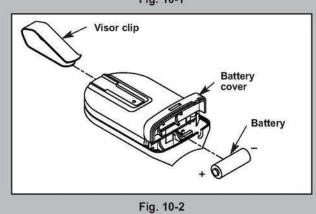
#### 3. Attach visor clip to remote control (Fig. 10-2)

· Slide visor clip into back of case until it snaps into place.

#### 4. Remote control operation

- · Point remote control at the garage door and press the button. Door will move.
- Press remote control button again and door
- · Press remote control button again and the door will move the other way. The door automatically stops at the end of the open or close cycle.





- Install light bulb(s) into socket(s).
  - Do Not use short neck bulb(s).
  - Use bulb(s) rated for:
  - rough service.
  - vibration.
  - appliances.
  - · 100 watt maximum.
- 2. Bend two (2) slotted tabs up. This will activate the "living hinge" of the lens (Fig. 11-1).

# NOTE: The following steps use the screws from the Blue Parts Bag that were set aside earlier.

- 3. Start two (2) No. 8 x 3/4" hex head screws into bottom holes of panel (Fig. 11-2).
  - · Slide slotted tabs up behind hex head screws.
  - · Tighten hex head screws.
- 4. Align lens holes and holes of panel.
  - Insert and tighten a No. 8 x 5/8" pan head screw into each round lens hole and tighten,

NOTE: Screw heads fit completely into recess of lens tab.

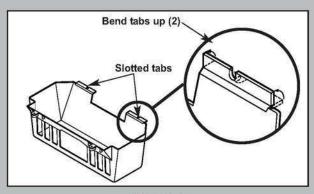


Fig. 11-1

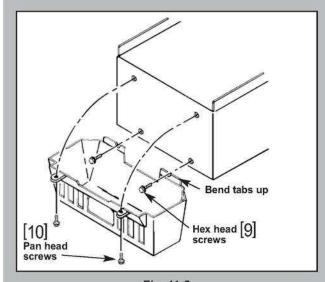


Fig. 11-2





#### **MONTHLY MAINTENANCE**

#### DOOR SPRINGS and DOOR HARDWARE

- Do not operate garage door automatically or manually if springs are broken. CONTACT A PROFESSIONAL FOR SERVICE.
- Oil door rollers, bearings, and hinges monthly.
   Use silicone lubricant or light oil.

#### DOOR BALANCE

- Close door. Pull red emergency release knob down and toward power head to release door from boom assembly.
- Raise door manually approximately 3 feet. Door should stay in that position. If door moves, HAVE DOOR SERVICED BY A PROFESSIONAL.
- Close door. Pull red emergency release knob to reattach door to boom/channel assembly.

#### CONTACT REVERSE

- Close door on a 2 by 4 board laid flat on the floor in the center of the garage doorway.
- Close door by using wall button or remote control.
- If door fails to reverse on contact with the board, see Section 7-CONTACT REVERSE.
- If operator still fails, replace operator or HAVE THE DOOR SERVICED BY A PROFESSIONAL.

#### Safe-T-Beam® STB SYSTEM

 Use self-diagnostic Safe-T-Beam<sup>®</sup> System troubleshooting information to maintain safe operation. (See Section 3-STB SYSTEM INSTALLATION.)

# IMPORTANT SAFETY INSTRUCTIONS

# **A WARNING**

# To reduce the risk of severe injury or death:

- 1. READ AND FOLLOW ALL INSTRUCTIONS.
- 2. Never let children operate or play with operator controls. Keep remote control away from children.
- Always keep people and objects away from moving door. Keep door in sight until it is completely closed. NO ONE SHOULD CROSS THE PATH OF THE MOVING DOOR.
- 4. Test operator monthly. The door MUST reverse on contact with a 1-1/2 inch object (or a 2" x 4" board laid flat) at the center of the doorway on the floor. After adjusting either the force or the limit of travel, retest the door operator. Failure to adjust the operator properly may cause severe injury or death.
- 5. If possible, use the emergency release only when the door is closed. Use caution when using this release with the door open. Weak or broken springs may cause the door to fall rapidly causing severe injury or death.
- KEEP DOOR PROPERLY BALANCED. See door owner's manual. An improperly balanced door could cause severe injury or death. Have a qualified service person make repairs to cables, spring assemblies, and other hardware.
- The electrical power to the door operator MUST BE turned off when cover is removed. Electrical power must remain off while making electrical connections.
- 8. SAVE THESE INSTRUCTIONS.

#### **Transmitter Compliance Statement**

Transmitters comply with all United States and Canadian legal requirements as of the date of manufacture. No warranty is made that they comply with all legal requirements of any other jurisdiction. If transmitters are to be used in another country, the importer must determine compliance with any local laws and regulations which may differ from United States and Canadian requirements prior to use.

Los transmisores cumplen con todas las reglamentaciones legales de los Estados Unidos y del Canadá, en la fecha de fabricación. Ninguna garantía se da que cumplan con todas las reglamentaciones legales de ninguna otra jurisdicción. Si los transmisores se van a utilizar en otro país, el importador debe determinar si cumplen con las reglamentaciones y leyes locales que puedan ser diferentes a las reglamentaciones de los Estados Unidos y del Canadá, antes de usar los mismos.

Les émetteurs sont conformes à la réglementation américaine et canadienne à compter de leur date de fabrication. Aucune garantie n'est stipulée indiquant qu'ils sont conformes à toutes les prescriptions juridiques d'autres autorités. Si les émetteurs sont utilisés dans d'autres pays, il incombe à l'importateur d'en déterminer leur conformité aux lois et règles locales pouvant différer de celles des États-Unis et du Canada avant toute utilisation desdits émetteurs.

Sendegeräte entsprechen allen gesetzlichen Bestimmungen in den USA und Kanada zum Zeitpunkt der Herstellung. Wir übernehmen keine Gewährleistung für die Einhaltung aller gesetzlichen Bestimmungen in anderen Ländern. Sollen Sendegeräte in anderen Ländern eingesetzt werden, so muss der Importeur vor dem Gebrauch sicherstellen, dass die Sendegeräte auch solchen lokalen Bestimmungen entsprechen, welche von den Bestimmungen der USA und Kanadas abweichen.

截止于制造日期,传动装置符合美国和加拿大的所有法律要求。不提供传动装置符合任何其他司法地区所有法律要求之担保。如果传动装置需在任何其他国家使用, 进口商必须在使用之前确定装置符合与美国和加拿大要求不同之所有地方法规 各例。

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트랜스미터들은 미국과 캐나다 전역에서 제조 날짜를 명기해야 하는 요구사형 에 따라야 합니다. 기타 다른 관할권의 모든 법적인 요구 사항에 따라야 하는 책임은 없습니다. 만일 트랜스미터들이 기타 다른 지역에서 사용될 경우 수입업자는 사용하기에 앞서 미국과캐 나다와의 요구사항과는 다를지도 모르는 그 지역의 법과 조례에 따라야 할지의 여부를결 정해야 합니다. Use this guide to correct problems with your door operator. If these solutions **do not** work, call Customer Service.

## ACAUTION

Use only with included SERIES II wall control
Use of any other wall control can cause the door
to operate unexpectedly and the light not to work.

PROBLEM	SOLUTIONS				
Operator does not run from wall control.	Check lock switch on wall console (See section 4).  Check the power source.  • Plug a lamp into outlet used for power head. If lamp works, power source is OK. If not, check fuse or circuit breaker.				
	If power is OK:         - Check connections at power head terminals.         - Check connections at wall control.         - Motor protector may be open. Wait about 20 minutes for protector to reset.				
Door starts for no reason.	Check staples on wire from power head to wall control. If they cut into insulation, they can short wires If wire is cut, replace it.  Was a remote control lost or stolen? Erase all remote control codes from receiver memory and reprogram. Wall control button sticking. Check operation of buttons.				
Door starts down, then stops before it's closed.	Check CLOSE limit switch setting (See Section 8) Check for shorted wires				
Door starts down, then stops and goes back up.	Check force adjustment (See Section 7).  Check CONTACT REVERSE (See Section 7).  Check for light beam obstruction or misalignment of Safe-T-Beam® (See Section 3).  Check STB self-diagnostic code.				
Door will only run closed.	Check OPEN limit switch for short and proper wiring. Check force adjustment (See section 7). Check for broken door spring.				
Door will only run open.	Check Safe-T-Beam® System(See section 3). Check CLOSE limit switch for short and proper wiring. Check force adjustment (See Section 7).				
Remote control has less than 25 feet operating range.	Relocate remote control inside car. Point remote control at door. Replace battery. Do Not attempt to retune remote controls.				
Door starts up, but stops before it's completely open.	Be sure door is in good repair, properly lubricated and balanced.  Check OPEN limit switch setting (See section 8).  Check force adjustment (See section 7).  Check for broken door spring.				
Operator runs, but door does not move.	Make sure carriage is engaged. Check force adjustment (See Section 7).				
Operator works from wall control, but not from remote control.	Program remote control code into receiver memory (See section 9).  If one remote control works and another does not, check battery, remote control type (Series II ) and frequency of non-working unit (See section 9).				
Noisy operation.	Be sure all fasteners are tight.  Be sure door is in good repair, properly lubricated and balanced (See Monthly Maintenance section).				
STB System malfunction.	Use self-diagnostic STB System troubleshooting information to maintain safe operation (See section 3).				
Lights will not go out.	Check wiring.  Disconnect & reconnect wires on wall control.  Non-compatible wall control.				
Innerslide jammed into power head.	Remove motor cover and rotate opti-wheel.				

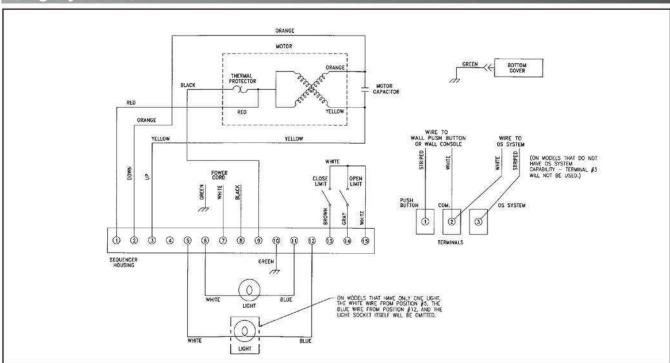
# **ACAUTION**

Opening cover could cause electrical shock.

#### (Phantom Motor) CABLE TO WALL BUTTON OR CONSOLE BLACK WHITE GREEN ORANGE (OS SYSTEM) 0 YELLOW ORANGE (Jub) BLACK Φ 3 4 6 @ (3) 1 0 2 3 6 GREEN (3) 6 0 8 9 0 0 0 0 0 0 O 6 9 9-RECTIFIER LIGHT 0-2 3 6 9 (6) 7 1 0 GREEN WIRE TO POSITION #2 ON 120 KG MODELS. SEQUENCER 0

ON MODELS THAT HAVE ONLY ONE LIGHT, THE WHITE WIRE FROM POSITION AS THE BLUE WIRE FROM POSITION #11, AND THE LIGHT SOCKET (TSELF WILL BE OM/TED.

# (Legacy Motor)



1-Button Remote Control with CodeDodger®
Controlador remoto de lujo con CodeDodger®
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2-Button Remote Control with CodeDodger® Controlador remoto de 2 funciones conCodeDodger® Télécommande à 2 fonctions avecCodeDodger®



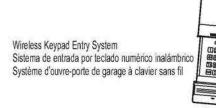
3-Button Remote Control with CodeDodger®
Controlador remoto de 3 funciones conCodeDodger®
Télécommande à 3 fonctions avec CodeDodger®



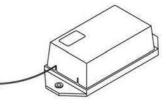
3-Button Mini Remote Control withCodeDodger®
Minicontrolador remoto de 3 funciones con CodeDodger®
Mini télécommande à 3 fonctions avecCodeDodger®



Universal Wall Button Botón de pared universal Bouton mural universel



Universal Conversion Kit Juego de conversión univer Nécessaire de conversion L



60 WATT Light Bulb Bombilla de 60 Vatios Éclairage de 60 WATT



Emergency Release Kit
Juego de pica-porte de pestillo
Nécessaires de d'clenchement de secours



OverHead Door Corp 22790 Lake Park Blvd. Alliance, Ohio 44601

Call: 1.800.929.3667

Web: www.overheaddoor.com

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•		
CONTACT NUMBERS		
NAME	_ COMPANY	_ NUMBER
NAME	_ COMPANY	NUMBER
NAME	_ COMPANY	NUMBER
NAME	_ COMPANY	NUMBER
NAME	_ COMPANY	NUMBER
NAME	_ COMPANY	_ NUMBER



# 22790 Lake Park Blvd. • Alliance, Ohio USA • 44601 Overhead Door Corporation

# **Limited Warranty**

Overhead Door Corporation ("ODC") warrants to the original purchaser of the garage door opener as follows:

Model 496 - Motor 5 Years and all other parts 3 years. Model 696 - Motor Lifetime\* and all other parts 5 years. CD - Motor Lifetime\* and all other parts 5 years.

Model 777-

\*Lifetime warranty - warranted for as long as you own your home.

ODC's obligation under this warranty is specifically limited to repairing or replacing at its option, any parts which shall be determined by ODC to be defective during the applicable warranty period. This warranty applies only to the original purchaser and is not transferable.

Repair or replacement labor is included for a period of one year from the date of installation. After one year, all labor charges will be the responsibility of the owner. This warranty applies only to the original purchaser and is not transferable.

This warranty does not apply to any opener installed in a commercial, industrial, or other non-residential application. This warranty does not apply to any opener which has been altered or repaired by any person not expressly authorized by ODC in writing to do so. This warranty does not apply to any opener or part which has been damaged or deteriorated due to misuse, accident, or failure to provide necessary maintenance.

THERE IS NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER IMPLIED WARRANTY BEYOND ONE YEAR FROM THE DATE OF INSTALLATION. ODC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES NOR FOR ANY FURTHER LOSS WHICH MAY ARISE IN CONNECTION WITH ANY CLAIM.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

ODC has not established any informal dispute settlement procedure of the type described in the Magnuson-Moss Warranty Act. Claims under this warranty must be made in writing to ODC or one of its authorized distributors within the applicable warranty period. Either the original seller may be contacted or the nearest Overhead Door Distributor may be contacted by calling 1-800-929-DOOR. (Proof of purchase and identification as the original purchaser may be required.)

Manufactured under one or more of the following U.S. patents: 3,898,582/4,041,259/4,048,630/4,064,487/4,103,238/5,222,403

Other Patents applied for

		OF INSTALLATION FOR YOU E AVAILABLE IF YOU EVER NI	
Date Purchased Operator Model Dealer Name	 	Serial Number Remote Control I	Model
Dealer Address City		State	Zip

CORRESPONDENCE WITH FACTORY MUST INCLUDE DATE / MFG. NO. (LOCATED UNDER LENS OF POWER HEAD)

Customer Service

Or Visit Our Website

1.800.929.3667

http://www.overheaddoor.com

SAVE THESE INSTRUCTIONS



\$452,750



VIEW SPECS

VIEW PHOTOS



#### Overview

The Phantom is not only the ultimate status symbol, it's the Holy Grail of handcrafted luxury automobiles. Its decadent design is derived from an aluminum structure that rides atop an air suspension for euphoric comfort. Want to show the world you've arrived? You need a Phantom.

#### **Engines, Ride, and Handling**

Prodigious power is provided by a 563-hp twin-turbo V-12 paired with an eight-speed automatic and rear-wheel drive. Acceleration is brisk, but Rolls-Royce's claimed 5.1-second zero-to-60-mph time isn't anything you'd appreciate your chauffer trying to replicate; the Phantom is better suited for wafting along with smooth, steady inputs to throttle and steering. To say that the ride is smooth would be an understatement: The Phantom practically levitates over the road and features a pothole-spotting camera that helps the suspension adapt to road imperfections in real time.



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#### Read More About the Phantom

All About the 2018 Phantom





Driven, Wafted: Rolls-Royce Phantom VIII



We Check Out a 1927 Rolls-Royce Phantom





#### Interior and Technology

An interior tailored for kings can even be adorned with a custom-artwork dash. Acres of wood, real metal accents, and vast expanses of fine leather cover nearly every square inch of the cabin. Rolls-Royce offers both a standard- and long-wheelbase version of the Phantom, with the latter being 8.6 inches longer, much of which is offered as additional rear-seat legroom. Rear-hinged coach doors open to allow graceful ingress and egress to the rear seat where passengers can be treated to a myriad of luxuries such as deep-pile carpeted floor mats, power-adjustable seats with massage, a refrigerated console compartment, and remote controls for the car's infotainment system. Its dizzying array of optional tech includes night vision and a distinct laser-light system, but Rolls-Royce also offers more mundane driver-assistance features such as forward collision and lane-departure warning as standard.

# **READ NEXT**



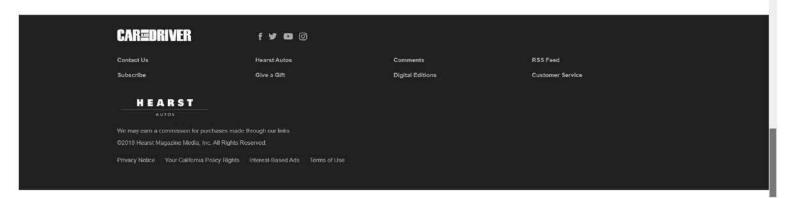


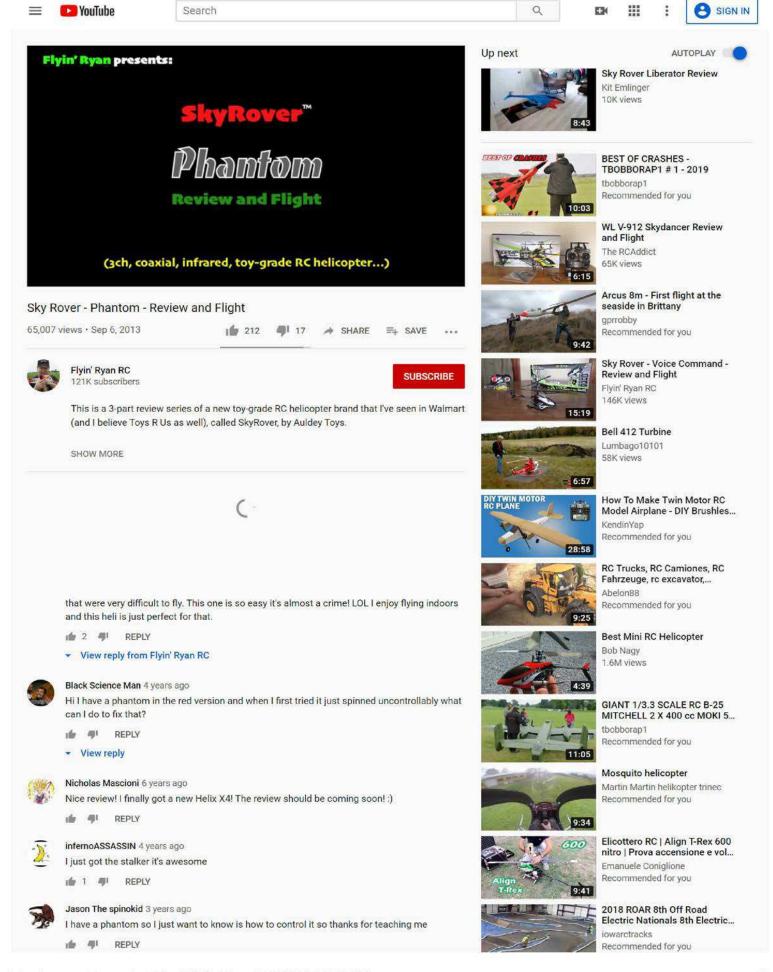
View Every Angle of the 2019 Rolls-Royce Cullinan

View Rolls-Royce Ghost Zenith Photos

#### Join the Conversation

Show Comments







sabrina Y 5 years ago

Great reviews. Found all 3 didn't know which one to go with for my son. Thanks to this I'm going with this on. Thanks!

1 9 REPLY

View reply from Flyin' Ryan RC



Flyin' Ryan RC 6 years ago

Indeed! It flies really well, and the auto-hover is pretty unique.

Thanks for watching, Tab!

# PI REPLY



Flyin' Ryan RC 6 years ago

Thanks! And cool, looking forward to your review! What do you think of it so far?

REPLY



iamthomastommy 6 years ago

I enjoyed your review series on these three helicopters. Thanks for doing them. Have you tried flying these outdoors? If so, did you have problems with interference since it uses IR?

I REPLY



Aaron Seville 3 years ago

I have the same one

1 4 REPLY



Derpy Sanbish 4 years ago

Also you need a particular type or battery. (most expensive)

REPLY



**0217** 4 years ago

Hey flyin Ryan can u help me my helicopter keeps going backwards when I just keep it still in flight

# PI REPLY



Sandbox Tree 4 years ago

Hey,I have a Stalker heli by Sky Rover and I was wondering if my transmitter would work with the Phantom?Because I want one of that!

i ≠ REPLY



Flyin' Ryan RC 6 years ago

LOL! I better keep these locked up, just incase they become sentient. :)~

I REPLY



no u 3 years ago

hi flyin ryan i jave the phantom but it keeps on moving left and right on its own

# FEPLY



ihab abdelhady 5 years ago

Thanks for the great reviews, I saw phantom navigator and the exploiter last night at walmart and was about to with the last one as it has radio control and outdoor capabilities, but after I saw your reviews of these three helis I decided as a new RC heli person to start with Phantom, thanks again. Also if you can help! do you know RC heli sim works fine with windows 7 with Read more

in 1 91 REPLY

View reply from Flyin' Ryan RC



SweetLife WithGio 3 years ago

How do you get the remote to work I can not get the remote to work



Flyin' Ryan RC 6 years ago



Sky Rover - Exploiter S - Review and Flight

Flyin' Ryan RC 163K views



Sky Rover - Dark Stealth -Review and Flight

Flyin' Ryan RC 63K views



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Sky Rover - Navigator - Review and Flight

Flyin' Ryan RC 48K views



Sky Rover - Aero Spin - Review and Flight

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nuttcaze 507K views



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furulevi 936K views



Thanks! I'm glad you enjoyed them. :) I haven't tried these outdoors, but experience with other infrared RCs tells me they won't work in sunlight. And coaxials aren't the best at flying forward in wind. I could try the one with headlights in the dark though, that may work decently. :)

REPLY



Flyin' Ryan RC 6 years ago

REPLY

Indeed!

か 年



Discover RC 6 years ago

Or secret Chinese military technology leaked into it...very mysterious :)



JULYUCH DEUCH J YEURS UND

hi my name is Jayden and I just got on this morning for CHRISTMAS and it. is hard to control.

1 9 REPLY

View 2 replies from Flyin' Ryan RC and others



N3TH3R K1NG 3 years ago

I can't figure out how to charge it, what do I have to do to charge it?

**厚** REPLY

View reply from Flyin' Ryan RC



Flyin' Ryan RC 6 years ago

OHNO! :O Iol

I'll make sure to surround them with Air Hogs and Blades to keep them in check. :)~

i ■ REPLY



broyalty86 5 years ago

Hey awesome vids! I just got the Phantom in green I'm having a hard time tho... I use auto hover to learn the pitch and yaw but full tilt forward doesn't fly forward like in your video... When I take off it wants to go backward not straight up, was wondering if u have anytips, I can have no right control at all and the chopper drifts backwards.

REPLY

View reply from Flyin' Ryan RC



Monkey Disco 3 years ago

you should show how to set it up because my hellacopter is not working and I followed the instructions when I try to fly it nothing happens

i ■ REPLY



Jeremy Dockter 4 years ago

I just bought one. It doesn't go forward much at all on slow. Once I turned it to fast though it was much more fun. It's my first helicopter. I used the auto hover feature a couple of times until I got used to the controls. It's a lot of fun. I chase my wife and child around.

i 1 €! REPLY



TheRelaxingTakeo 4 years ago

As soon as you got it out the box did you make any adjustments on the left and right thing on the back of the controller.

491 REPLY

View reply from Flyin' Ryan RC



manuel villagomez 5 years ago



Toy Grade Versus Hobby Grade RC Helicopters

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John Salt 204K views



Phantom RC Helicopter from World Tech Toys

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RC RC RC!!! @ 5.4M views



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EB Brands - Iron Man Flying RC Extreme Hero - Review and...

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Flyin' Ryan RC 18K views



Air Hogs Gyroblade - Review

and Flight Flyin' Ryan RC 7.7K views



WLToys Cessna 182 RC Plane

Unboxing, Build, Review, and... GBLvnden's RC 1.4M views



5 Fastest Robots In The World

Tech Joint @ Recommended for you



JWM 2013. The second championship title!

RUSJET Recommended for you



Phantom 2 Vision + Quick Start & Tips - HeliPal.com

HeliPal Recommended for you



Teach you cardboard making remote control robot...

Klay Machinery Recommended for you

I love it

血1 引 REPLY



Nicholas Mascioni 6 years ago

It's great! The USB charging cable is really a great feature and the stunts are amazing!



Flyin' Ryan RC 6 years ago

Yep! Quite impressive for only \$25.

REPLY



Zashi Okami 4 years ago

hey I don't know why mine the main blade is spinning and even the body of it is spinning what can I do.

直 學 REPLY



Dorothy Weaver 6 years ago

I got one like that

命 引 REPLY



Dragon Slayer 6 years ago

I like this r/c helicopter is pretty cool I think I might try and pick one up

481 REPLY



iwannabefamousLA 4 years ago

What's the light for on the bottom could that be the sensor?

A REPLY

View reply from Flyin' Ryan RC



Earthling1984 6 years ago

For the price that is very nice!

in ₱ REPLY



Angie Threatt 6 years ago

on all of mine on take off i i to press forward a bit on them. but i am in love, i am guessing that while flying you can turn the lights on and off?

# FEPLY



Ahmed Ali 4 years ago

Flyin Ryan is Awsome

1 9 REPLY

▼ View reply from Flyin' Ryan RC



Alfons Ilmi 4 years ago

Hi, i just interested with this toy, so i have a question, how many extra weight that it can bring it up?

A REPLY

View reply from Flyin' Ryan RC



broyalty86 5 years ago

Yes sir it does... I actually looked closely the landing gear has little plastic ends and I lost both on the front so I pulled off the back ones and it's level again, thanks for helping tho, and keep up the vids my son and I love them

1 3 REPLY

View reply from Flyin' Ryan RC



like maybe it's somehow taking ground effect into account. I'm not really sure. It seems to take longer, and have a harder time finding the hover when launched from anywhere but the



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Eachine WIZARD X220S FPV -Full Review - [Unboxing /...

Dustin Dunnill 503K views



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SRS-RC

Recommended for you



BIG RESCUE RC BAOT&YAWL IN FUNCTIONALITY ON PON...

SRS-RC

Recommended for you



How to make Quadcopter at

Home - Make a Drone

NDA Hack @ Recommended for you



Driving my RC car at night in ISTANBUL traffic

Abdulkadir Enes Kıral Recommended for you



ANIMALS VS DRONES (Drone Crash Compilation)

Lama Volant

Recommended for you



10 RC Newbie Mistakes To Avoid - RC Driver

RCDriver\_Online Recommended for you



GoolRC T47 FPV Drone Foldable with Wifi Camera Liv...

Peter von Panda 977K views



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AKHIL S AMIYAMVELIYIL Recommended for you



NURK by Yo2B Production

Yo2B Production 2.7M views



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Ready Set Drone 1M views



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Calvin Wallace Recommended for you



RC Flying Lego Airplane PeterSripol @

Recommended for you

#### Read more

i ● ● REPLY



#### Ahmed Ali 4 years ago

I have the voice command for 45\$

REPLY

View reply from Flyin' Ryan RC



austin hartman 5 years ago

Charge \*\*\*

A REPLY



#### Zachary TurtleSlayer 4 years ago

@Flyin' Ryan RC I just ordered online and as you know everything is like 10-25 dollars cheaper if you order online but anyway I got it off walmart and I picked the color I wanted and it was 10 bucks but they showed the navigator but it says in description sky rover phantom help?

491 REPLY



#### Nhu Hoang 5 years ago

Where did you get it at?

REPLY

▼ View reply from Flyin' Ryan RC



#### BenFmt 5 years ago

This question may have been already asked but, is it only in Toys R Us and Walmart where you find these helicopters?

Anyway, great video and I think i'm gonna buy it :D

REPLY

View reply from Flyin' Ryan RC



#### Wezel LispProductions 3 years ago

can this be flown outside?

461 REPLY

View reply from Flyin' Ryan RC



#### Flyin' Ryan RC 6 years ago

Cool, it's a fun little heli. :)

# REPLY



#### Kimberly Phelps 5 years ago

Ryan: My stepson recently purchased this product. Can you give me the basic run down of charging and connect the helicopter to the transmitter? How do I know its charging? How do I connect it?

All I REPLY

View 3 replies from Flyin' Ryan RC and others



#### Mr.Random&Boredom 2 years ago

where is the hover button?

REPLY

View reply from Flyin' Ryan RC



#### K. Parada 3 years ago

Hi, I just purchased this RC PHANTOM. I've been attempting to fly it, but all it will do is spin in circles right from the take off. As soon as I give it throttle the helicopter body will begin to spin; it will go up, but obviously is uncontrollable. I've messed with the trim a ton and as I crossover over in the middle of the trim wheel it just makes it spin in circles clockwise or Read more

A REPLY

View 2 replies from Flyin' Ryan RC and others



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#### Hovering a Helicopter is Hilariously Hard - Smarter...

SmarterEveryDay @ Recommended for you



#### REAL Fortnite RC Battlebus!!!

PeterSripol @ Recommended for you



#### RC Stunt Car RC Car Gesture Sensing Twisting Vehicle Drif ...

Naresh Lal 50K views



#### 알씨라이프 (www.rclife.co.kr) 4월21일 James Bond 007 교...

TEL:02-571-8941일씨라이프 Recommended for you



#### WORLD CHAMPION RC Helicopter pilot Demonstrate...

ArmedForcesUpdate © 2.7M views



#### HPI-Racing - Baja Q32 - Review and Run

Flyin' Ryan RC

438K views



#### FLYING Walmart RC boat MODS!!!

PeterSripol @

Recommended for you



#### Cara Menerbangkan Drone Dji Mavic Pro

CTD Cah Tukang Dolan

Recommended for you



#### 80Mph Racing Drones made from Lego Technics

The King of Random @ Recommended for you



#### My first RC Boat \*\*Brushless!\*\*

Kevin Talbot Recommended for you



#### Pixels Music Entertainment 3 years ago

Flying Is Easy I'm Really Good At Flying Helicopters I don't have a Channel That Shows you how to fly or any Thing about Helicopters But Thumbs Are way Easier Than you Think

♠ ₱ REPLY



#### Kimberly Phelps 5 years ago

He lost the instructions...the reason for me asking...

REPLY

View 4 replies from Flyin' Ryan RC and others



#### Claus Von Bülow II 4 years ago

Ryan,i just got home from walmart and picked up the stalker, its charging as im watching your vids! im getting back into flying these things there so cool and fun to fly around the livingroom and driving the dogs crazy! also the wife! thanks for your vids. Bob K. from las vegas.

1 9 REPLY

View reply from Flyin' Ryan RC



#### ax gamer 4 years ago

how many rc do you have Ryan

i → FI REPLY

▼ View reply from Flyin' Ryan RC



#### Flyin' Ryan RC 5 years ago

Yechan Kim, YouTube will not let me reply directly to your comment, so here is my reply:

Yes, it has a gyro. I have not flown any of the designs other than the one shown in this video. I would imagine they all fly the same though. :)

i 1 ∮ REPLY



#### Discover RC 6 years ago

Yeah I just wouldn't want to be they guy with all three. They most likely work as a team. :O



#### austin hartman 5 years ago

Mine did not come with instructions for some reason and I just got it. How do uncharged it?

Do u need to have the remote on I can't tell if it's broke or just using charging right plz respond





#### Discover RC 6 years ago

Cool to know this one is your favorite-I guess with the auto hover engaged you have to do some canyon flying through furniture. If you took off from a table with auto hover would you be 3 feet up from that? Nice review! Price is crazy!!!

A REPLY



#### Geomegetron 5 years ago

Can inferred fly outdoors?

View reply from Flyin' Ryan RC

0

each model comes in a couple different designs. :)

F FI REPLY

Jeremiah S 3 years ago

my green phantom flys great outside



10 Most Amazing Drones | दुनिया के सबसे ज़बरदस्त ड्रोन्स!

TTI Hindi Recommended for you



# The BEST Low Cost DRONES for BEGINNERS (part 1) - My...

CAPTAIN DRONE 567K views



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#### How To Make RC Model Airplane Fun-Fly Style. DIY RC...

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Parrot MiniDrones Jumping Sumo & Rolling Spider

Parrot 3.2M views



BEST Beginner RC Plane 2018 -HobbyZone Carbon Cub S+...



QFO Labs Quad Fighter (with "Mimix" Tilt-To-Fly controller) ...

Flyin' Ryan RC

41K views



Estes Proto-X (World's Smallest Production RC...

Flyin' Ryan RC 738K views



Heli-Max - 230Si - Review and Flight (Indoors and Outdoors)

Flyin' Ryan RC

55K views



Fayee - FY530 - Review and Flight

Flyin' Ryan RC 29K views



Tactic - AnyLink 2 - Review and Flight Demo (with Spektrum...

Flyin' Ryan RC

17K views

491 REPLY

View 5 replies from Flyin' Ryan RC and others



Mikel Meling 5 years ago

My bottom Rutter stopped please help

# REPLY

View reply from Flyin' Ryan RC



Eden Shaw 4 years ago

I just bought one for my son and we let it charge for an hour or so and it wont get off the ground. Pressing the auto button or even the throttle it just spins around. I changed the batteries twice and still it wont take off. Also, I saw that you didn't need to straighten out the wings before you flew it, we have to every time other wise the wings will hit each other and Read more

(金) 母( REPLY

· View reply from Flyin' Ryan RC



Flyin' Ryan RC 6 years ago

I've flown each of mine 5 or so times, and they are still working like a charm. And the spare parts will make them last even longer! Air Hogs generally only come with a spare tail prop. Being able to replace linkages and one main top and bottom blade on these is excellent. I think the main thing Air Hogs has over these is their customer support. But, I don't foresee Read more

REPLY



Flyin' Ryan RC 6 years ago

The auto-hover really is a pretty cool and unique feature. I sure hope to see more spare parts become the norm. It's in the manufacturer's best interest, as it would keep people from returning products after one good crash.

Read more

REPLY



mtctookie25 6 years ago

Looks & flies not like the price!

· 与 与 「 REPLY



Flyin' Ryan RC 6 years ago

No, unfortunately, the lights are on all the time on this one.

# FI REPLY



RC-Collector 6 years ago

I saw these at Walmart today. They are a better value than Air Hogs if they can last more than a few flights.

REPLY



mminks11 5 years ago

I purchased one for my son last week... It would not trim. Seems as though it was either full left or right trim. No fine adjustments. Walmart replaced with a new one... It does the same thing! Anyone else have that problem?

i ■ REPLY

View 2 replies from Flyin' Ryan RC and others



It has a little infrared sensor on the bottom for the auto hover. I was out messing with it and when I put my hand under it, it flew higher and when I moved my hand it flew lower. Pretty nifty for \$25 Great deal.

REPLY

View reply from Flyin' Ryan RC



moolikeacow2 6 years ago



Eachine - H8S 3D - Review and Flight

Flyin' Ryan RC 19K views



Gin - H7 - Review and Flight

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WLtoys - V636 Skylark - On-The-Fly Review

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DJI MAVIC PRO Review - Part 4 [6.4 Mile In-Depth Parabolic...

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ABSOLUTE BEST BEGINNER FPV DRONE PACKAGE of 201...

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Flite Test : RC Planes for Beginners: How to Choose -...

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DJI Mavic Mini - Return To Home Test [Precision Landing]

Ready Set Drone Recommended for you



XINLIN X191 Drone Murah GPS FPV Dapet Monitor :D

Cgit Einsteins

Recommended for you



I nat auto nover is pretty cooi! Yean, too pag about the thump pags on these. Other than that, very nice for the price.

491 REPLY



#### speaktruth inlove 4 years ago

I bought two of these for my kids. One seems to work fine. The other one is in spin mode. It won't stop spinning. Could you please help me figure out what's wrong with the other one? There is a button on both controls that says right and left turn, but the one with which I am having problems just wants to spin in either direction, depending on where you set it. Thanks. Read more

面1 引 REPLY

View 3 replies from Flyin' Ryan RC and others



#### Jack Tribble 4 years ago

Can somebody help me find a replacement parts dealer? The lower blade clasp broke on one end and is still connected, but has a crack and I believe its the cause of my copter flying to one side dramatically on takeoff. The copter is now nonoperable and I love it so much. I've found some replacement parts but the serial number doesn't match. Somebody please help! Shoot Read more

# F REPLY



#### FNL 6ixiid 4 years ago

Mine was stalling, i flew it up any i pulled the throtle back down, and it kept flying up and up till 100 ft and it went out of range and it fell from that height and came all the way down and broke, 27 dollars wasted, ik now to pick somthing else when i buy one

View 4 replies from Flyin' Ryan RC and others



#### collins 2002 4 years ago

I just bought the sky rover stalker from Walmart I think its pretty much the same thing without the auto hover. its my first flying rc with the gyro. I used to have an old air hog but had toooo much trouble flying it because ive only got one hand and I was worried about the stalker but I was flying it in just a few minutes. could you tell me is the tail rotor and the gyro the only diff Read more

FEPLY REPLY

View reply from Flyin' Ryan RC



#### David Taylor 4 years ago

Why it hovers is because if eney light gets in the way of the signal it will not respond. I had two of those things and they flew of. They were both in Cotopaxi, co they must be in Sulida,co

10年 年 REPLY

View 2 replies from Flyin' Ryan RC and others



#### Flyin' Ryan RC 5 years ago

Yechan Kim.

It has some metal parts, but also a lot of plastic. It is quite durable, and comes with several spare parts. How long it can last really depends on how you care for it, how often you fly it, Read more

值 1 号 REPLY



#### TheBigb1973 4 years ago

Hey ryan. What if u press the auto hover while flying? Will it hover in place higher? I saw this at wally earlier. The box also said somethin about adjusting the hight so u dont hit the ceiling? I bought the airhog gyroblade. I actually watched ur video on it in wally lol. Im not sure i like the air hog one tho :-/

16 9 REPLY

View reply from Flyin' Ryan RC



#### Flyin' Ryan RC 5 years ago

Yechan Kim, you need to figure out how to allow people to reply directly to you. heh

There are a lot of reasons that could've happened. It was likely damaged in a crash, and either

a motor or gear has gone bad. Could also be due to damaged rotor blades.

1 9 REPLY

View reply



2011Runner 5 years ago

I bought my brother the phantom for his bday a few days ago and everything was woking fine until today. It spins out of control and the trim is extremely touchy. I'm assuming this a normal problem with these indoor helicopters but I haven't found any solutions yet online. Help please?

I REPLY

View 3 replies from Flyin' Ryan RC and others



AustinParanormalResearch 4 years ago

I believe the copter is simply using ground effect for auto-hover. Once yours auto-hovers, place your hand underneath and you'll see that it climbs. So, in theory, if you approach objects very slowly in such a way as to stair-step climb you could get over couches. I got mine to raise from a magazine rack, then a chair, but haven't mastered the back of the couch yet.

· View reply from Flyin' Ryan RC

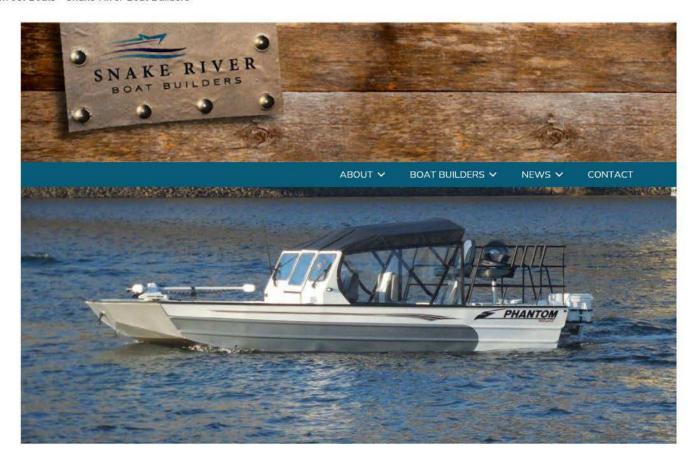


Thomas Hernandez 5 years ago

I don't have this one I have the stalker. It is a basic version for 20S but today when I was taking off and it went forward like yours went backward and one of the skids caught the rug edge and the counter balance on top of the router snapped. Would you know of a way to replace or fix it? It shaped flush with the square mount. Thanks and awesome videos.

# # REPLY

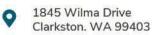
View 7 replies from Flyin' Ryan RC and others

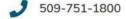


# **Phantom Jet Boats**

WHEN ONLY THE BEST WILL DO

Phantom believes that one of the most important features of a jet boat is the capability to handle all of the challenges from any river that the owner chooses. The company employs crew members with years of experience from building boats designed to run the shallowest rivers that the Northwest, Alaska, and Canada have to offer. Phantom is also proud to announce that they became part of the Hells Canyon Marine family in 2016, which will allow them to combine their durable, go-anywhere design with HCM's innovative and modern engineering/manufacturing process. Take a look at their website, or give them a call, to discover which boat model will fit your desired environment. At Phantom, all challenges are accepted.



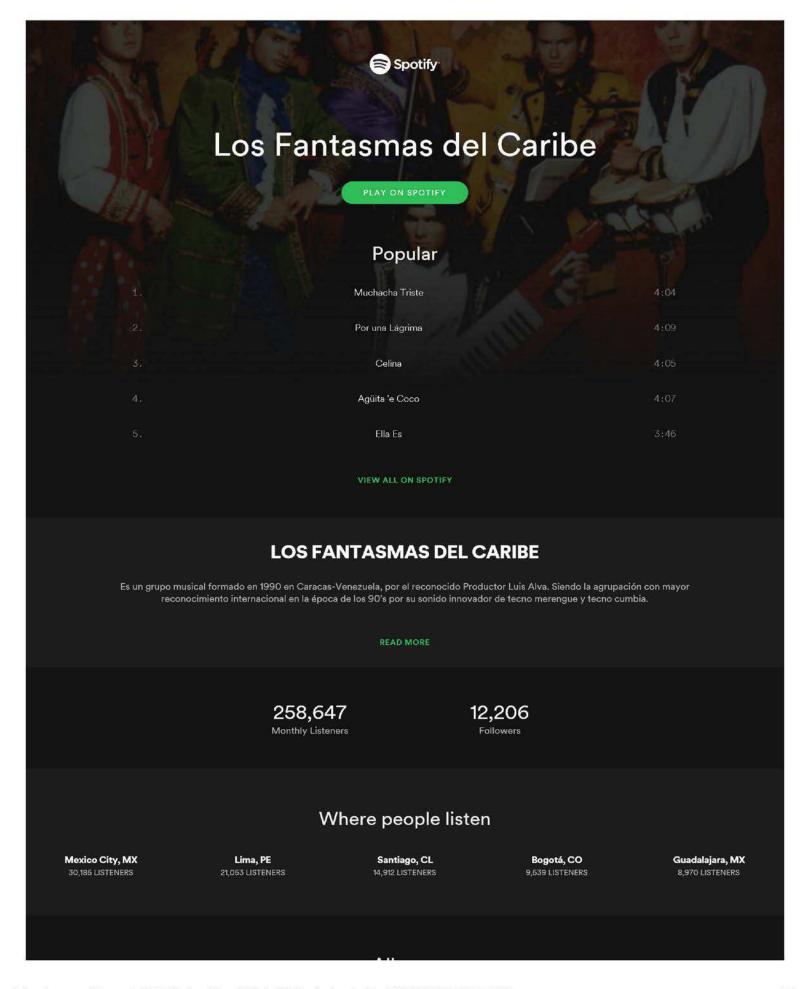








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#### Albums

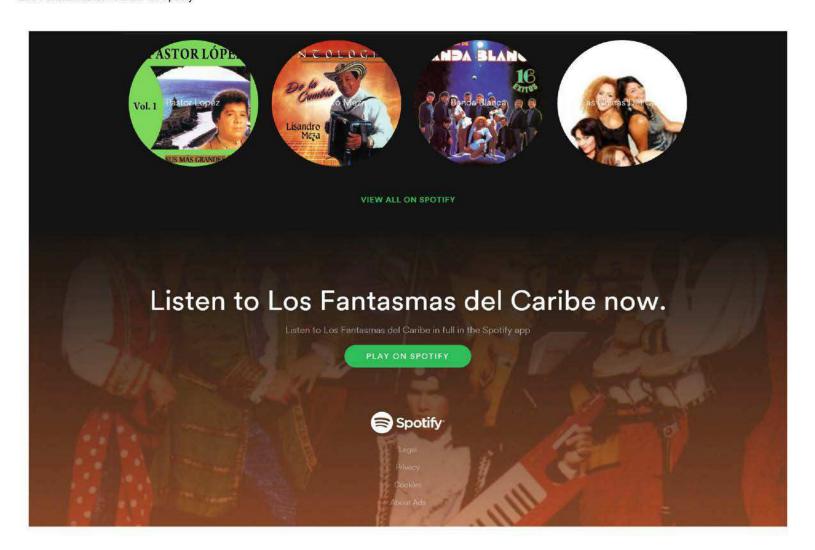


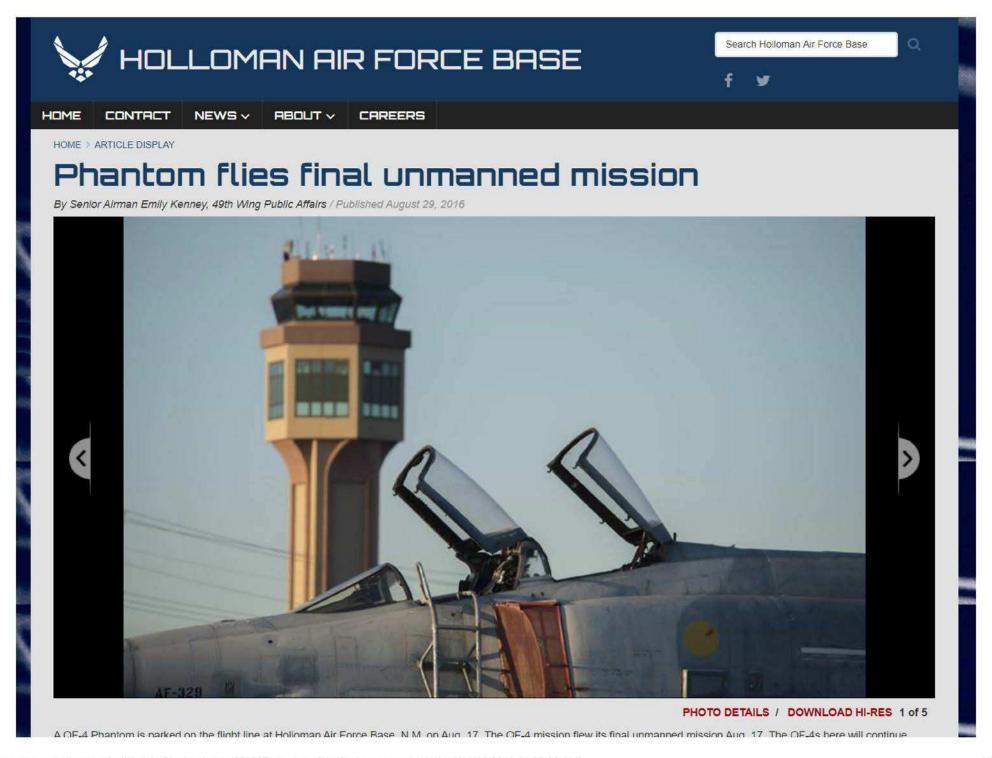
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flying manned missions until the official end of the QF-4 program in December 2016. (U.S. Air Force photo by Airman 1st Class Randahl J. Jenson)



#### PRINT | E-MAIL

#### HOLLOMAN AIR FORCE BASE, N.M. -- --

The QF-4 Phantom flew its final unmanned mission in the skies above White Sands Missile Range on August 17.

During the flight, the unmanned aircraft served its primary mission as an aerial target and was shot at by an F-35 Lightning II from Edwards Air Force Base, California.

"Our mission is to provide those airplanes as targets for our Department of Defense and foreign military sales customers to test the next generation of weapons," said Lt. Col. Ronald King, the 82nd Aerial Targets Squadron, Detachment 1 commander. "Sometimes, that is a missile, sometimes a surface-to-air missile. For the final unmanned flight, we flew in support of an F-35 mission."

This flight served as the final unmanned mission before the QF-4 program ends later this year, and the 82nd ATRS, Det. 1 transitions to flying QF-16s.

"The QF-4 has been flying for about 15 years, and it has been instrumental in testing next-generation weapons and radar systems," said King. "We'll continue to fly them as manned aircraft until the end of the program, which is through December, but this is the last time we are flying it unmanned before we transition to the QF-16."

Holloman Air Force Base, N.M. is the only base with a QF-4 mission. However, the 82nd ATRS, based out of Tyndall AFB, Florida, has been flying QF-16s since September 2014.

"The aging fleet of the QF-4s and their limited capabilities against modern fighters have rendered the aerial target workhorse, Phantom II, at its technological limit," said Lt. Col. Ryan Inman, the former 82nd ATRS commander. "The QF-16 initiates the next chapter in advanced aerial targets, predominately in support of more technologically superior air-to-air weapons test and evaluation programs. The QF-16 will enable our leaner and more efficient Air Force to continue operations at maximum mission effectiveness while maintaining air superiority and global reach for decades to come."

However, as the Air Force prepares to transition to the QF-16 and bid its final farewell to the heritage aircraft -- the legacy of the F-4 will continue to fly on.

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"It's certainly bittersweet," said King. "The F-4 served faithfully in Vietnam and as late as the Gulf War. So, for it to be pulled out of the boneyard to continue serving its country is a testament to this airplane -- to the designers, the test pilots who first flew it, to the maintainers who've worked on it all these years -- what a testament to what they've been able to do, and what a great airplane it was. Forty-five years later, we are still flying these airplanes to test the latest and greatest equipment we have."

\*Information from an Air Force news story contributed to this story



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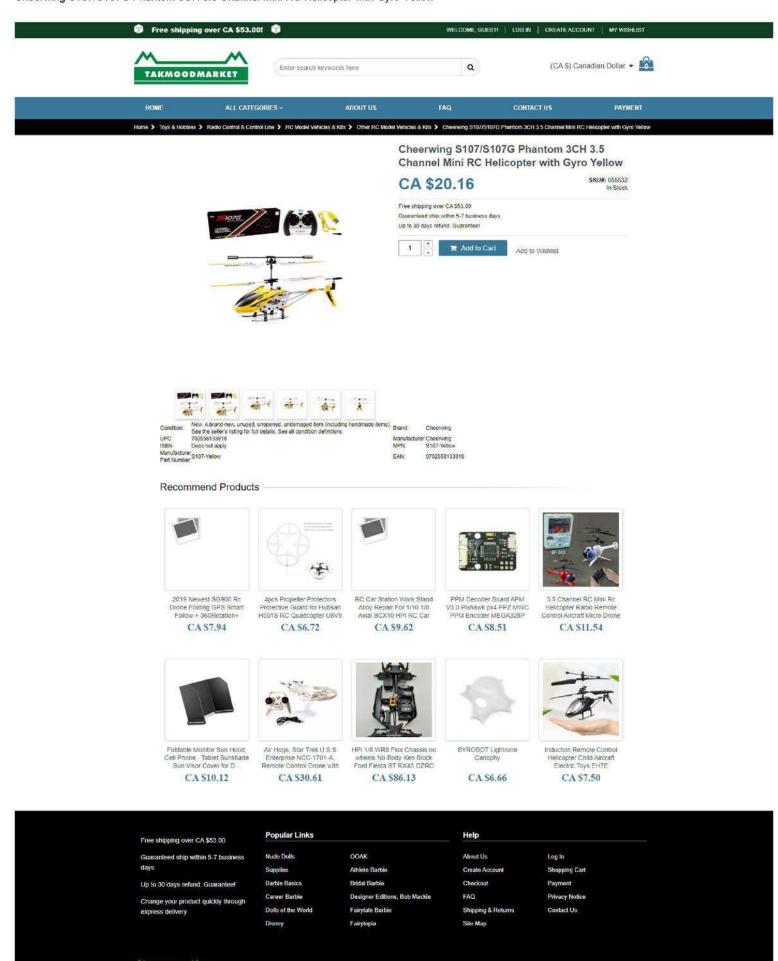
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Official United States Air Force Website



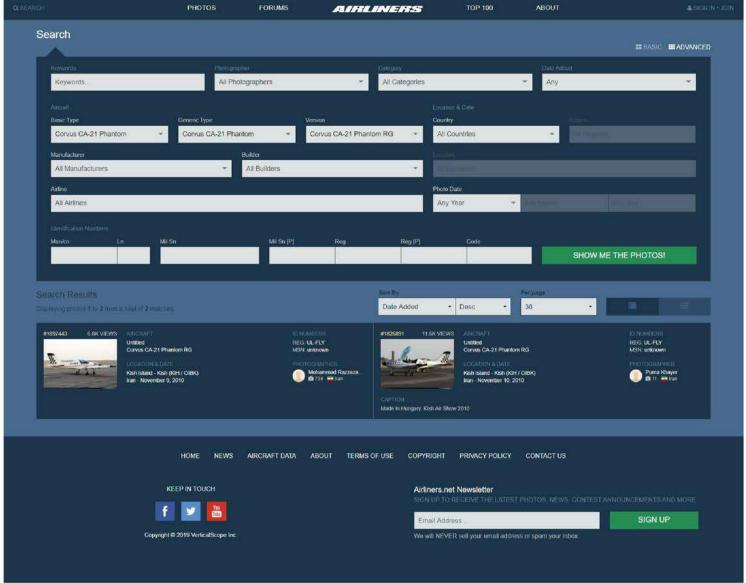
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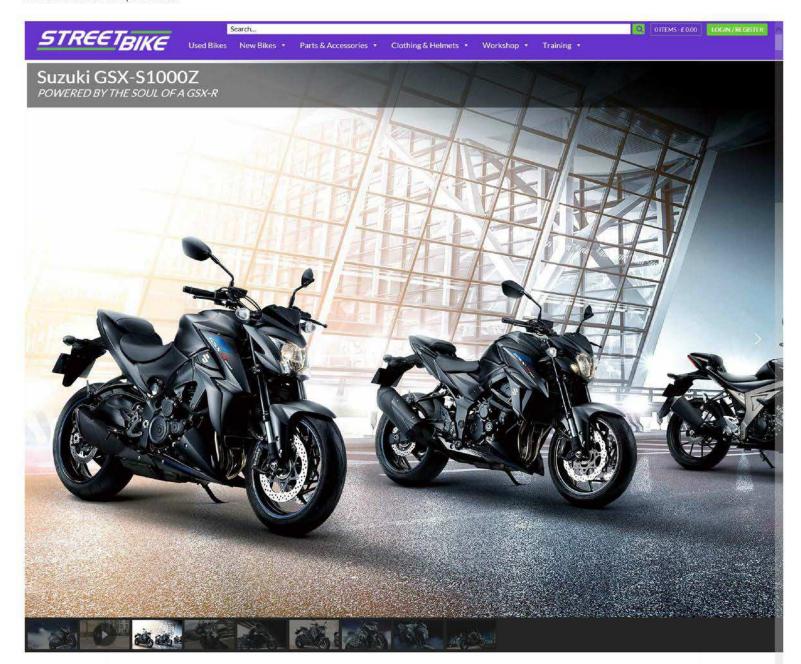
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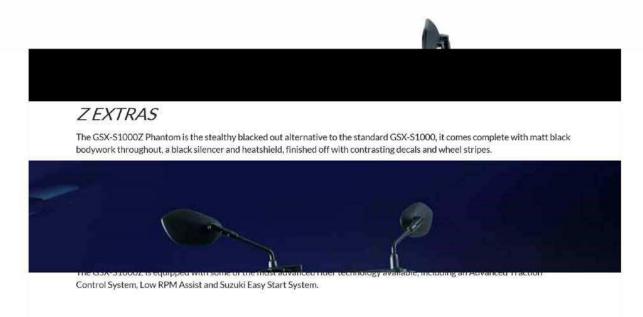
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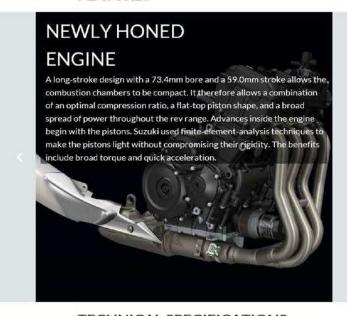
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- ▼ Dimensions and Weights
- ▼ Engine Specifications
- Chassis Specification

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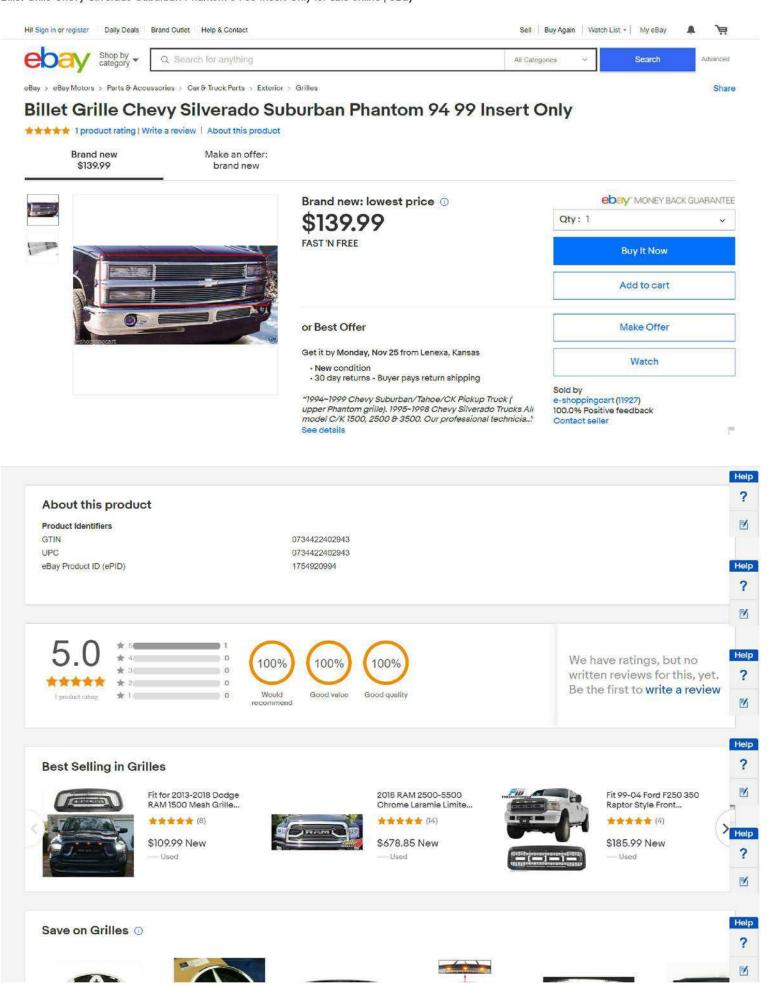
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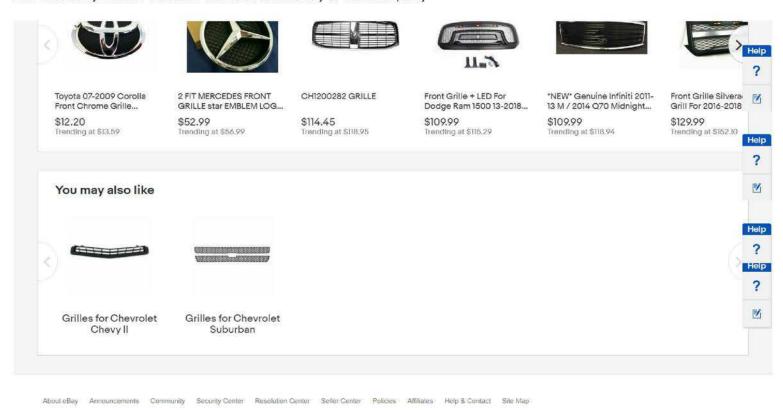
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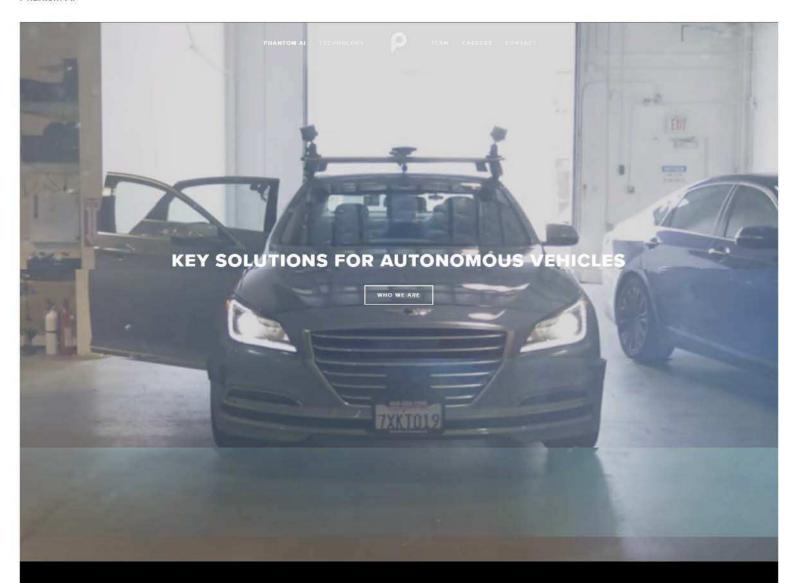
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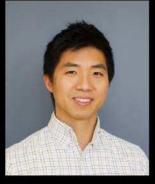


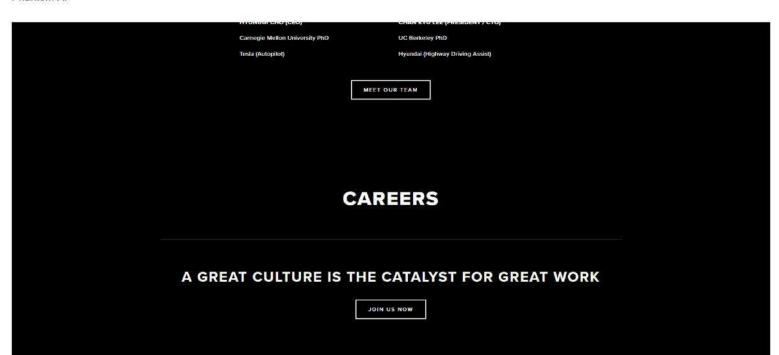
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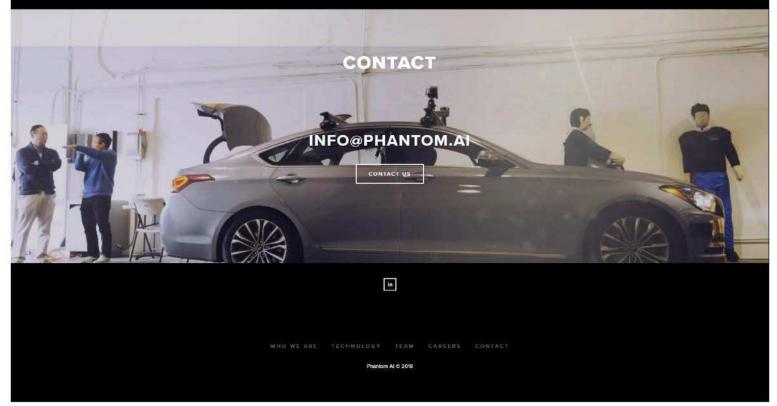
#### TEAM

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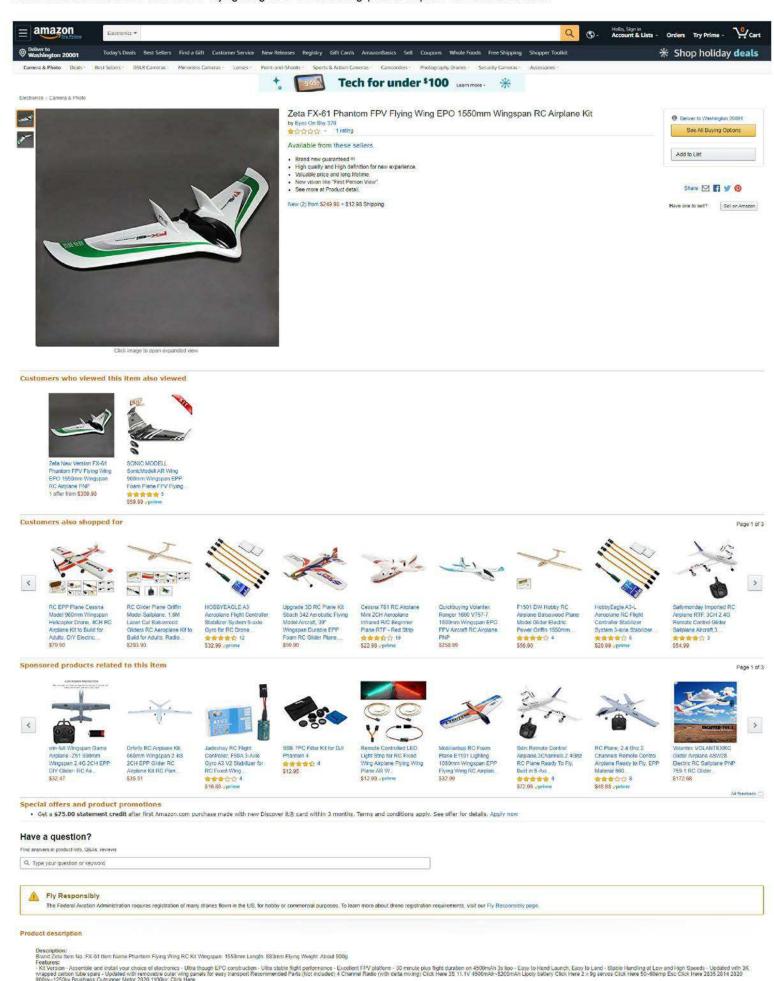








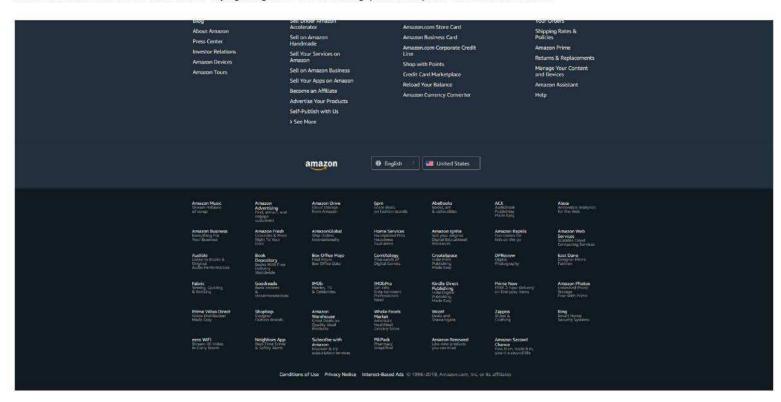


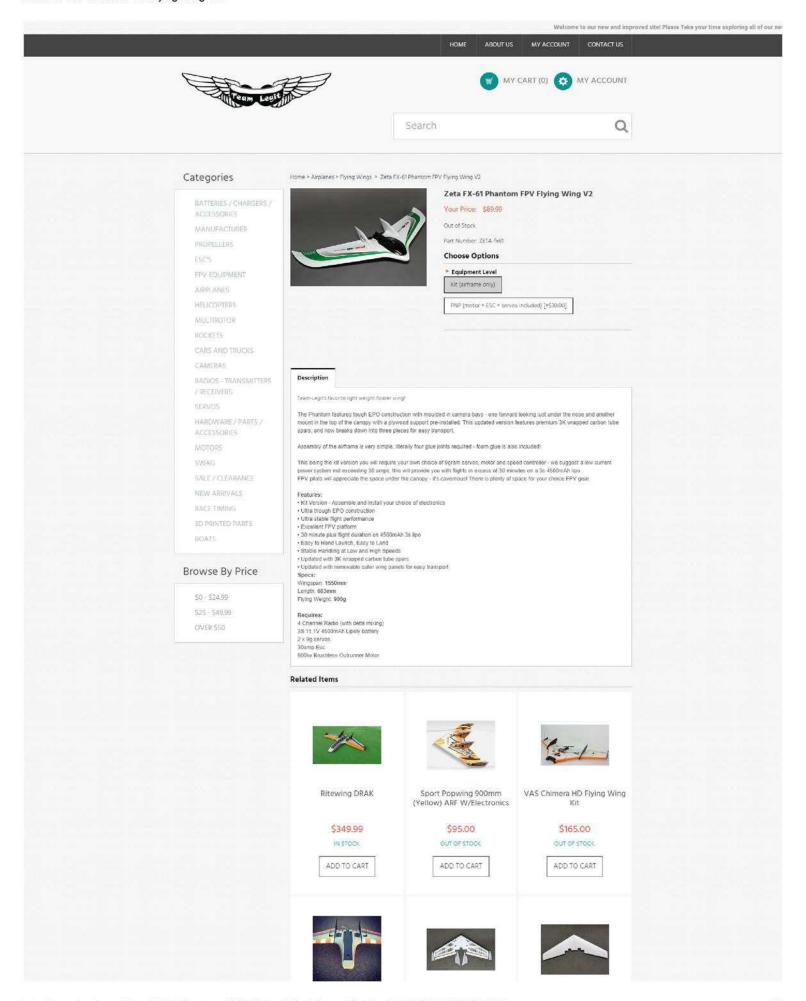


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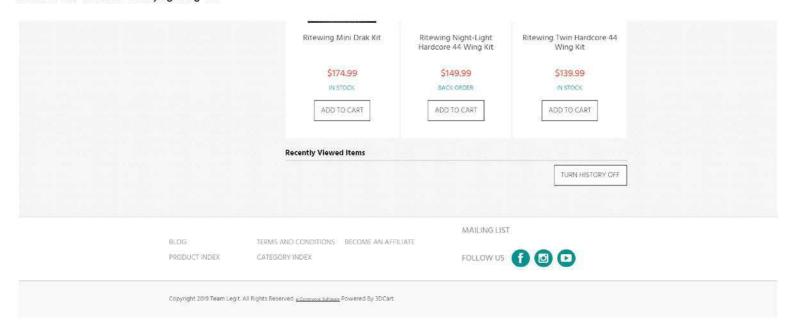


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#### Zeta FX-61 Phantom FPV Flying Wing V2



# Fontaine Trailer Company NEWS



Release Date: February 14, 2005

FONTAINE PHANTOM
ALUMINUM FLATBED TRAILER
BOASTS RADICALLY NEW MAINBEAM

HALEYVILLE, ALABAMA -- Fontaine Trailer, the recognized technology leader in the flatbed trailer industry, is introducing a new all aluminum trailer that promises to revolutionize the industry.

The new trailer, named the Fontaine Phantom™, features a totally new main-beam that is completely different from anything on the market. The patent pending design consists of an extruded aluminum main beam that eliminates welding between the web and the flange. The massive 12" flange is integral to the main beam and virtually eliminates flexing—even when the trailer is cornering under a full load! After more than a year of "outside the box engineering and real world testing" this revolutionary new design proves to be the lightest, strongest and most stable aluminum trailer ever built.

"Fontaine is the aluminum flatbed trailer expert. Nobody has been in this business longer. Nobody knows aluminum flatbeds better. And with the introduction of our Phantom Series, the flatbed trailer bar is raised to a new height," remarked Glenn Chambers, company president.

Fontaine Trailer Company offers a complete line of flatbed trailers for owner operators and fleets. For more information contact Buck Buchanan, Fontaine Trailer Company, 430 Letson Road, P.O. Box 619, Haleyville, Alabama 35565 800-821-6535 • fax 205-486-8985 • www.fontainetrailer.com

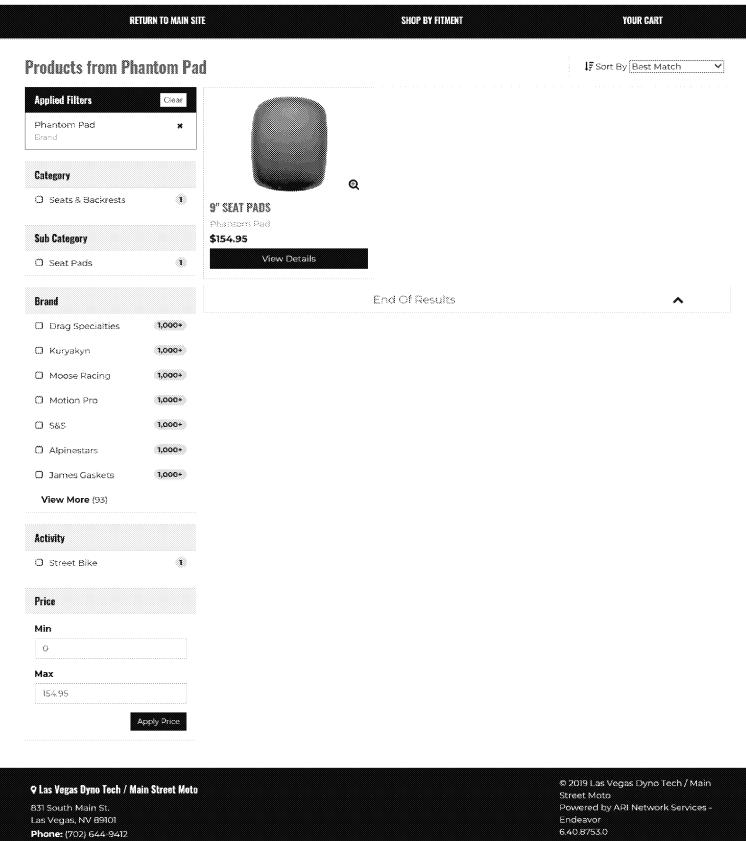
Fontaine is a Marmon Highway Technologies company. Marmon Highway Technologies companies support the transportation industry worldwide with a wide range of high quality products and services.

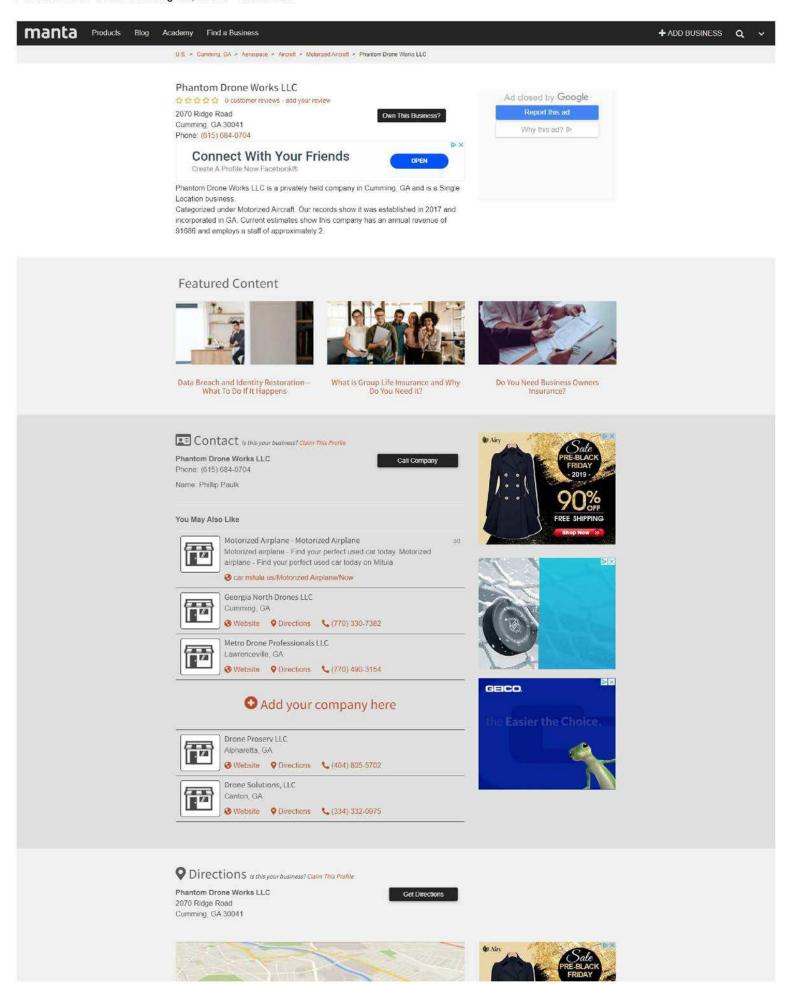
Marmon Highway Technologies companies are members of The Marmon Group, an international association of manufacturing and service companies with collective sales approaching \$6 billion.

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Sites Scanned	60+	
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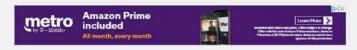




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# Toward 5G Deployment in 2020 and Beyond

NTT DOCOMO, INC. Takehiro Nakamura

Takehiro Nakamura NTT DOCOMO Toward 5G Deployment in 2020 and Beyond

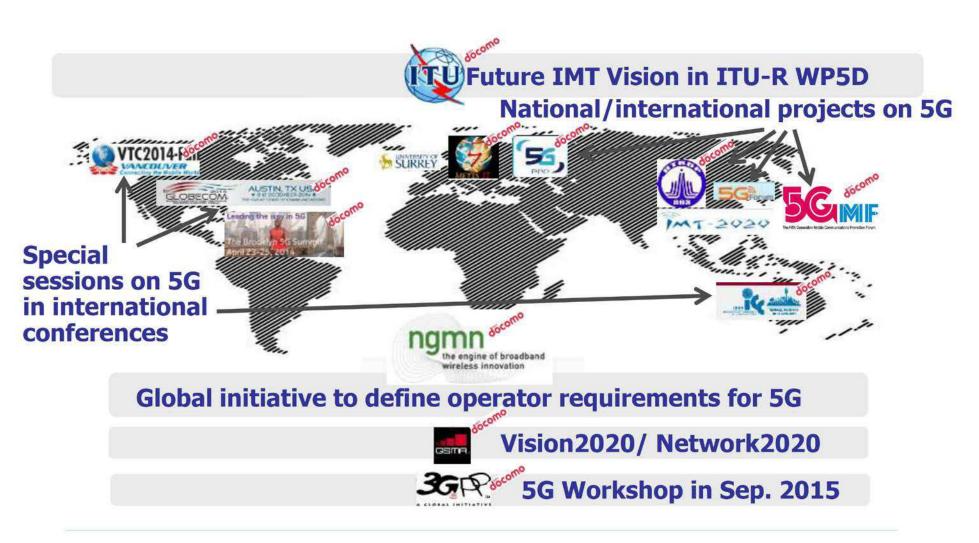
## Outline

- □ 5G Concept
- Timeline for 5G development
- 5G technologies and deployment
- 5G experimental trials

## **5G CONCEPT**

Takehiro Nakamura NTT DOCOMO Toward 5G Deployment in 2020 and Beyond

## 5G Global Trend



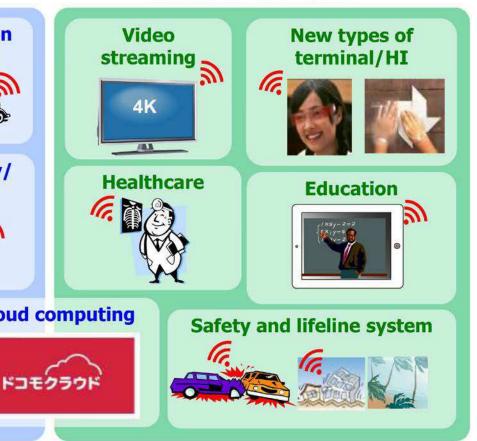
Takehiro Nakamura NTT DOCOMO Toward 5G Deployment in 2020 and Beyond

# Mobile Communications in 2020 and Beyond

# Everything connected by wireless



# Extended and enriched wireless services



Takehiro Nakamura NTT DOCOMO Toward 5G Deployment in 2020 and Beyond

# 5G Target Performance

5G radio access will provide a total solution for a wider range of requirements in 2020 and beyond

1000x capacity/km²

Higher system capacity

**5G** 

Higher data rate

Typical data rate: 100x faster
 (Peak data rate: > 10Gbps)

Massive device connectivity

• 100x more connected devices (e.g., Crowded areas, M2M services) Reduced latency

· RAN latency : < 1ms

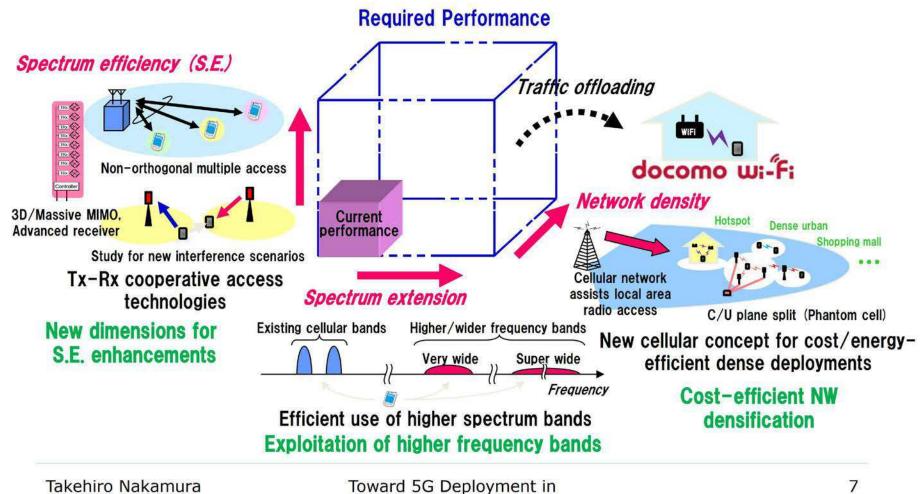
Energy savings & cost reductions

- Energy savings for NW & terminals
- Reduced NW costs, incl. backhaul

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### Directions of Evolution: "The Cube"

A set of radio access technologies is required to satisfy future requirements



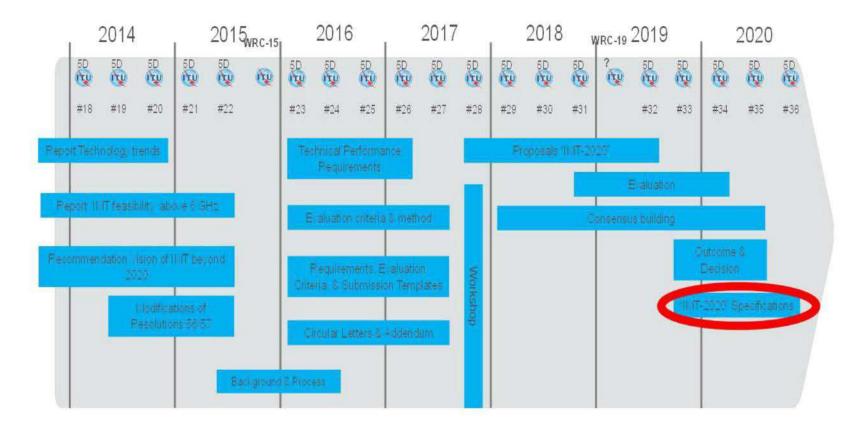
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# TIME LINE FOR 5G DEVELOPMENT

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## 5G Work Plan in ITU-R

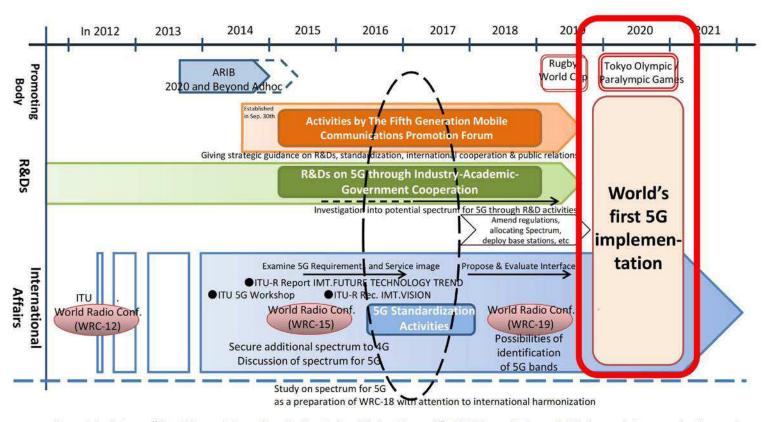
### ITU-R is targeting completion of 5G specification development in 2020



Takehiro Nakamura NTT DOCOMO Toward 5G Deployment in 2020 and Beyond

# 5G Commercial Requirements

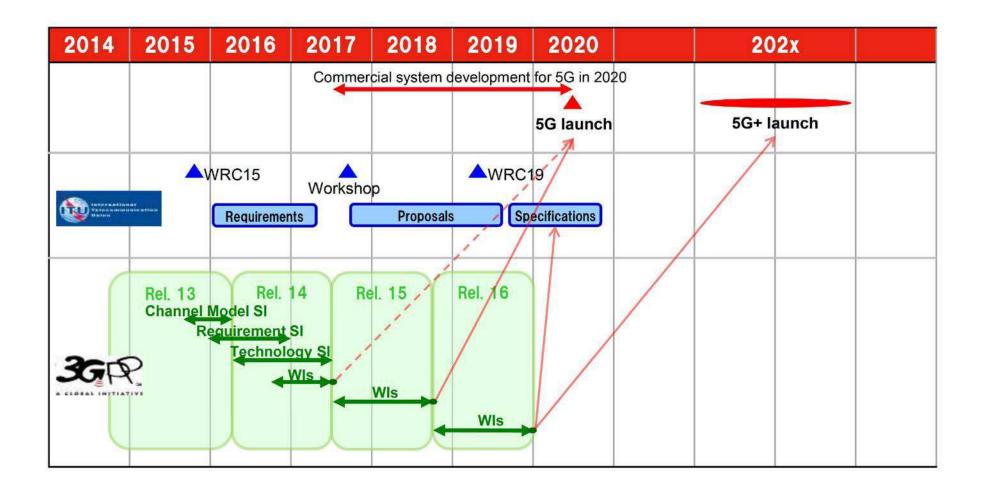
### Japan is targeting <u>5G commercial launch in 2020</u>



Translated from "Final Report from the Radio Policy Vision Council", Ministry of Internal Affairs and Communications, Japan, December 2014.

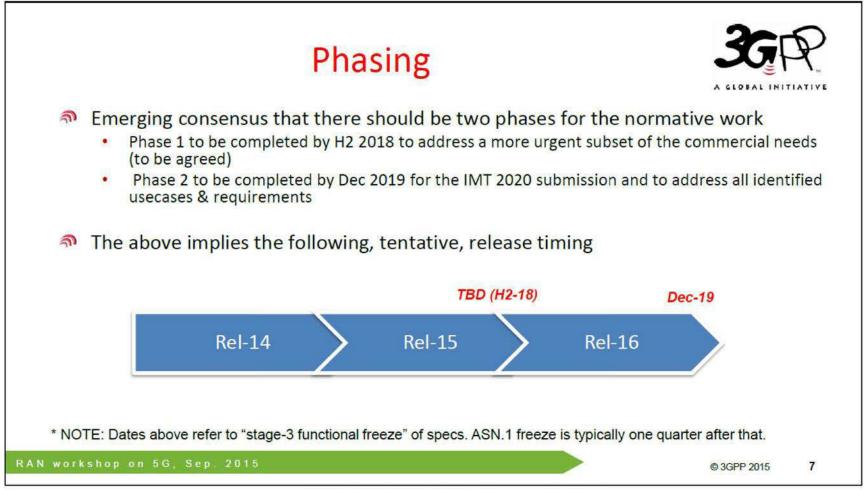
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## Time Plan for 5G and 5G+



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### 3GPP RAN Workshop on 5G in Sep. 2015



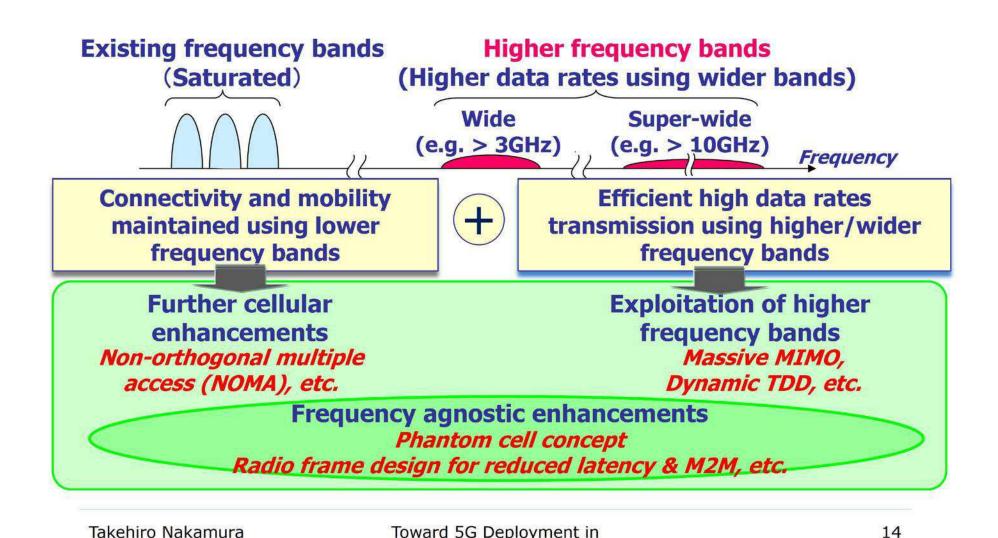
RWS-150073: RAN chairman's Summary of 3GPP RAN Workshop on 5G

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# 5G TECHNOLOGIES AND DEPLOYMENT

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## DOCOMO 5G Technical Concept

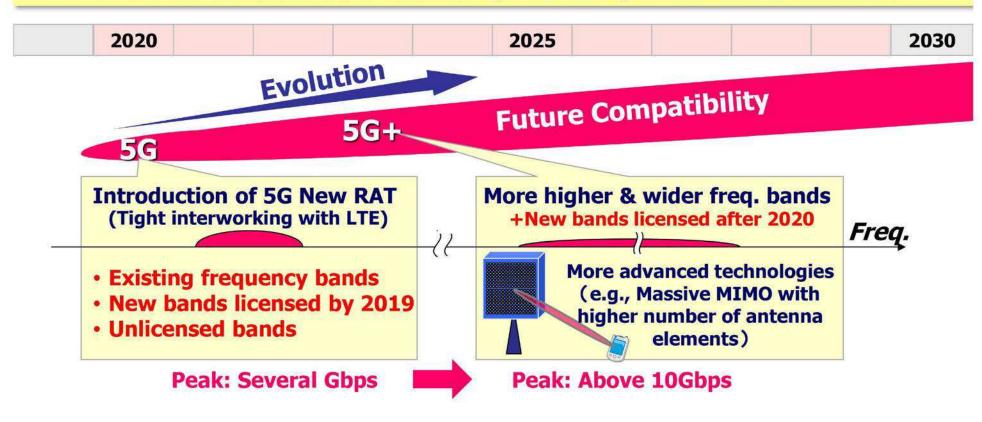


2020 and Beyond

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### 5G Phased Realization

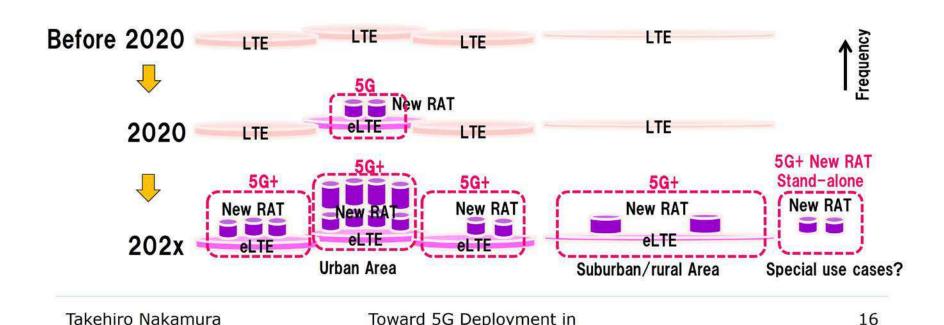
5G will evolve by incorporating new freq. bands and technologies
 → Future compatibility is key for system design to continue evolution



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### Deployment/Migration Scenarios

- In 2020, <u>5G</u> will be launched initially from areas, where higher performance is required, e.g., dense urban area
- In beyond 2020, deployment areas for 5G are gradually expanded while introducing additional technologies and frequency bands (= 5G+)

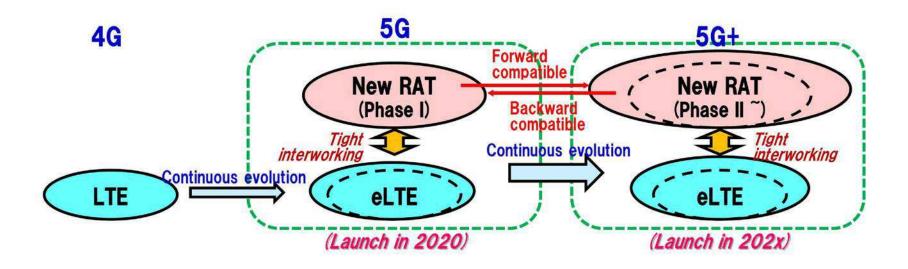


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### 5G Forward/Backward Compatibility

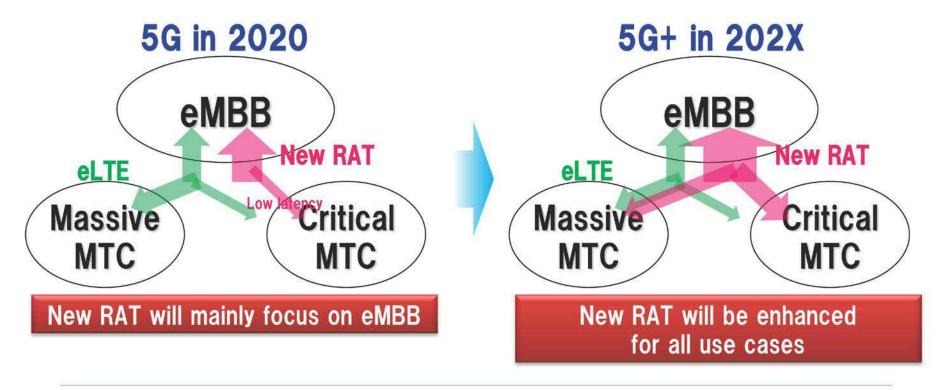
- It is important to make sure 5G continuous evolutions and 5G forward/backward compatibility considering:
  - Unclear spectrum allocation plan especially for mmW
  - Difference in 5G launch timing between countries/regions



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### 5G Use Cases

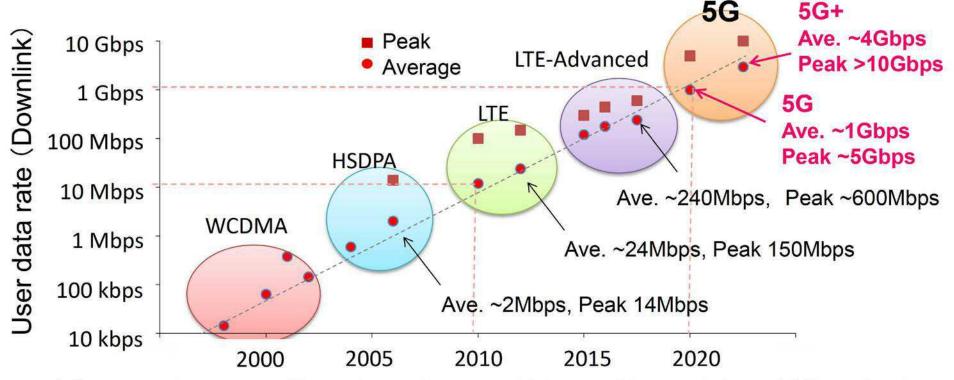
5G will support both use cases for enhanced Mobile Broadnand(eMBB) and Machine-Type Communications(MTC) together with LTE evolution



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# Data Rate Improvements Toward 2020 and Beyond

### Continuous improvement of user experienced throughput toward 5G/5G+

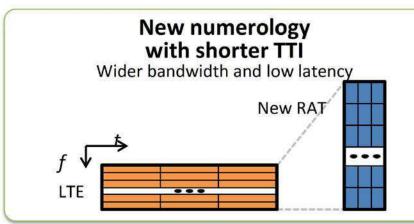


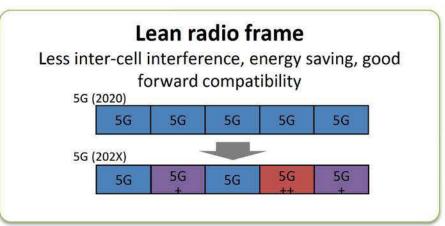
✓ Data rate increase will continue (approx. 100x per 10 years) (quasi-Moore law)

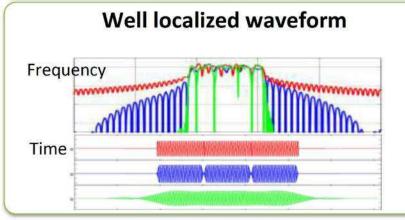
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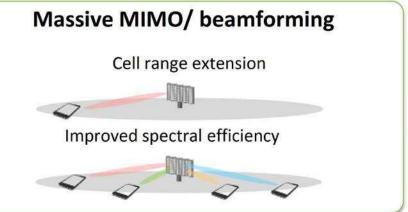
## 5G Key Technologies for 2020 Deployment

#### **New RAT**





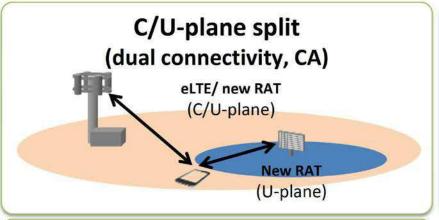


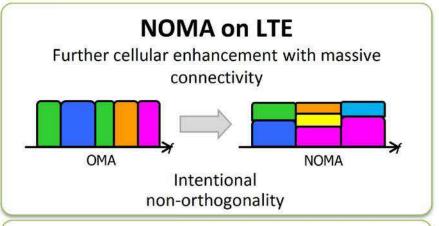


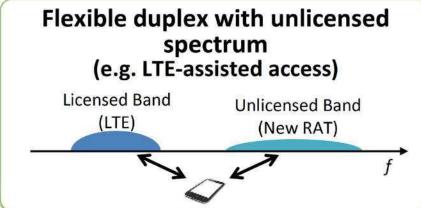
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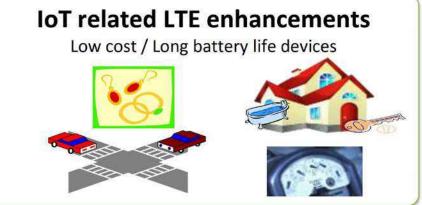
# 5G Key Technologies for 2020 Deployment

### **Tight LTE integration**





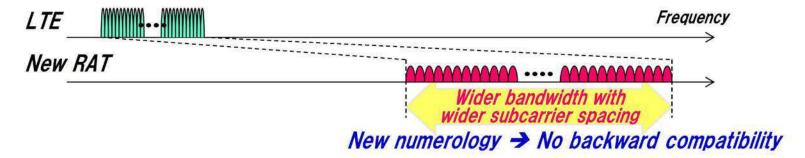




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### New numerology and lean radio frame

- New numerology (radio parameter set) to support higher frequency bands and lower latency
  - Desired <u>scalability from LTE numerology</u>
    - Low complexity implementation for LTE/new RAT dual-mode terminals
    - Easy support of dual connectivity between LTE and new RAT

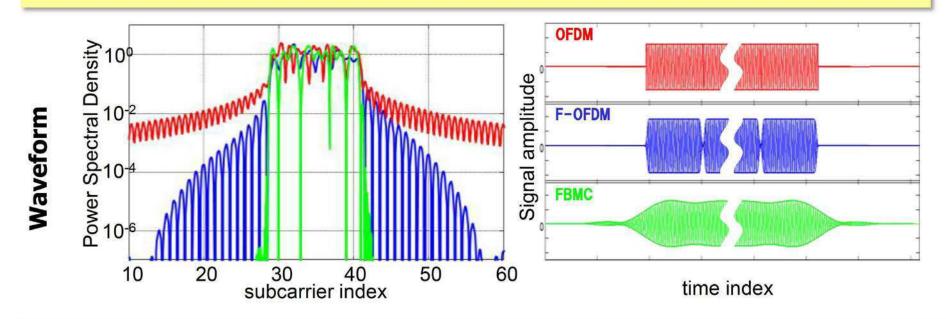


- Shorter TTI for low latency (< 1ms)</li>
- <u>Lean radio frame</u> with Good forward compatibility
  - Removal of "always-on" signals such as cell-specific reference signal

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### Waveform

- > Flexible waveform design to support both mobile broadband and IoT
- New waveform designs allow for a limited amount of in-band distortion in order to significantly reduce out-of-band leakage
- > Trade-off between time and frequency localization of filter response



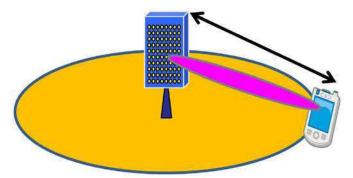
FBMC (Filter Bank Multi-Carrier) and Filtered-OFDM are studied as alternative waveforms of CP-OFDM

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### Massive MIMO

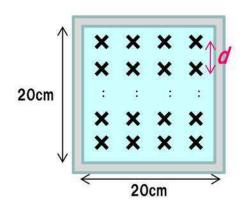
Compensation for path-loss

→ Range extension of small cells

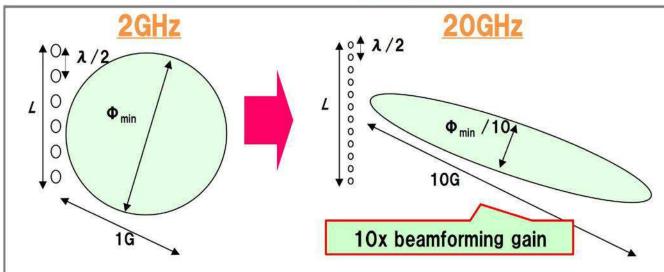


Large number of simultaneously connected users
→ Smooth connectivity even in crowded areas





More than 100 antenna elements per small cell

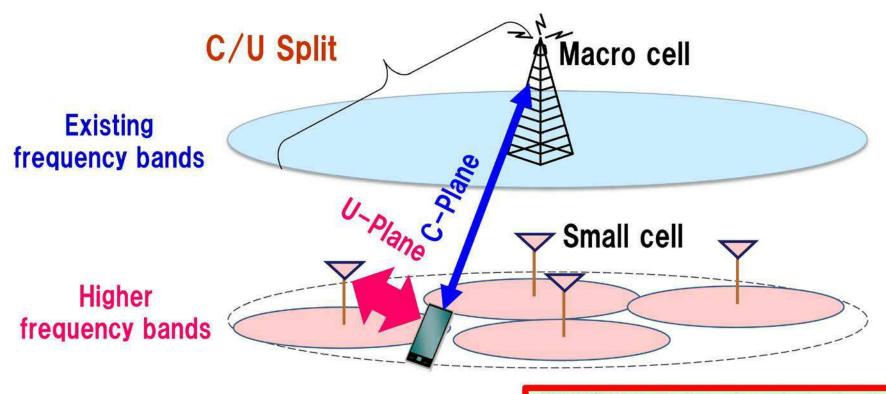


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# C/U-Plane Split (Phantom Cell)



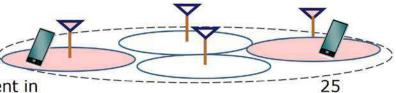
U-plane: Small cell provides higher data rate and more flexible & cost-energy efficient operations

Cell ON/OFF:Small cell are put on only when there is traffic

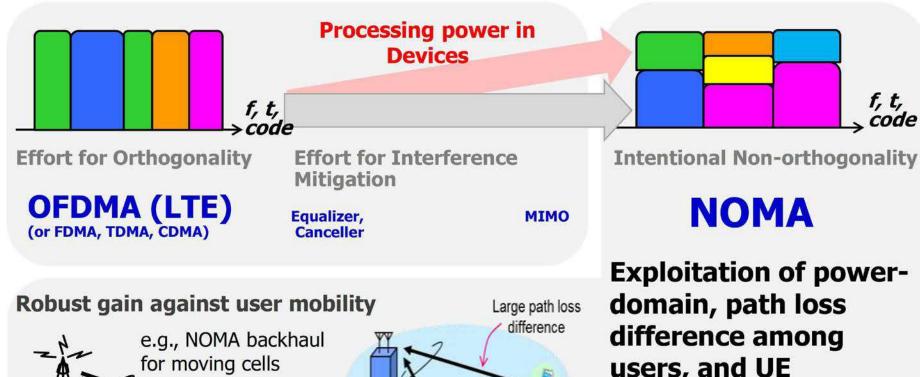
C-plane: Macro cell maintains good connectivity

and mobility Takeniro Nakamura NTT DOCOMO

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### NOMA



w/ SIC

SIC of UE2

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w/o SIC

**NOMA** 

**Exploitation of power**domain, path loss difference among users, and UE processing power

**Under study in LTE Release 13** 

### Radio Technology Components for Phase 1 and Phase 2

Technology components	Phase I of new RAT	Phase II of new RAT
Target spectrum	Up to 30 (or 40) GHz	Up to 100 GHz
Target deployments	eMBB (Hotspot, UMi, UMa) Dense urban scenario	All scenarios
Waveform	OFDM-based	Single carrier (or alternative waveform)?
Numerology	Flexible numerology Minimized number of options for target spectrum and target deployments	Optimizations to higher frequency bands and all use cases
Radio frame design	Low latency (short TTI) Minimized overhead channels Flexible radio frame structure	Extension to support all use cases
Massive MIMO	Supported •Coverage extension and MU- MIMO gain	Possible extensions for higher order array, UE beamforming, etc.
Initial access	Prioritize LTE assisted access	Standalone to be supported

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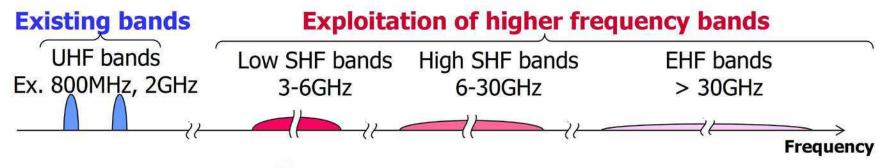
2020 and Beyond

# 5G EXPERIMENTAL TRIALS

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## 5G Experimental Trials

5G experimental trials are being started since Q4 of 2014













### **Key devices/Chip** sets vendors

System solution vendors

Measuring instruments vendors









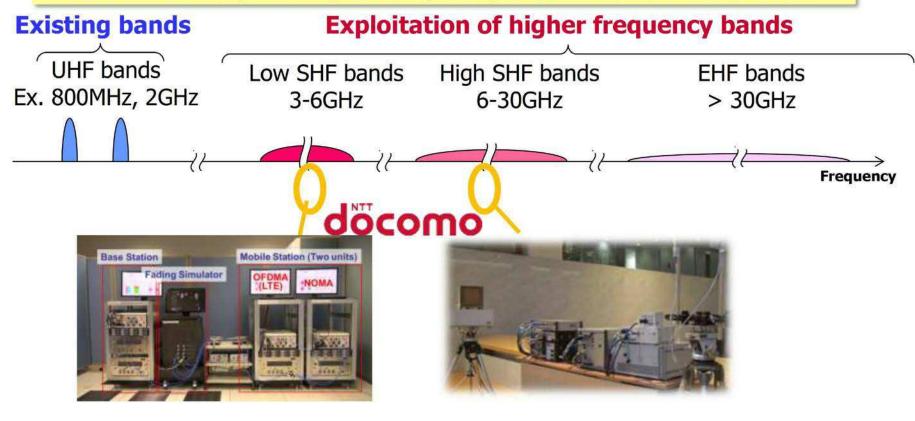


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# 5G Experimental Trials

Experimental trials on DOCOMO proposed NOMA and channel sounder to explore higher frequency bands are also conducted



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### Conclusion

- Diverse requirements to be considered for 5G (including MBB and IoT)
- 5G will be about an innovative combination of several technical components
- Now 5G is about to enter standardization phase (3GPP and ITU-R)
- Phased approach is important to introduce 5G technologies considering market needs and realistic spectrum allocation time plan



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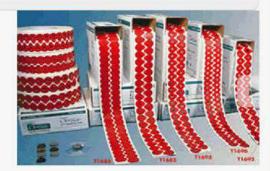
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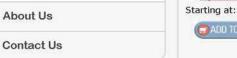




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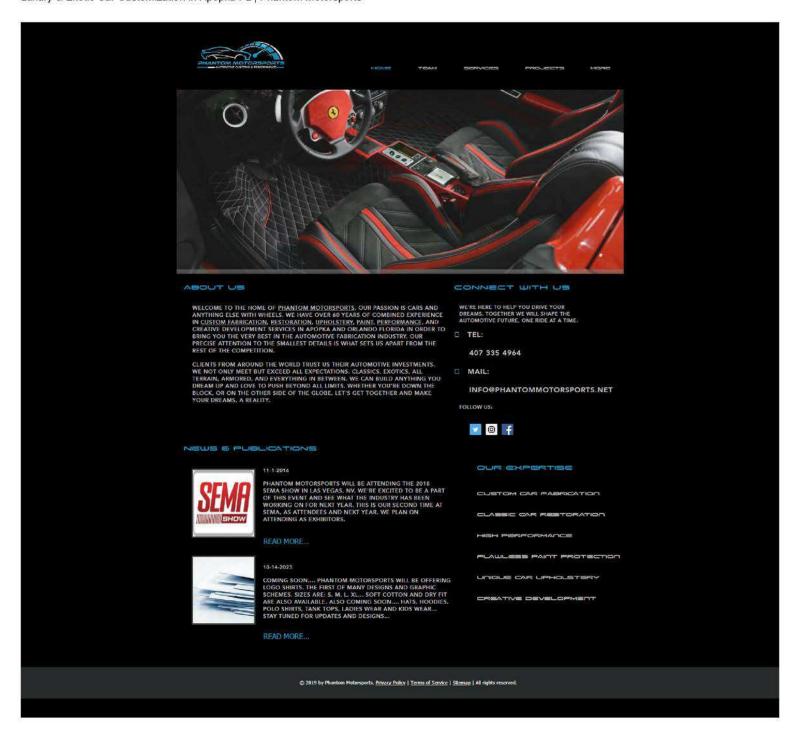


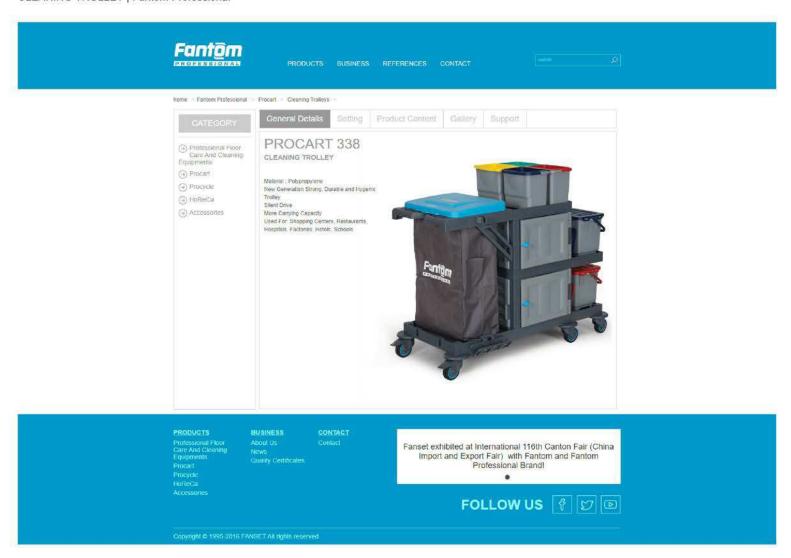




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#### Phantom Dome: Advanced Drone Detection & Jamming

#### GENERAL DESCRIPTION



#### 1. The emanating threat of drones

In recent years the threat of drones has become increasingly vivid to many security agencies. Drones, nowadays, are used by terrorist and criminals for a multitude and variety of activities such as dropping small bombs on enemy forces in Syria and Iraq, and the same drones are often used for reconnaissance and surveillance.

Notwithstanding, drones which are used by private individuals are creating a serious threat for civilian aviation while at the same time, criminals are using drones to smuggle drugs and cellular devices into prisons.

#### 2. The solution - drone detection and drone jammer system

The solution includes 4 different systems working in harmony:

- · Drone detection system by Radar (Air surveillance).
- Drone detection by optical (EO/IR) camera.
- · Drone counter measure Jamming.
- RF drone detection system.

#### 3. Detection by Air Surveillance Radar

The air surveillance radar is equipped with a light weight air defense radar system (fixed installation). It is C-Band 3D Pulse-Doppler radar, characterized by an azimuth mechanical scan (rotating), and elevation electrical scan (also known as linear phased-array). The radar operational uniqueness is in its ability to provide range, azimuth, elevation and velocity measurements for up to 200 targets simultaneously.

The radar utilizes an advanced, innovative waveform with up to date signal processing techniques for high resolution and high possibility of target detection, coupled with low radiated power. The radar's cutting edge technology 3D tracking and the usage of C-Band frequency provides an optimal solution for efficient detection of miniature UAVs characterized by the following: small signature, low speed and low altitude.

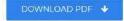


#### 4. EO/IR SYSTEM

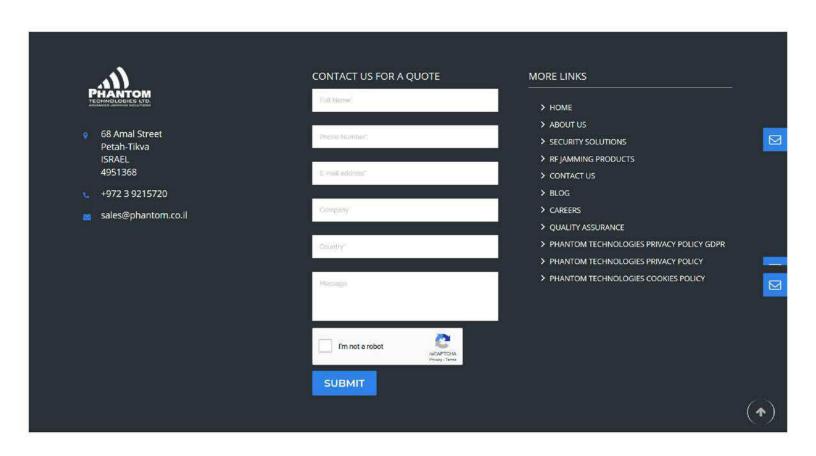
The EO/IR system is equipped with highly sophisticated electro-mechanically modular electro-optical system, which enables day and night observation for detection, recognition and identification of targets. The electro-optical sensors are a night camera and a daytime TV camera bore sighted to each other.

#### System features:

- · Continuous zoom
- Auto focus
- Manual/auto gain control (including local AGC)
- NUC selection
- NUC calibration
- Optical tracking



#### MORE SECURITY SOLUTIONS



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#### FH-1 Phantom - National Naval Aviation Museum

https://www.navalaviationmuseum.org > aircraft > fh-1-phantom -

The first FH-1 Phantoms joined the fleet in 1947, with Marine Fighting Squadron (VMF) 122 flying them as part of an unofficial demonstration team called the ...

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#### VMFA-333 - Wikipedia

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F-4 Phantom II · F/A-18 Homet. Marine Fighter Attack Squadron 333 (VMFA-333) was a United States Marine Corps fighter ... In April 1944, a portion of the squadron was sent to NAS Key West. Florida for anti-submarine training and upon their ...

Fighter: F4U Corsair; F6F Helicat; FJ Fury; F-8 ... Tail Code: WN, later DN Attack: AD-1 Skyraider Bomber: SBD Dauntless

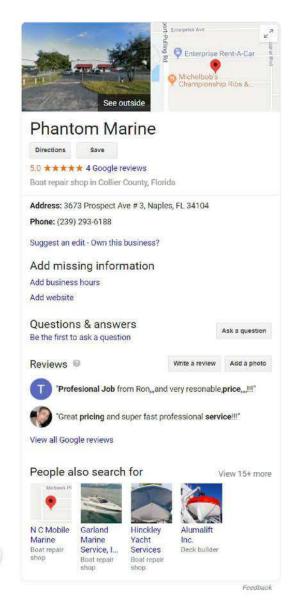
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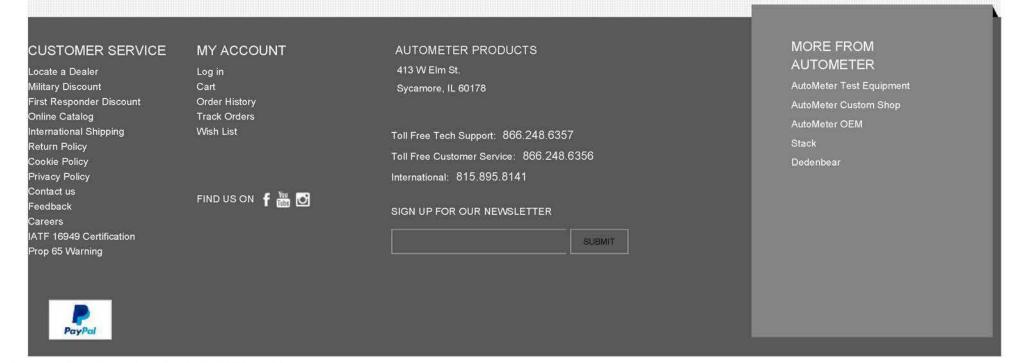
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Home > Rolls-Royce > Phantom > News > Official

#### 2018 Rolls-Royce Phantom: 'Opulent' Doesn't Do It Justice











- Get Familiar With The 2018 Rolls-Royce Phantom In 5 Videos
- o 2018 Rolls-Royce Phantom: See The Changes Side-By-Side



Standing in an undisclosed location somewhere in Los Angeles, I'm surrounded by elements of the new Phantom. Veneers and leathers of the richest hues. Porcelain and gold-plated elements that can be hand-crafted to an owner's specification. It's overwhelmingly opulent to a Vanswearing, Honda CRX-driving guy like me. But to Phantom owners, it's what's expected. "The best" isn't good enough. It has to deliver on that and offer so much more.

That starts with a firm design statement, one that's powerful and purposeful. Never mind what you saw in those horribly warped brochure scans recently – in the metal, the new Phantom is both elegant and dominant. Whether in two-tone or solid color, this car has presence, with



7

10 10

massive wheels, flowing lines, and a rump that elegantly tapers off toward the center.





The eighth-generation Phantom is completely new, riding on an all-aluminum structure that Rolls-Royce calls "Architecture of Luxury." This chassis will soon underpin every one of the company's future models – even the SUV – further enhancing the "magic carpet ride" driving dynamic of every Rolls-Royce. Of course, just because it uses aluminum bones, don't think the Phantom is suddenly a super svelte sedan. In extended wheelbase form, this thing is still nearly 20 feet long, 6.5 feet wide, and weighs almost 6,000 pounds.

A Phantom staple, the iconic 6.75-liter V12 remains underhood. But it's heavily updated, with a pair of turbochargers that help it produce 563 horsepower and 664 pound-feet of torque. That's enough to make this behemoth scoot to 62 miles per hour in 5.3 seconds (5.4 in the long-wheelbase version), which is damn quick, should sir wish to participate in such antics.

Of course, with a car like Phantom, it's not the driving dynamics that matter, so much as the overall serenity of the ride itself. A double-wishbone front axle and five-link rear suspension do the heavy lifting, aided by a self-leveling air suspension with camera technology that can pre-adjust the levels of stiffness based on what's ahead. Plus, to help maneuver the big Phantom, Rolls-Royce incorporates four-wheel steering into the chassis.

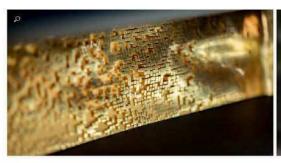




The end goal, Rolls-Royce executives tell me, is to have the customer completely cut off from the outside world – no annoyance, no harshness should filter into the cabin. That's further evidenced by two-layer glazing around the glasshouse, and a full 286 pounds of sound insulation. Rolls-Royce says the 2018 Phantom is 10 percent quieter than the previous model at 100 kilometers per hour (62 mph).

And then there's "The Embrace." This is how Rolls-Royce describes the new self-closing rear doors, which can now be operated from the outside, as well as from inside the cabin. Let the company's own luxurious text speak for itself: "As the patron settles in to the car, an assistant or valet steps forward and lightly touches the sensor on the door handle so it whispers closed of its own accord, enveloping the occupant in The Embrace"."

From the moment my butt hits the seat, I'm relaxed, surrounded by the finest materials, the most precise stitching, and every single detail accounted for. There isn't a single visually unappealing or bad-to-touch place inside the cabin, with tons of room and every amenity you'd ever want.





A truly special part of the experience is "The Gallery," set behind a single piece of glass that spans the full width of the dashboard. In front of the driver, you'll find a small screen with the typical instrument panel controls, in the middle, a retractable, 12.3-inch infotainment screen. But the rest of the design, well, that's up to you. Customers can choose from things as simple as wood veneers, elegant fabrics, or even silk. But for those who really want to go wild, the possibilities are nearly endless. Rolls-Royce itself suggests bespoke oil paintings; a gold-plated, 3D-printed map of the owner's DNA (I'm serious); or perhaps a handmade display of roses – roses whose genetics are the property of Rolls-Royce – done up in Nymphenberg porcelain. You have to see it to believe it.

But indeed, this is the Phantom, and what seems like unnecessary displays of wealth to folks like me is total normalcy for the intended customer. Remember, these are the people who will be chauffeured in their Phantom from their house, to the airport, onto their private plane, and to their other house, which probably has a yacht in its private harbor. For these folks, the new Phantom must offer everything they could want and more. And from what I can tell, it does.







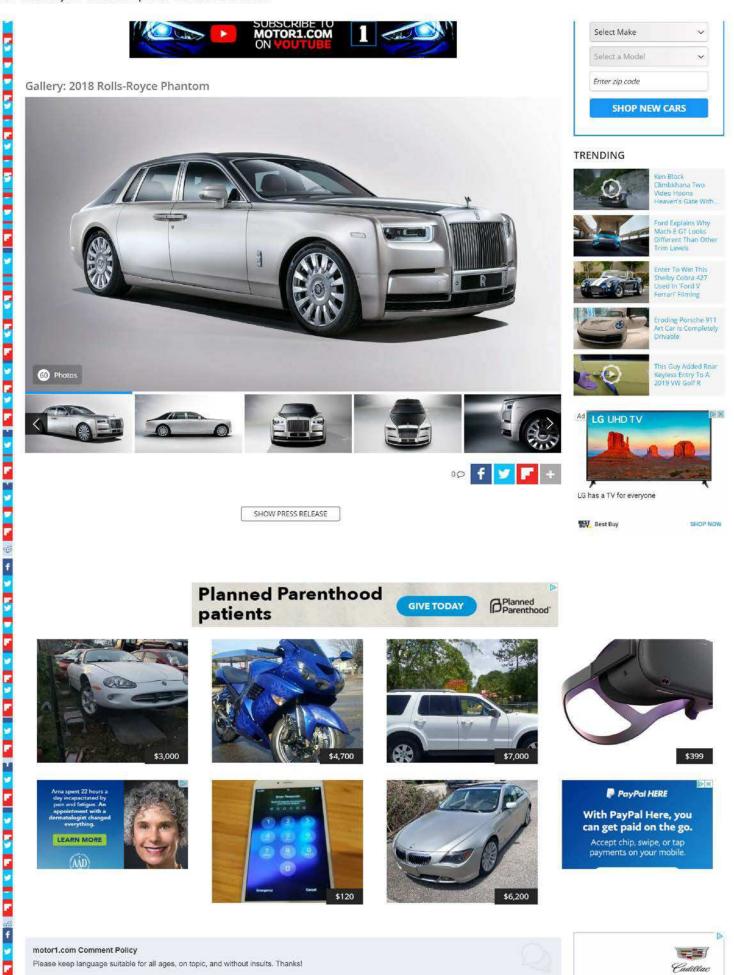
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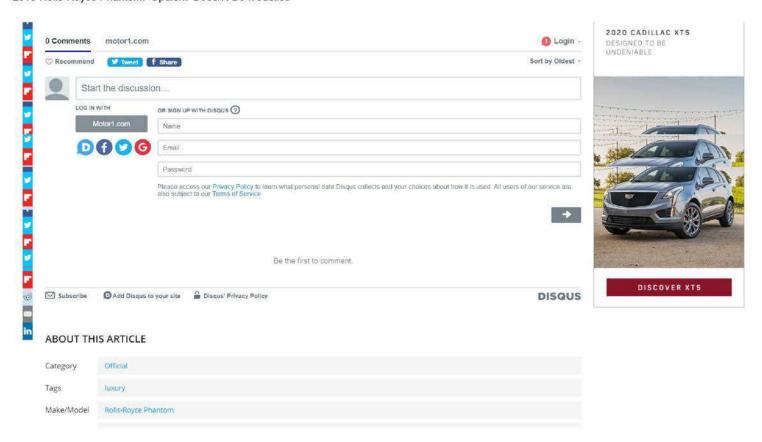
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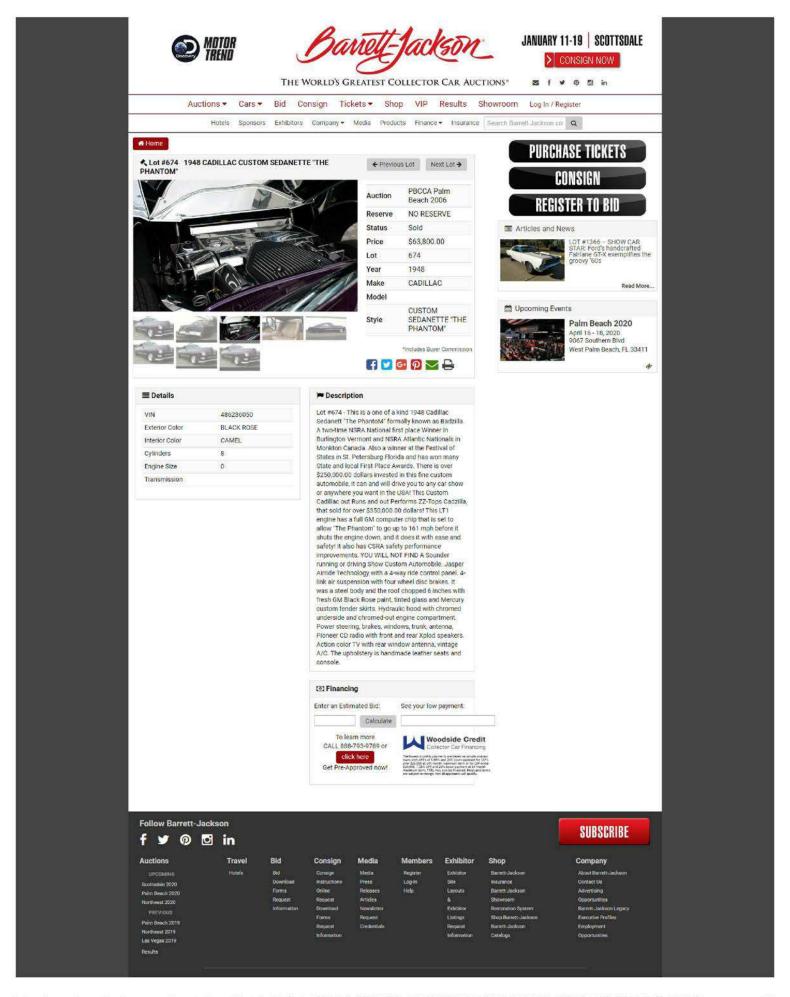
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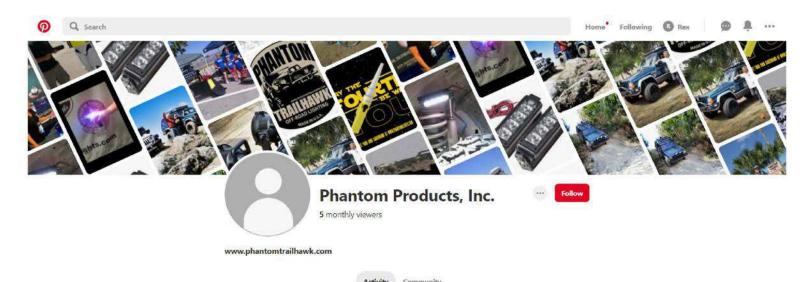


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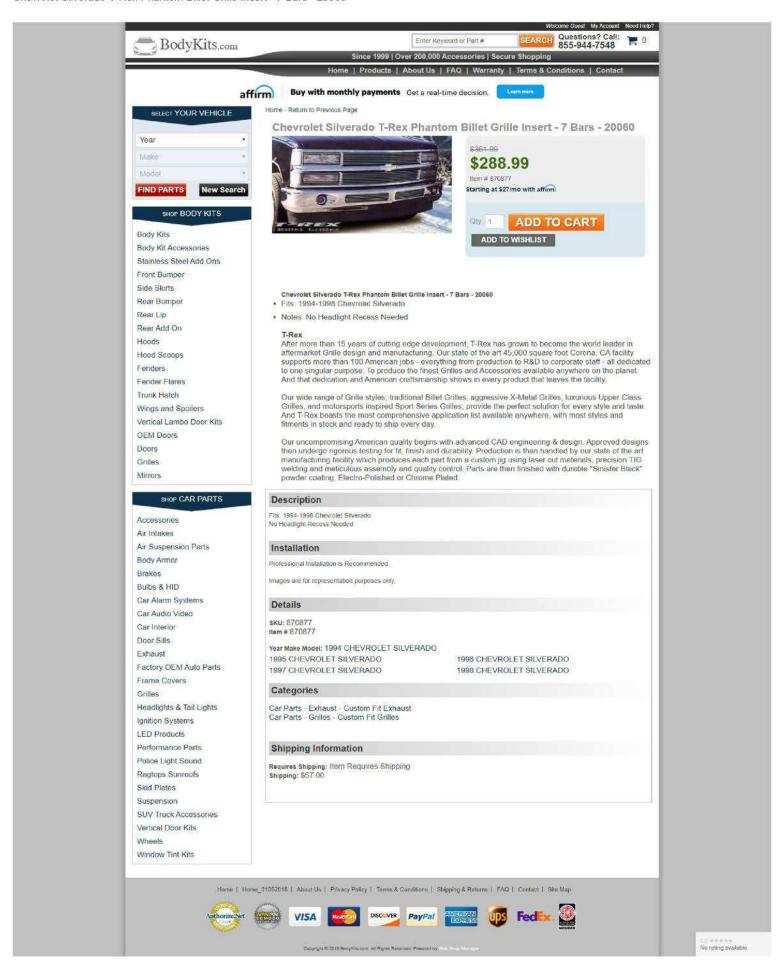


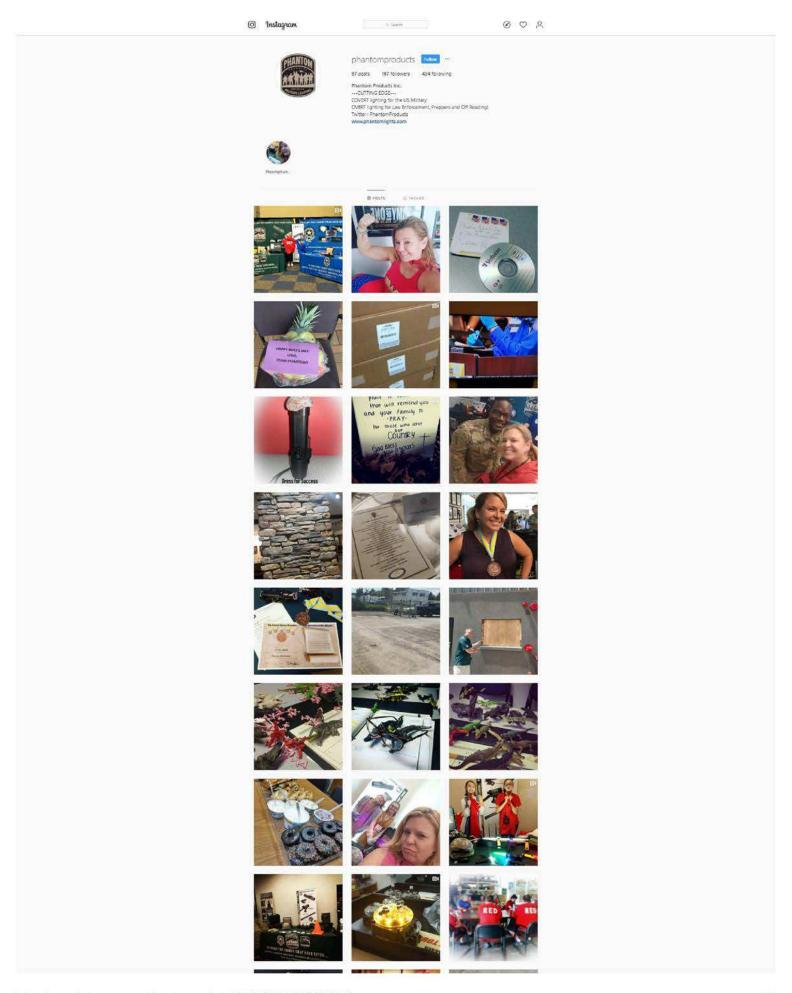




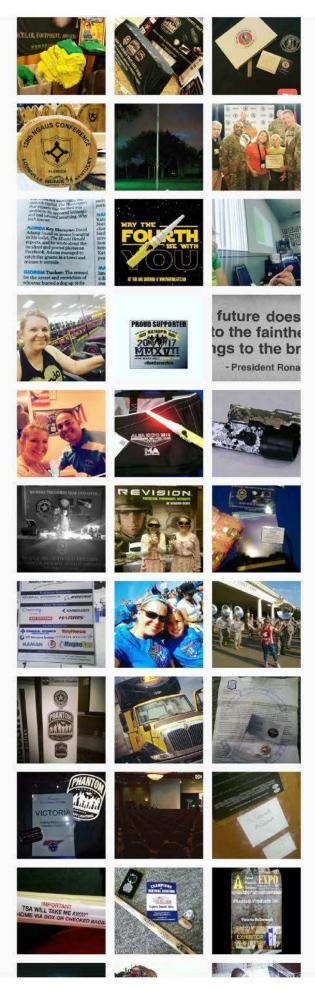


















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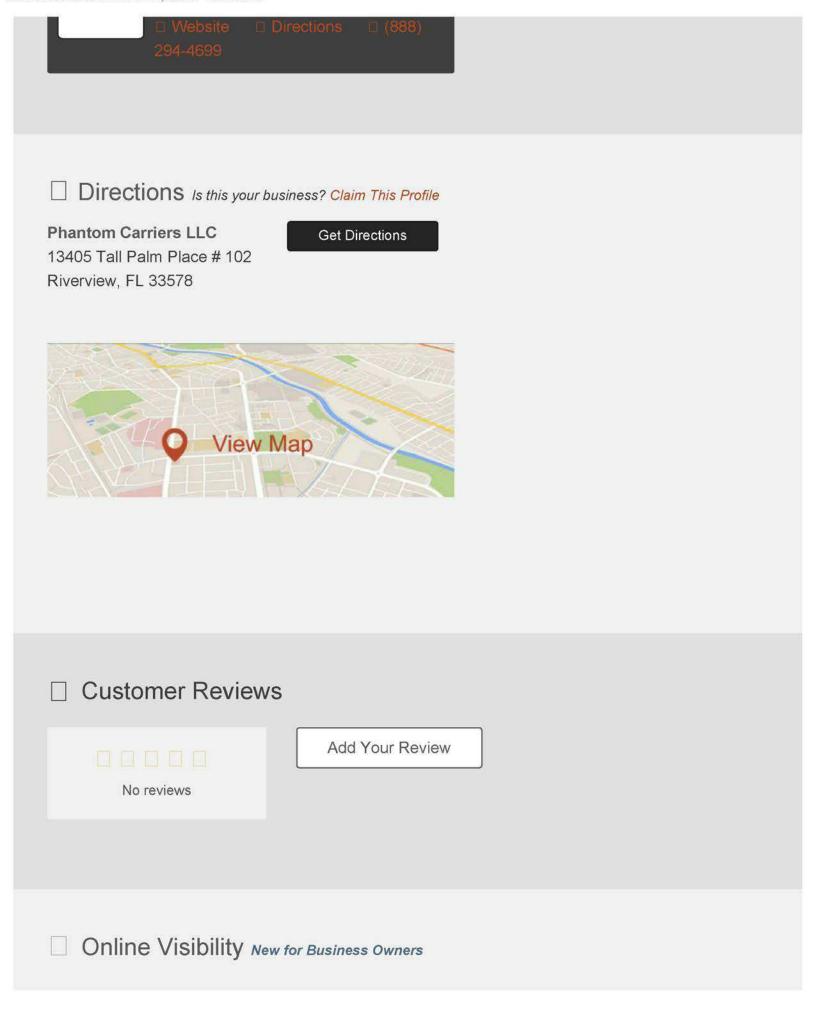
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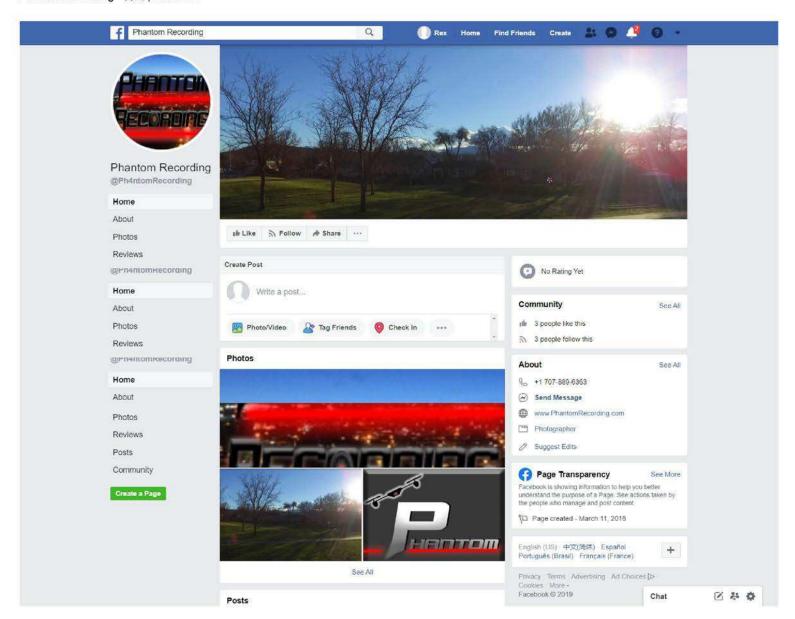
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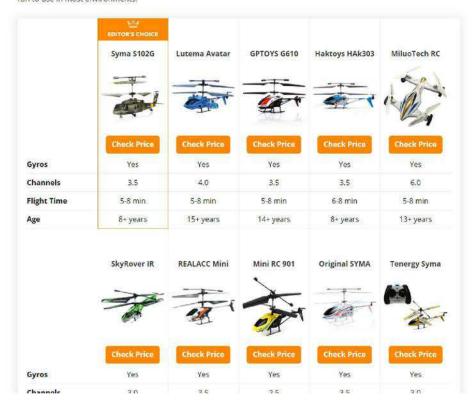
Toys & Games

# 10 Best Remote Control Helicopters in 2019



emote controlled helicopters are not toys that have revolutionized how people play. Their high-powered systems keep both kids and adults engaged outdoors. Their style and versatility also make them ideal playing toys for people of all ages. You need a quality product, though. Considering the amount of abuse they endure in the hands of people, low-grade brands often crumble under stress.

The best pedal cars are perfect toys for kids. They are cheap. They also keep kids active, which is beneficial to health. However, if you are shopping a birthday toy that will have the best effect, consider buying an RC helicopter. The 10 brands that we have reviewed are durable. Physical and environmental abuse does not slow them down in any way. They are also fun to use in most environments.



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Flight Time	5-8 min	7-9 min	7-8 min	5-6 min	8-12 min
Age	8+ years	8+ years	13+ years	14+ years	14+ years

# 1. Syma S102G Helicopter

Are you searching for a high-quality RC helicopter that you will enjoy using for long? Syma \$102G is a good product to consider. Made using durable materials, it withstands a great deal of abuse. When learning to fly it, you might crush it once or twice without compromising its structure. Its overhead blade, for instance, does not snap as easily as some cheap brands often do. Its wheels and radar also work as desired for months. You will love this



You will not struggle to use this RC helicopter. Because of its stable flight characteristics, people of all skill levels can use it effortlessly outdoors. Maneuvering it, for instance, is a breeze. You do not need a lot of experience or time to figure out how its controls work. The 3.5 channel gyro that it has boosts its performance further. It enables it to yaw and correct its path in flight, which eases control.

This is a battery-powered RC helicopter. The rechargeable battery that it uses is not only convenient but also powers it well for a few minutes. Its onboard LED lights, on the other hand, are ideal. If you are looking for an RC helicopter that you can use indoors or in dark areas, this is one of the best brands. These LED lights are bright and durable.

This mini RC helicopter has a light and portable design. If you travel often and carry your treasured toys along, add this one to your arsenal. It does not clutter personal space. This makes it perfect for traveling.

#### OUR VERDICT

Buy Syma S102G to get a versatile battery-powered RC helicopter that is perfect for beginners. Because of its stable flight characteristics, it is easy to fly. It also has a durable design with bright LED lights that boost its functionality indoors. This is a high-quality product.

#### O PROS

Super easy to fly

Ideal for beginners

LED lights for indoor use

Advanced Gyro (3.5 channel)

Stable flight characteristics

Internal rechargeable battery

## O CONS

Remote batteries not included

# 2. Lutema Avatar Hovercraft

This is a stable remote control helicopter. Moreover, because of its ease of use, it is suitable for both professionals and beginners. If you have dreamt of owning a new RC helicopter for long, do not hesitate to buy this one. You will enjoy using one on a day-to-day basis. The quality of the parts used to make it is also admirable. A new one will serve you well for long devoid of your skill level.



This helicopter comes pre-assembled. Instead of buying one of the complex brands that frustrate people often, look for this product. Once you have

installed and charged its battery, you can fly it around your lawn without issues. Furthermore, its low maintenance design is easy to service. You do not have to spend a lot of money on replacement parts often to keep it flying seamlessly.

When dropped of crushes, some brands of RC helicopters crumble to pieces. This is not the case with Luterna Avatar. Made of shatterproof plastic, its strength is admirable. You can crush it a few times without issues. Its blades and the gyro it comes with are also one of a kind. They can withstand abuse well for a long time. Buy yours. Because of its compact design, you can travel with it easily.

## OUR VERDICT

Because of its quality, Luterna Avatar Hovercraft has improved how people play outdoors. It has a stable fight in most directions. You can even steer it side to size without issues. Made of shatterproof plastic, you also get a sturdy RC hovercraft that lasts for long.

## O PROS

CONS

Stable helicopter

Missing parts

Compact/portable

Versatile hover motors

Stabilizing gyros

# 3. **GPTOYS G610**

If you or whoever you are buying an RC helicopter for has not flown one before, buy this GPTOYS G610 model. Its feature-rich design benefits beginners in many ways. First, the quality of its construction is admirable. Whilst in use, it can withstand many crashes without falling apart. This makes it an ideal RC helicopter for practicing. Second, it is super easy to control. Its simple buttons are easy to use. You will not struggle to maneuver it outdoors.



This RC helicopter has stable flight characteristics. If the performance of your existing one frustrates you often, you will like this one. Its well-engineered

controls are very easy to use. The latest gyroscope technology that it uses is also one of a kind. It stabilizes it well in flight. Even in windy weather, expect an enjoyable time with one.

The quality of the battery that this RC helicopter uses makes it an ideal day-to-day playing toy. In just 30-50 minutes, you can charge it to capacity. It also has a durable and high-capacity design that powers it outdoor for several minutes. Finally, you will like its onboard LED lights. Their multi-colored designs are good looking. They also light up dark spaces well, which eases control of this RC helicopter.

GPTOYS G610 has three selectable frequencies. Depending on the type of experience you are looking to have outdoors, you can customize its performance easily. Its 3.5 channels are also notable. They enable you to fly this helicopter forwards and backward with ease. You can also maneuver it up and down or hover it easily.

#### OUR VERDICT

RC helicopters stand out in many ways. If you are looking for a durable one that you can maneuver easily, buy GPTOYS G610. It is a durable product. Its battery-powered design, on the other hand, is easy to maneuver in all orientations without exerting a lot of effort.

#### O PROS

#### O CONS

Stable flight characteristics

Multi-colored LED lights

Three selectable frequencies

Responsive Gyro Stabilizer

Comes pre-assembled

Very light (veers in wind)

# 4. Haktoys HAk303 Mini

Haktoys HAk303 is a mini 3.5 Channel RC helicopter with a quality gyroscope. This is a great helicopter. If you are planning to buy one, do not hesitate. Its durability is amazing. You can fly it most environmental conditions without worrying about it breaking apart. If you are conscious about your spending, this is notable. For a few dollars, you get a quality product that will serve you well for long.



Apart from its longevity, most people like this helicopter's ease of use. You will not struggle to fly it for many reasons. First, it has a stable and high-

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performance design. Its stable gyroscope prevents it from tipping over whilst in use. It guarantees a stable and enjoyable flight, even in windy weather. Its convenient controls ease its use further. After a few failed tries, you will be able to fly it forwards and backward without issues. Look for an original for best results. These are among many reasons why people consider it the best for beginners.

You will like the quality of the batteries that this RC helicopter uses. They take 30 minutes to charge fully. This is desirable. They also have a long flight time. Fully charged, they power this RC helicopter well for six to eight minutes. You will enjoy flying it with friends or your kids, Finally, this RC helicopter has an admirable flight range. You can fly it to distances of up to 50 feet without losing control. For an RC helicopter, this is admirable.

Haktoys HAk303 Mini works well outdoors. However, whenever the weather is not conducive, you can also use it indoors without issues. The infrared flight control that it has works well indoors.

## OUR VERDICT

Haktoys HAk303 Mini is a perfect indoor and outdoor RC helicopter for people aged 8+ years old. Made of shatterproof plastic, it is a durable helicopter. Its range (50 feet) and runtime (6-8 minutes) are also admirable, devoid of its compact design.

# O PROS

## O CON

Shatterproof case

Batteries are not included

Easy to maneuver

Stable RC helicopter

Long flight time (6-8 mins)

Good flight range (50 feet)

Infrared control for indoor flight

# 5. MiluoTech RC Helicopter

During its production, MiluoTech has paid keen attention to the design of this RC helicopter. If you are looking for a durable model for day-to-day use, therefore, this is one of the best brands. Made of quality plastic, it has a light yet durable design. If you are a beginner, therefore, you can use it outdoors without worries. You can land it roughly one or two times without compromising its structure.



Out of the box, you will like this helicopter's ease-of-use. Unlike some brands that require special skills to use, for instance, this one is different, After a few minutes of practice, most people can maneuver it back and forth. It also comes pre-assembled. This way, you do not have to customize its parts for it to work seamlessly. Finally, its many operation modes (headless, rear, and flip) are ideal.

Like most products we have reviewed, this RC helicopter uses gyro stabilization. However, the advanced 4-axel gyroscope that it comes with works better than most standard brands. It is durable. It also responds well in most environments to offer people better control of this RC helicopter. Whilst in use, for instance, it senses changes in positions accurately. It the fixes such changes automatically to boost the stability of this helicopter.

#### OUR VERDICT

Even though MiluoTech lacks fine controls, its performance outdoors is amazing. It is fast, durable, and fitted with a 4-axel gyro that boosts its stability. The versatile control modes that it has, on the other hand, offer people better control of its performance.

PROS

CONS

4-axel gyroscope

Easy to control

Headless mode

Cruise control

Flip mode

Long flight times

# 6. SkyRover Phantom

Are you looking for a cheap yet great remote control helicopter? SkyRover Phantom is a good choice for many reasons. Its pocket-friendly design, for instance, is admirable. Whether you have deep or shallow pockets, you can afford one online. It is also fun to fly. Unlike some brands with complicated designs and controls, its simple design is easy to use. Most people (including kids) can handle it easily.



This is a good indoor and outdoor RC helicopter. If you have a small room with a low-lying ceiling, you will enjoy using it outdoors. When the outdoor weather is bad, on the other hand, you can use it indoors (if you have enough space) without issues. If your kid has outgrown the best magnetic toys you bought years ago, surprise him with this one. You can use it as well to rekindle your youth.

SkyRover Phantom, like most of the RC helicopters that we have reviewed, is a durable product. If you have wasted money on a few brands that have broken down fast, this one will serve you well. Made of quality plastic, it withstands a lot of abuse well. This makes it suitable for kids and beginners. They can crash it a few times without compromising its structure and or its performance.

The automatic Take-Off/Smart Hovering technology that this RC helicopter has stands out. Whilst in use, you can keep it at a fixed height for some time without it tipping over. The well-engineered steering controls that it has are also invaluable. They not only ease its use but also its performance further. If you have a home with a low ceiling, this is invaluable. You can use it indoors without issues.

# OUR VERDICT The charging time of this remote control helicopter is around 40 minutes. Considering that it has a run time of 20 minutes, this is impressive. You will enjoy flying this RC helicopter for long outdoors. OPROS CONS Fairly priced Helicopter Works outdoors and indoors Automatic Take-Off Smart Hovering mode Six-way control Gyro-balanced engine

# 7. REALACC Mini Helicopter

We never really outgrow the fun that comes with flying helicopters. It is always enjoyable to fly one no matter how old we get. REALACC Mini Helicopter offers these benefits and many more. Ranked among the best RC helicopters in 2019, its price is fair. If you are looking for a gift for your kid, you will afford one. The high-quality materials used to make it, on the other hand, are durable. You can crash it a few times or subject it to a lot of stress without issues.



This helicopter features a newly improved canopy design that withstands

crushes better than traditional ones. The shutter proof plastic used to make it, on the other hand, is tough yet light. As you play with it outdoors, you can reach high speeds in most areas. Buy yours. During your outdoor trips, you can travel with it effortlessly in a backpack.

Because of its ease of use, this RC helicopter is perfect for most beginners. If you like to fly, you do not have to practice for long to use this one correctly. Its controls are not only simple but also easy to use. Its versatile 3.5 channels boost its performance further. They enable you to maneuver it forwards and sideways with ease.

To prevent this mini helicopter from wobbling in flight, REALACC has fitted advanced gyro controls in its system. These are efficient. They also improve its stability and therefore performance outdoors. During calm or windy days, you can fly this helicopter without issues.

#### **OUR VERDICT**

Reputable all over the world, REALACC Mini Helicopter delivers memorable results outdoors. It is stable (gyro stabilized). The quality materials used to make it last for long. Finally, the simple controls it comes with are easy to use. They are suitable for beginners.

O PROS CONS

Compact construction No USB charger

Improved canopy design

Ideal for beginners

Comes ready to fly

Faster and more flexible

Great balance/stability

# 8. Mini RC 901 Helicopter

Remote helicopters help people to explore the sky without getting into a plane. They are also durable and come in a plethora of interesting designs that satisfy the needs of most people. To get a reputable one for day-to-day use, we have found a suitable product for you. Mini RC 901 Helicopter stands out in many ways. First, its longevity is admirable. The tough materials used to make its body and parts withstand physical and environmental abuse well.



If you are looking for a new RC helicopter, avoid the low-quality brands that disappoint people over time. This Mini RC 901 Helicopter is not only durable

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but also fun to use. Its mini sized design, for instance, is easy to control. Even kids can fly it well in most environments. Because of its space-efficient design, its storage and transportation are also easy. A new one will not let you down.

Do you enjoy flying in the dark? Have you lost a few of your favorite RC helicopters because of poor visibility? This product will serve you well. Each original one has onboard LED lights that improve their visibility in the dark. The risk of slamming yours on the wall or on a tree in your backyard is therefore relatively slim.

To start some types of RC planes, people have to run and eject them at high speed. This is frustrating for kids. Fortunately, with Mini RC 901, this is a non-issue. Starting it is a piece of cake. All you have to do is pull a cable on its body to fire up its motors. Whether you are a kid or a beginner, thus, expect good results.

## OUR VERDICT

Made of shatter-resistant plastic, Mini RC 901 is a durable remote control helicopter for kids and adults. It flies smoothly. The bright LED lights that it has boost its visibility. Finally, with a flying time of around 15 minutes, the performance of this RC helicopter outdoors is laudable.

O PROS CONS

Shatter resistant Mini-sized body

Colorful design

Bright LED light

Easy to maneuver

Good fly time (15 minutes)

# 9. Original SYMA S39 RC Helicopter

To keep their kids happy, parents have bought pedal cars and **the best** activity cubes for decades now. If you are one of them but want something special this time around, consider buying a remote-controlled helicopter. Original SYMA S39, for instance, is a versatile model that offers memorable results. Its simplicity is perfect for kids. You do not need a lot of skill to set up and or fly one, as is the case with some brands. It is a good day-to-day toy.



Controlling this RC helicopter is a piece of cake. Once you have set it up well and charged its system, you can use it on demand without issues.

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Maneuvering it up and down, for instance, is a piece of cake. You can also fly it forwards or backward or turn it left or right with ease. Your kid will enjoy using one every day.

This helicopter features bright LED lights. Unlike standard ones that run its walls or trees without warning, you can control it with ease at home. Because of their brightness, these LED lights boost the visibility of this RC helicopter. You can fly it indoors or at night without compromising its safety or performance in any way.

The manufacturers of this Original SYMA S39 RC helicopter have come up with a durable product. Its molded aluminum frame, for instance, is both light and tough. Every time this helicopter crashes, you do not have to worry about it disintegrating as easily as some cheap brands often do. Its body and components such as blades are also durable. They deliver good results in most environments.

#### **OUR VERDICT**

Even though susceptible to high winds, the performance of this RC helicopter outdoors is laudable. It is easy to maneuver in all directions. Its stability and convenient controls have also made it sought-after. Your kid will appreciate receiving one as a present.

O PROS

O CONS

Ideal for beginners

Susceptible to high winds

Easy to control

Features LED light

Works outdoor and indoors

Light and portable design

Spare Tail Blade

Free USB charger

# 10. Tenergy Syma S107/S107G R/C Helicopter

RC helicopters are amazing toys for both kids and adults. If you are looking for a technologically advanced one that you will enjoy using, consider Tenergy Syma S107/S107G. Featuring a novel 3CH Gyro RTF technology, its stability outdoors is admirable. Small gusts of winds do not blow it off course, as is the case with some brands. Off the box, it also comes pre-assembled and ready to fly.



This product has two selectable frequencies. If you have two RC helicopters that you like, you can fly them at the same time without issues. The three full

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channels that it has, on the other hand, ease its operation. You can fly it up, down, and left without issues. You can also fly it forwards and backward with good results.

Most RC helicopters are tough and fun to use. However, because of their poor battery life, they frustrate people outdoors whilst in use. This is not the case with Tenergy Syma \$107/\$107G R/C. Its onboard battery has a flying time of around 8-12 minutes. It also recharges faster than most comparable products. In just 20-30 minutes, you can have this helicopter charged and ready to use.

Tenergy Syma S107/S107G R/C is suitable for indoor flying. Because of its compact design, you do not have to worry about it knocking down your lamps or light fixtures. Its safe (CE, FCC, ASTM, and RoHS approved) design is also ideal. The risk of it bursting into flames whilst charging at home is relatively low.

# OUR VERDICT

This versatile all-in-one RC helicopter works like a charm. If you are looking for a durable brand that you can fly easily, this is one of the best. It is also safe and recommended for people of all ages.

O PROS

CONS

Safety-certified design

Few fragile parts

Flies for 8-12 minutes

Comes pre-assembled

Easy to maneuver

Safe for use Indoors

# Features to Look for When Buying an RC Helicopter

Durability: Always check the durability of your helicopter of choice before spending your money. What is the quality of the materials used to make it? Heavy-duty plastic and aluminum are ideal. They are light. They also withstand physical and environmental abuse well.

Ease of Use: Buying an RC helicopter that you cannot use is a poor decision. Furthermore, buying one with a steep learning curve is an equally poor decision. Look for a product that you will enjoy using.

\*\* Total Flying Time: Check the flying time of your preferred RC helicopter before reaching for your wallet. Brands with high capacity batteries are the best. They work well outdoors for long.

Conclusion: People have used toys such as pedal cars for decades now. To offer your child a new experience, buy one of our recommended RC helicopters instead. They are fun to use. Their innovative designs and quality of construction also make them ideal playing toys for both kids and adults.



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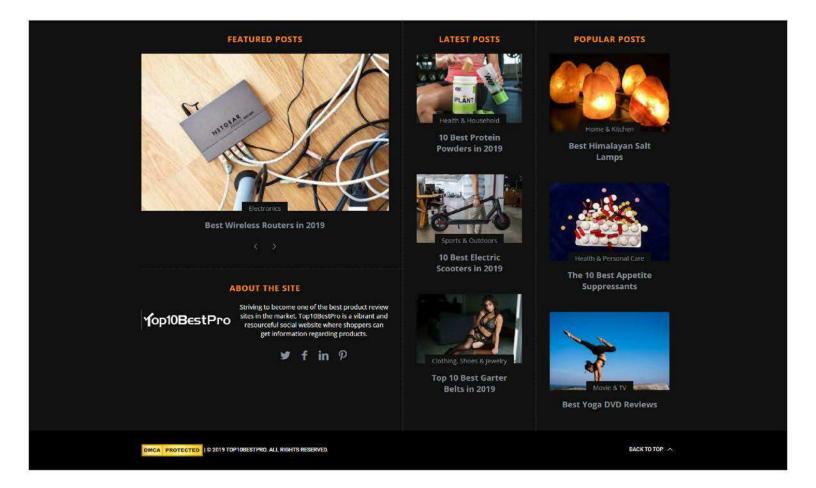


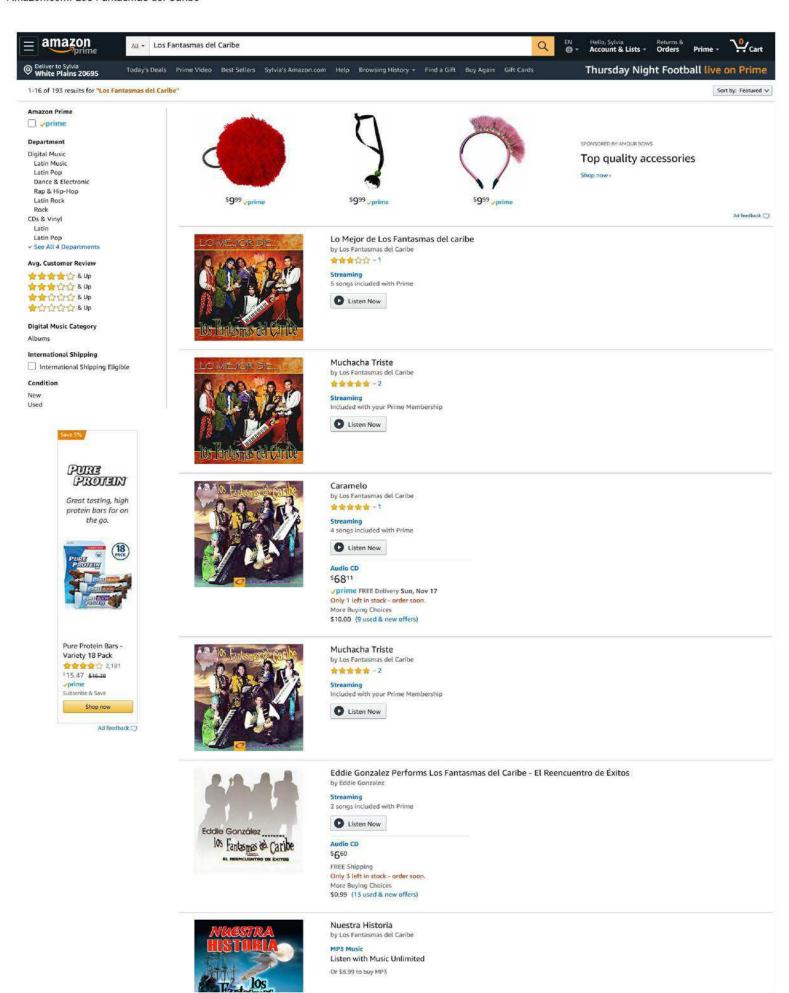


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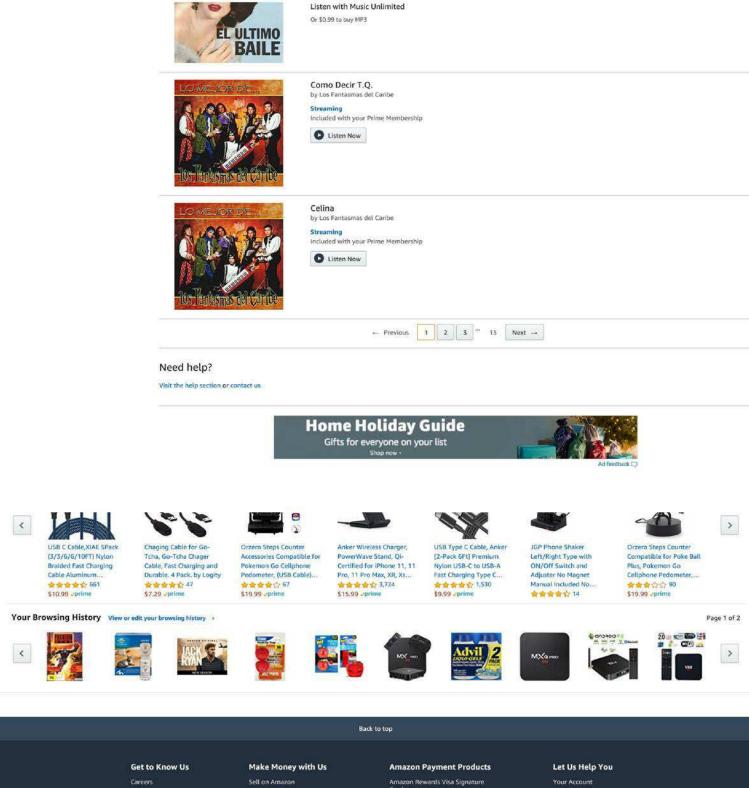
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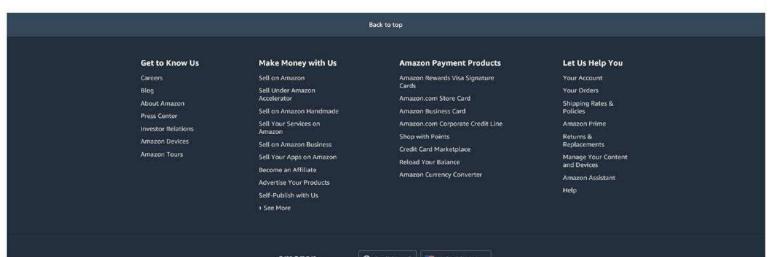


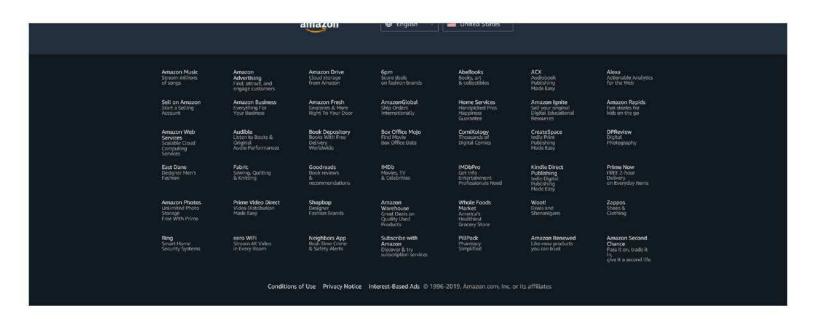
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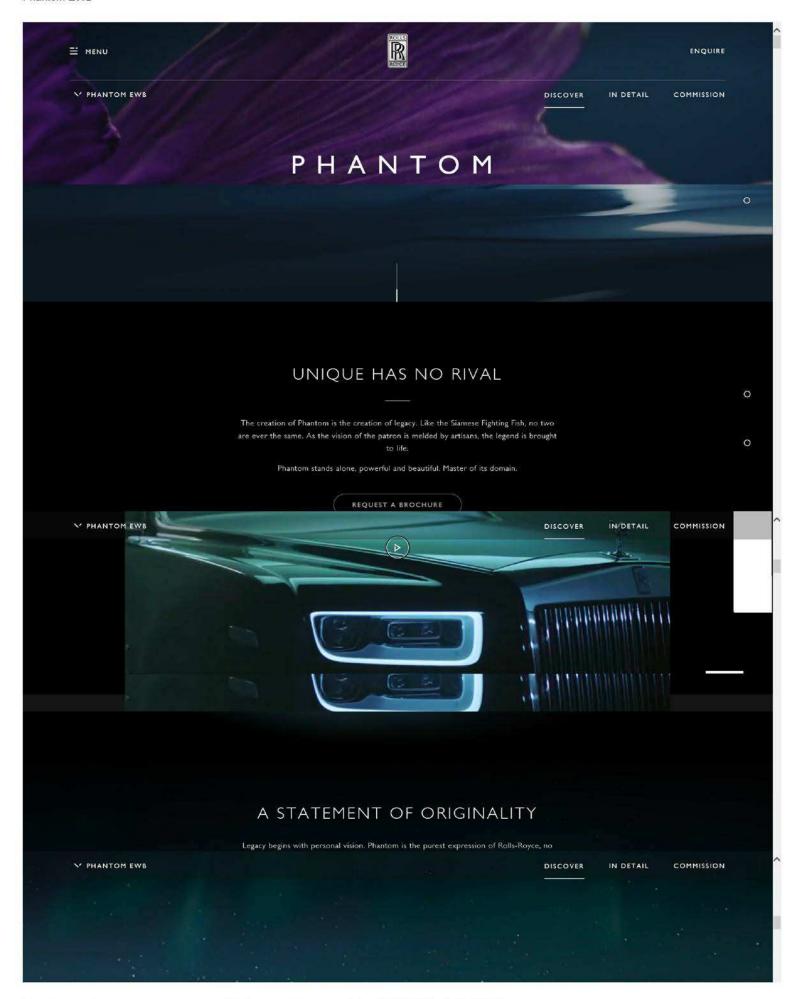
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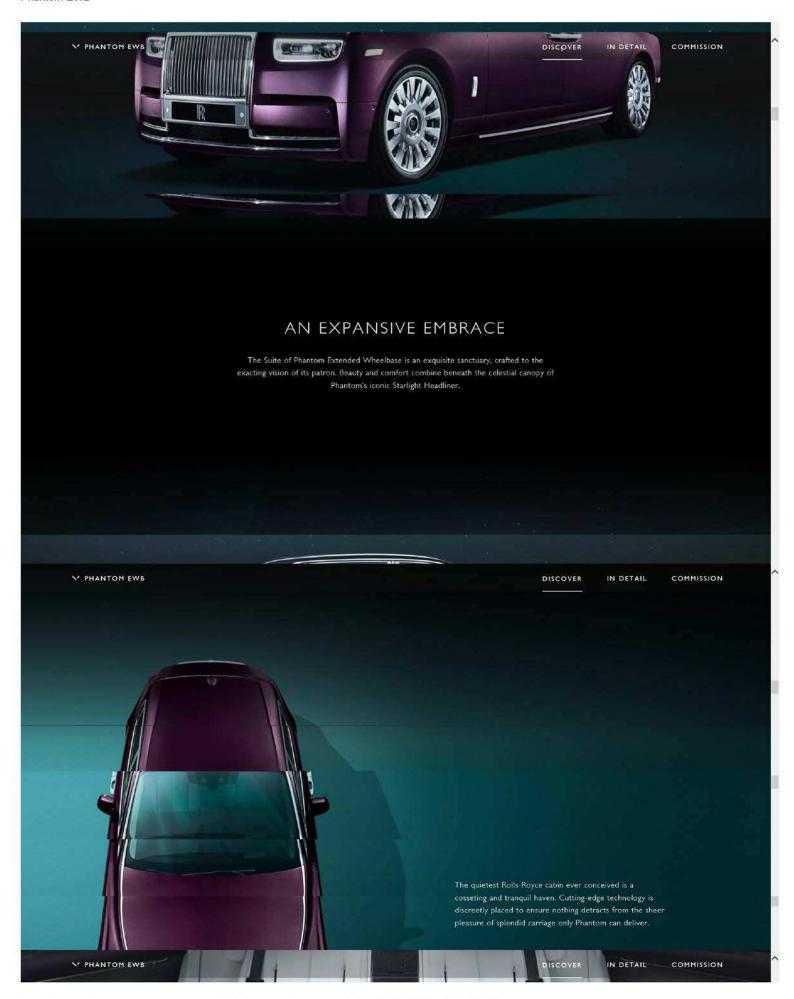
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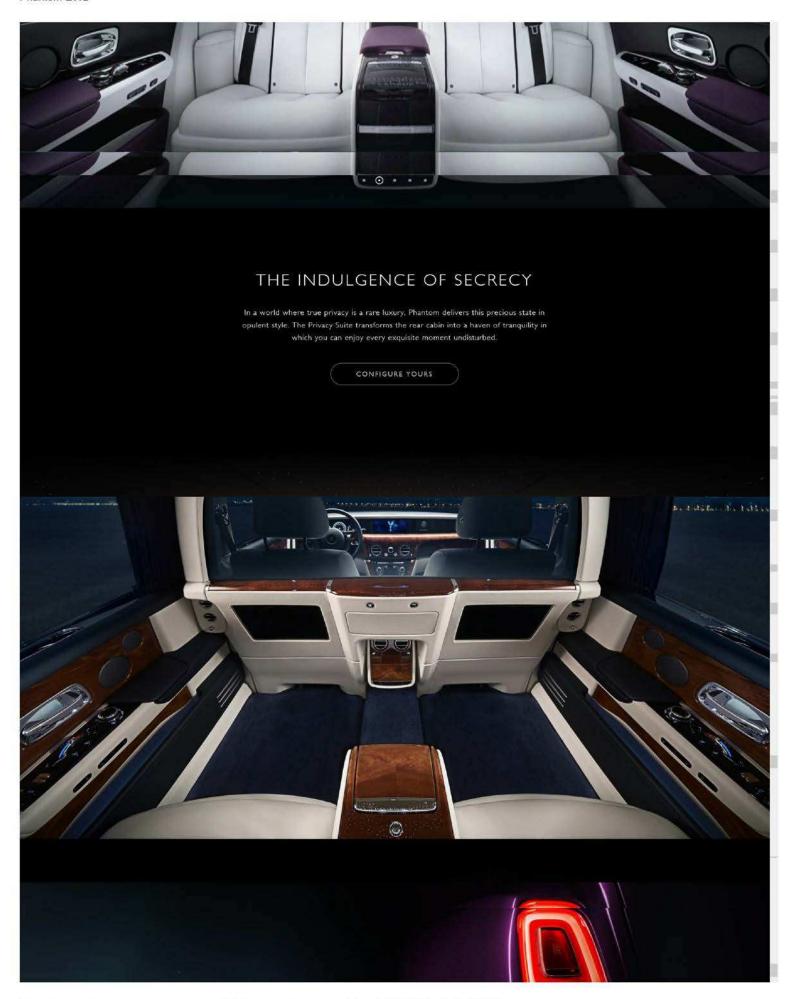




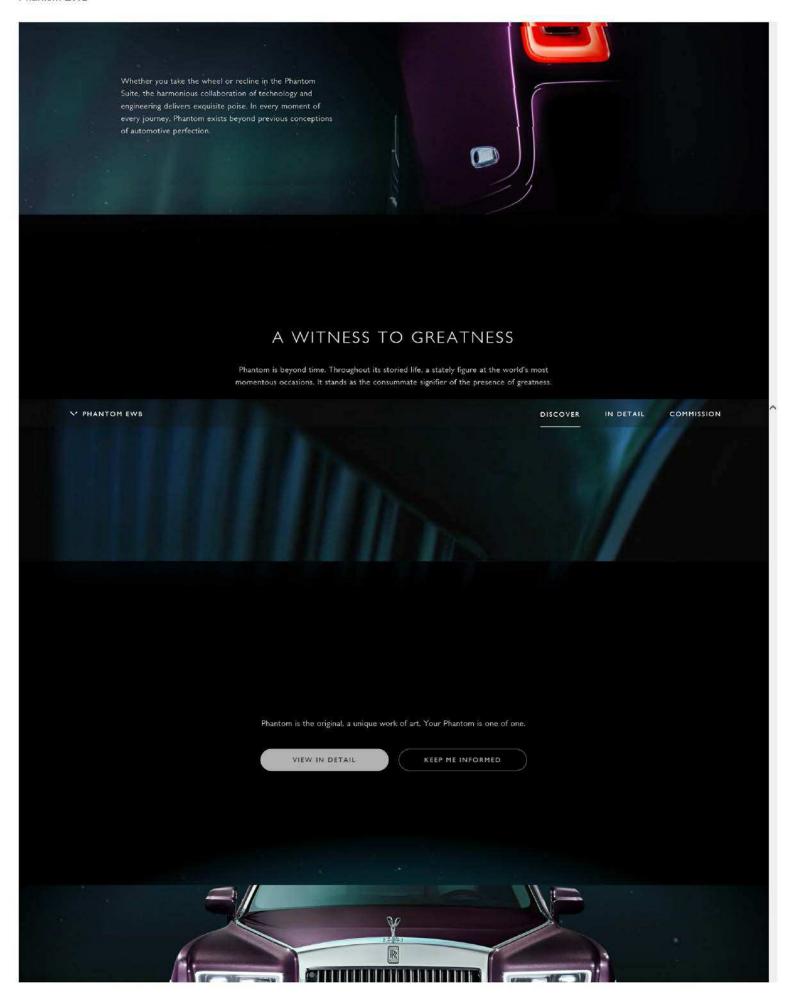




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# CONTINUE YOUR JOURNEY

Delve further into stories of Inspiring Greatness.



## PHANTOM EWB - IN DETAIL

Phantom Extended Wheelbase commands attention, An icon like no other: A motor car that stands alone. Superlative. Defying definition and convention.



## PHANTOM

An unapologetic rulebreaker. Disrupt the norms with Rolls-Royce Phantom.



# PHANTOM SUITE

Experience the luxury of absolute privacy. The Privacy Suite for Phantom Extended Wheelbase transforms the rear cabin into a secluded sanctuary for undisturbed enjoyment.

INSPIRING GREATNESS ->

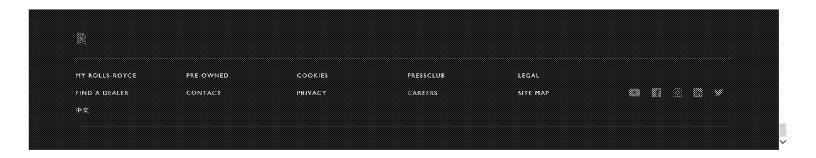
The fuel efficiency specifications are determined according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures shown consider optional equipment and the different size of wheels and tyres available on the selected model. Changes of the configuration can lead to changes of the values For vehicle related taxes or other duties based (at least inter alia) on CO2 emissions the CO2 values may differ to the values stated here. They do not relate to any one particular vehicle, nor are they part of any offer made, rather they are solely for the purpose of comparing different kinds of vehicle.

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# DEEP OCEAN ENGINEERING PHANTOM T-SERIES IN ACTION

#### Application

#### Pipeline inspections

One of Deep Ocean Engineering's Phantom® T4-H ROVs has successfully completed a series of pipeline inspections that Underwater Resources; inc. performed for their client, EBMUD. The T4-H ROV inspected sections of the Mokelumne Aqueduct Raw Water Pipeline. The system was outfitted with a pipe profiling sonar and three video cameras. The ROV traversed three, nearly thousand foot long, eight foot diameter, inverted siphon pipelines running under the San Joaquin river. These pipelines provide EBMUD with 90% of their water supply.

All photos courtesy of ROV pilot, Craig Bussel.





# Phantom® T-Series ROV

The standard Phantom<sup>®</sup> T5 includes high-performance magnetically-coupled brushless thrusters, a HD camera, 15,000 lumens of LED lighting, a control power console and a 300m copper umbilical. Options available include upgraded fiber-optic umbilicals, cameras, lights, sonars, manipulators, GPS, INS, DVL acoustic tracking and navigational software. Additional cameras and application specific tools and skids, such as our Disrupter, can be accommodated.

# Phantom® T-Series Thruster Configurations

T3: 2 horizontal, 1 vertical

T4: 2 horizontal, 1 lateral, 1 vertical

T5: 4 horizontal, 1 vertical

Tecnadyne\* magnetically-coupled brushless thrusters



# **Upcoming Trade Show**

## Underwater Intervention

The industry conference and exhibition for subsea technology and services

- Booth #702, immediately to the right from the eritrance
- February 5-7, 2019
- · Morial Convention Center New Orleans, LA
- We will be featuring the Phantom T5 ROV and Phantom I-1650 USV

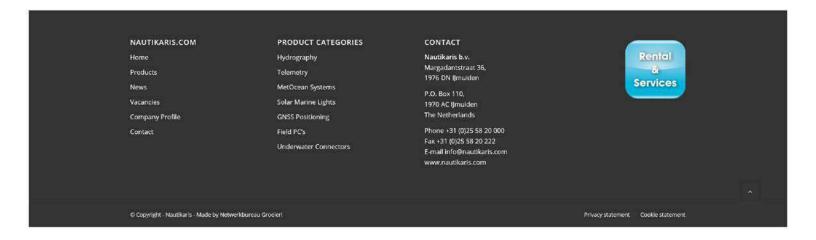


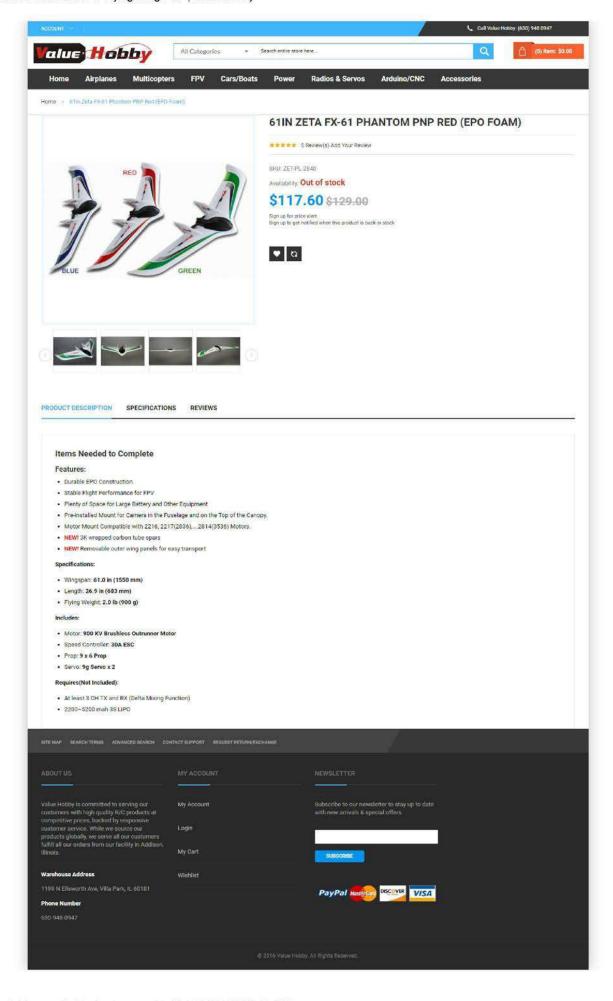
## Company Info

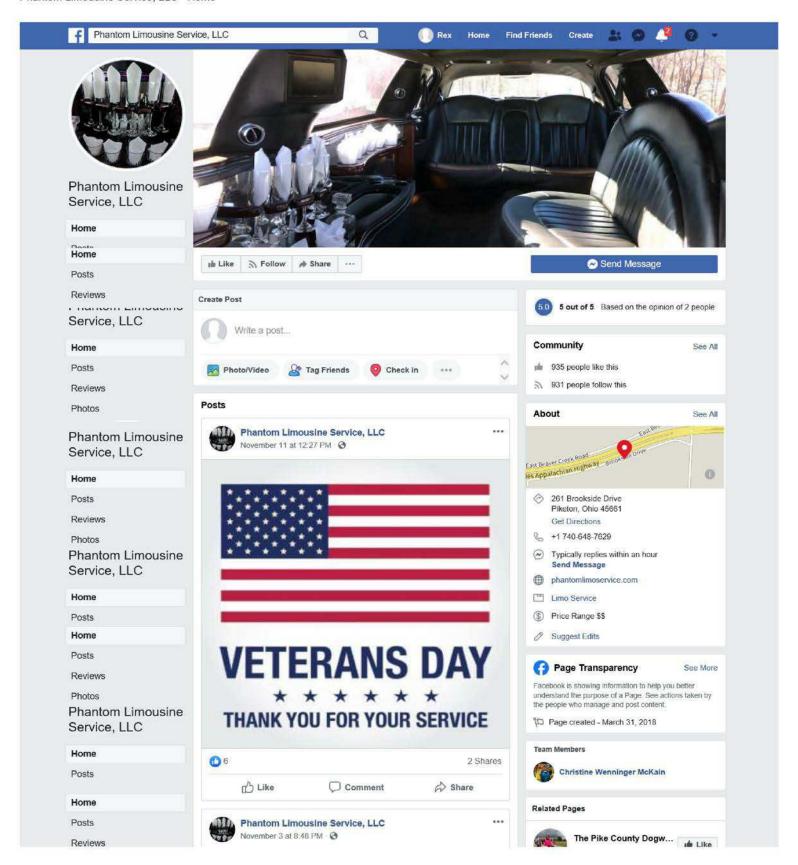
Deep Ocean Engineering, Inc.

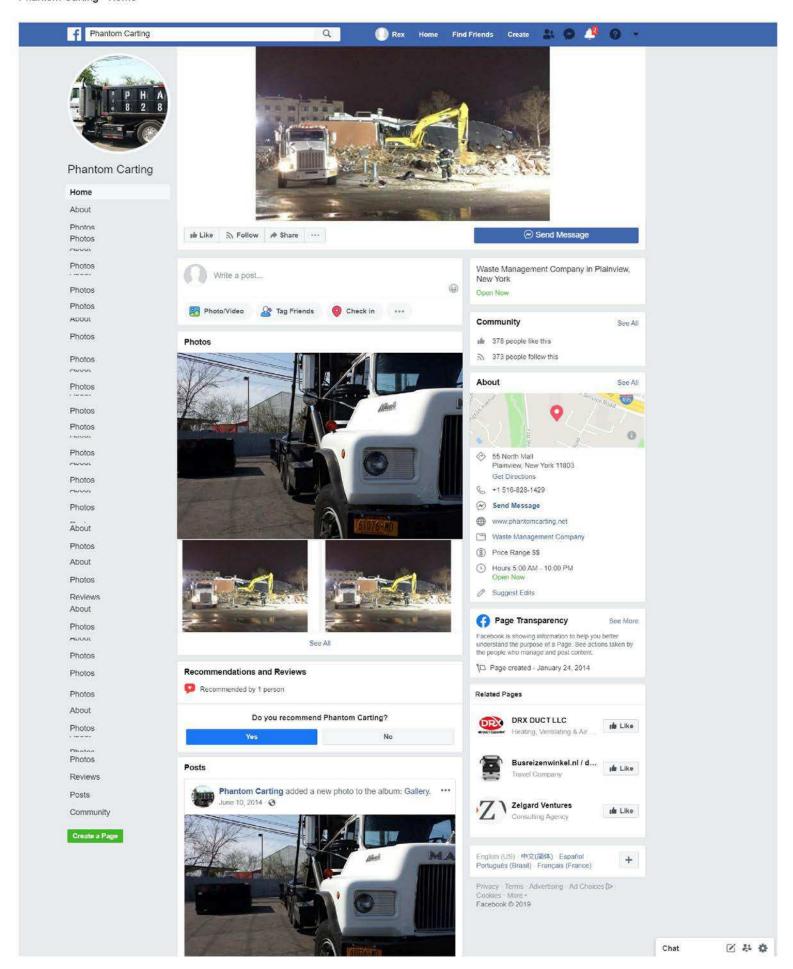
Based in the Silicon Valley, CA, we continue to build, design, and manufacture the highest quality ROV systems in the world. At Deep Ocean Engineering, we are able to accommodate all of your ROV and USV needs encompassing sales, service, production, instruction and installation of the most advanced systems in the world. We've got you covered above and below the surface.

Visit size for more information









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### LATEST INFORMATION

Latest Upgrades, Updates and Information about Past, Present and Future Phantom Aircraft Models

Brakes, Fuel Tanks, Sails, Pods, Flap Kit, Wing Struts etc.

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**Engine Options** 

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Phantom Flyers Forum

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For a complete list of replacement component pricing download the file below. We do our best to keep this up to date, but prices are subject to change.

Phantom Component Pricing (pdf)

▲ Download

## **ABOUT US**

Phantom Aeronautics LLC is a family owned business that manufactures Ultralights, Light Sport and Experimental Aircraft Kits.

Phantom's have been manufactured since the early 1980's. There have been many owners of the Phatom Aircraft Company through the years. The current owners of the company have been operating since December of 2003.

For craftsmanship, durability, and ease of construction, no one beats Phantom Aircraft. Phantom Ultralights have been produced for over 35 years and are one of the most well known ultralights.

The design is rugged and proven to be reliable and safe. Many options are available for older and newer aircraft.

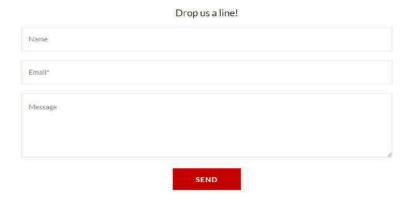
There are more than 1800 Phantoms in existendce. Full parts support is available for all existing Phantoms.

Disanton Accordinate will also to construct manager for Unreleance and manifest hereitable already through

having difficulty finding parts for your aircraft, let us know, we can help.

Please feel free to browse our website and discover the possibilities for your Phantom.

## **CONTACT US**



# Better yet, see us in person!

We are at the factory most days, M-F 9 am-4 pm; but we may be out delivering parts. Please call us to setup an appointment.

### Phantom Aeronautics LLC

2010 Hov Aire Dr, Three Rivers, MI 49093

Jim Bennett or Erik Pederson (269)-271-4568

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**Customer Support** 







# **BEST SELLERS**



Fantom Drives G-Force 3 USB 3.0 - Silver



Fantom Drives PCIe USB 3.1 Gen 2 10Gbps Type-C + Type-A Host Adapter Asmedia 2142 Chipset

\$39.95



GFORCE 3.1 SSD Series \$75.95

\$79.95







Fantom Drives G-Force 3 USB 3.0

\$59.95

Xbox One Hard Drive and Storage Hub

\$119.95 As low as: \$109.95

PlayStation 4 Hard Drive Upgrade Kit

\$104.95 As low as: \$85.95

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Contact Information

Corporate HQ:

20525 Manhattan Place, Torrance CA 90501

Support Email:

For Support: support@fantomdrives.com

П

Sales Email:

For Sales:

sales@fantomdrives.com

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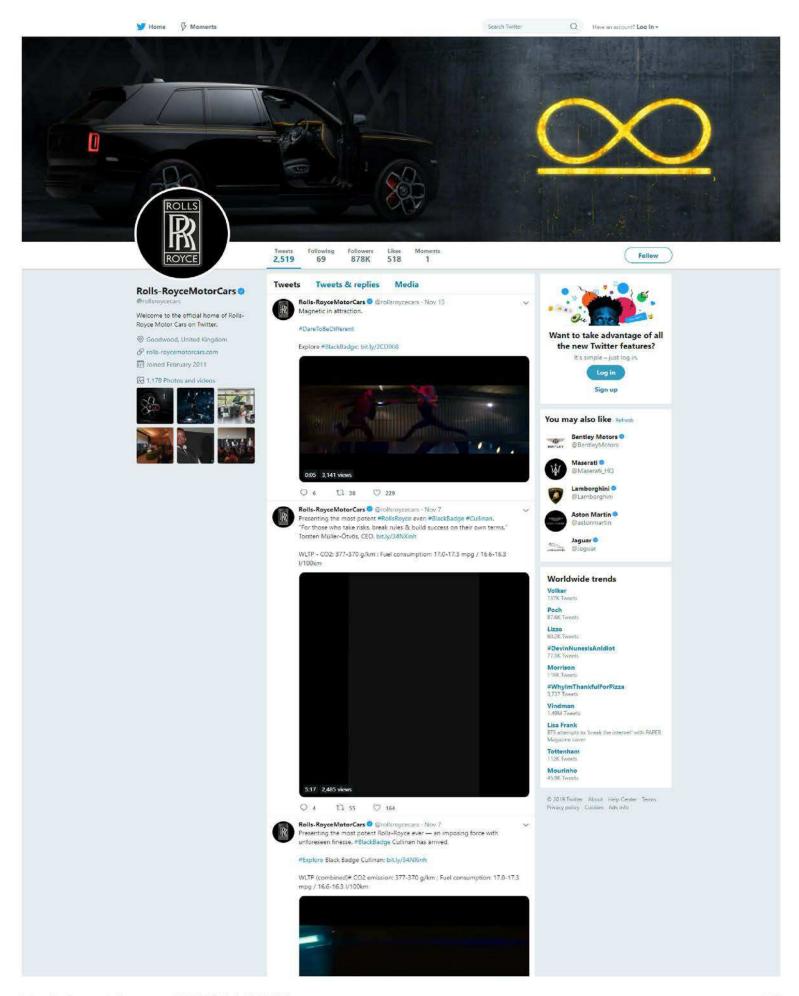


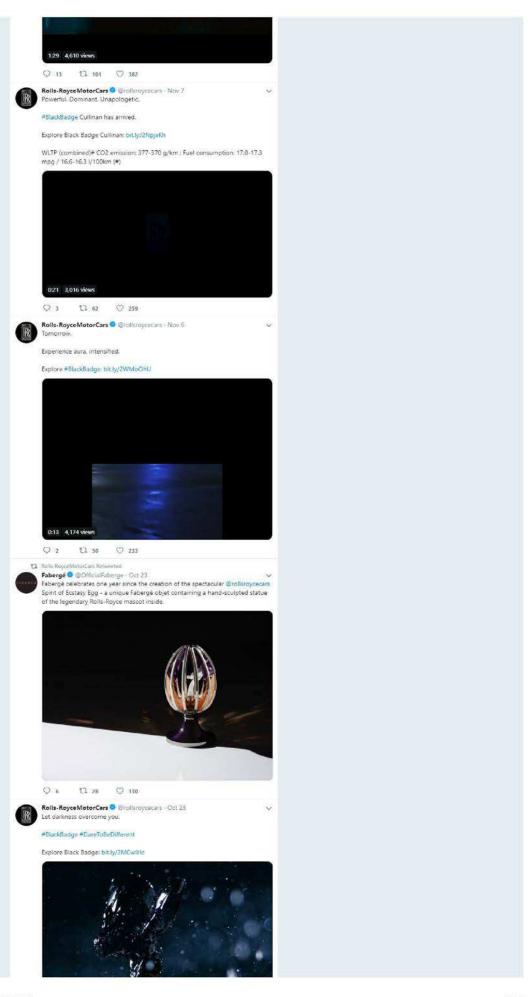


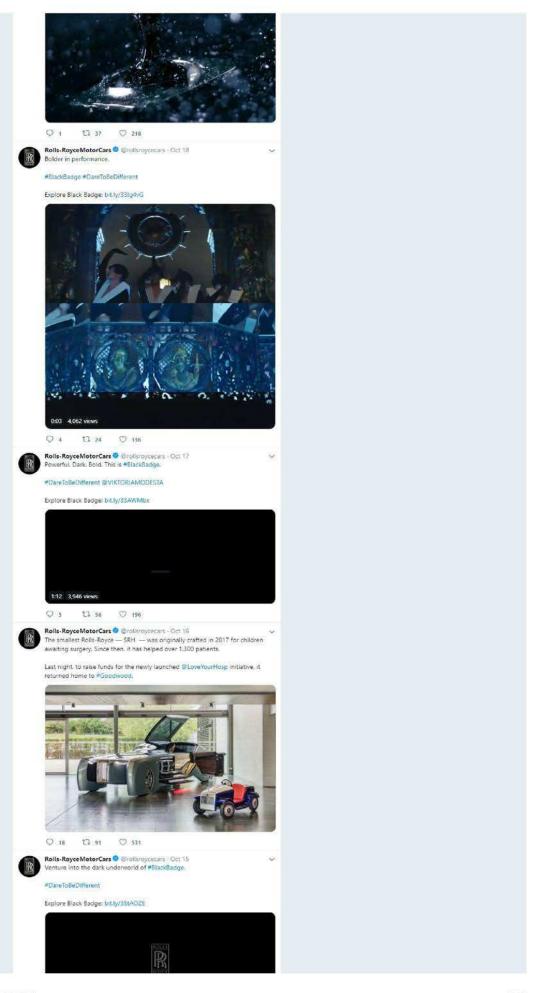


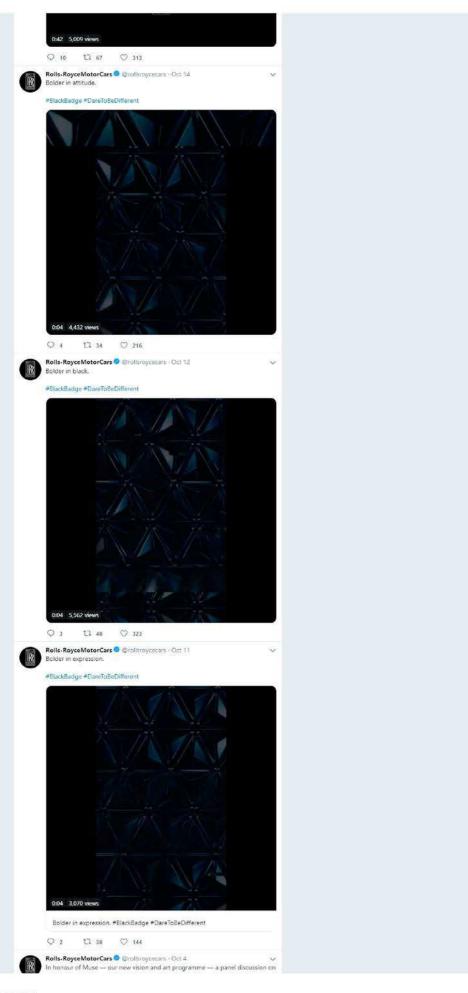


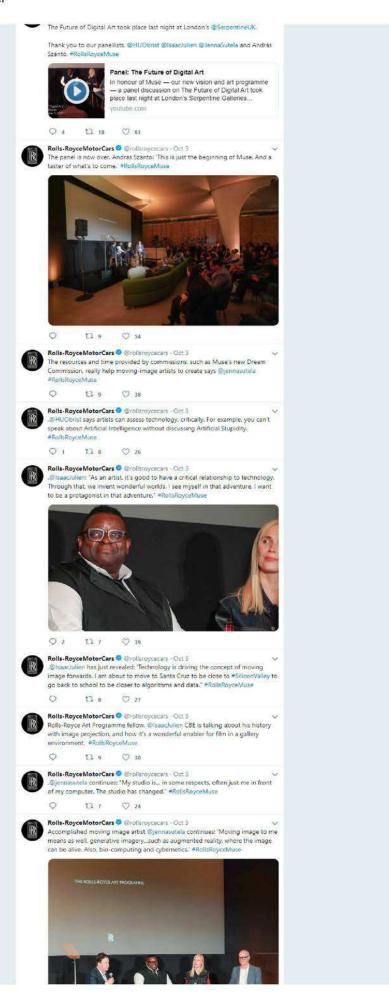
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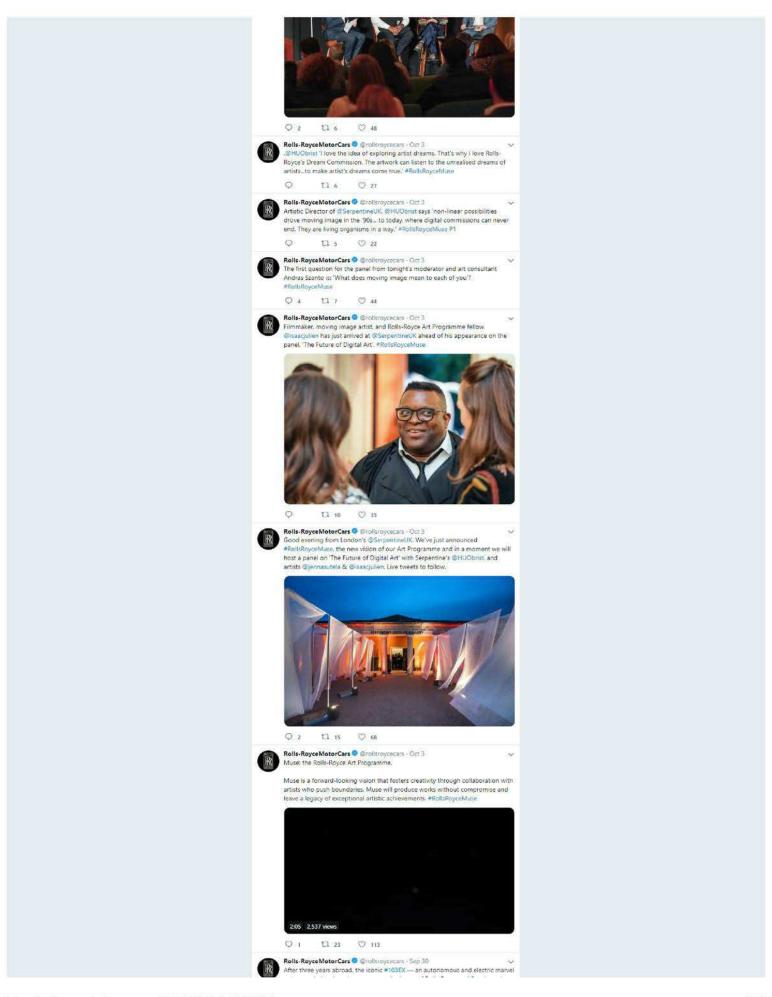


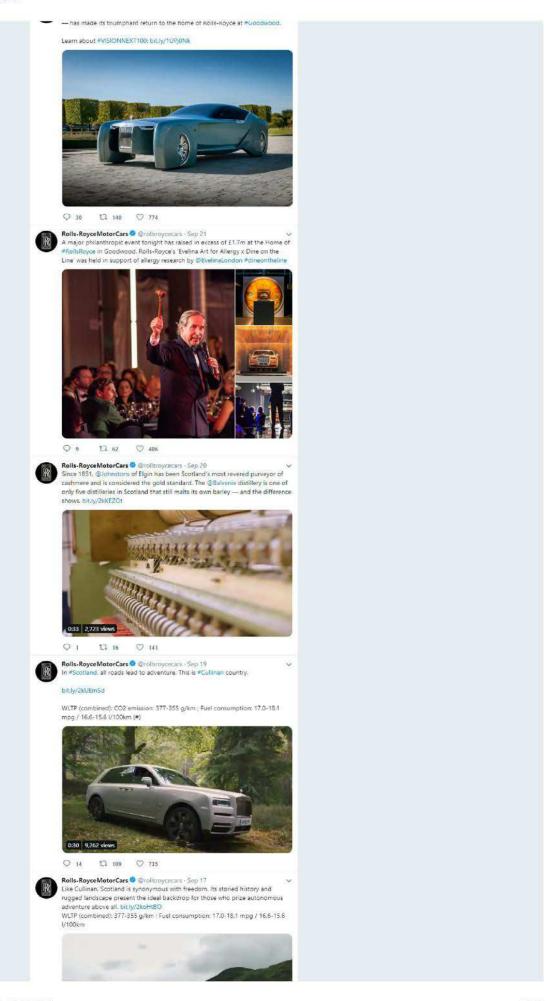




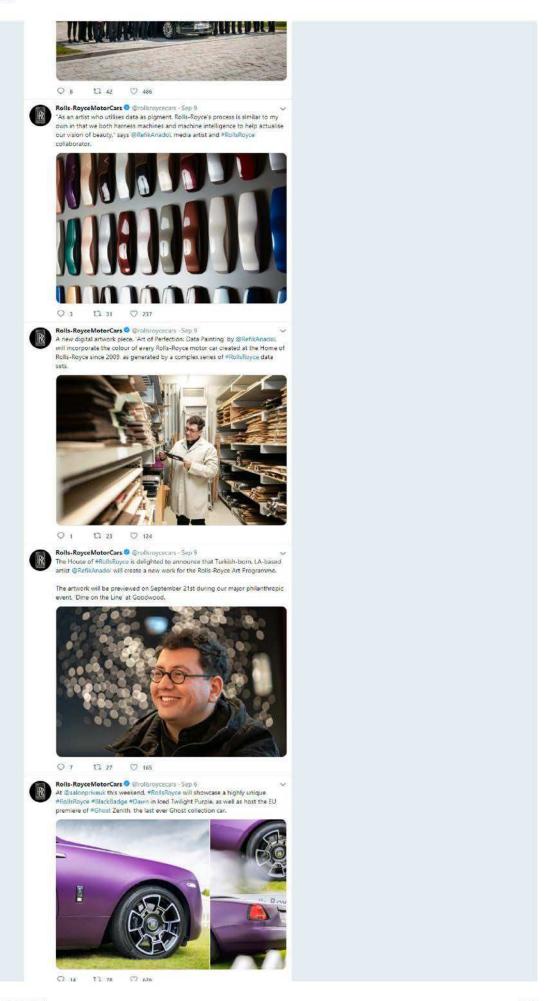


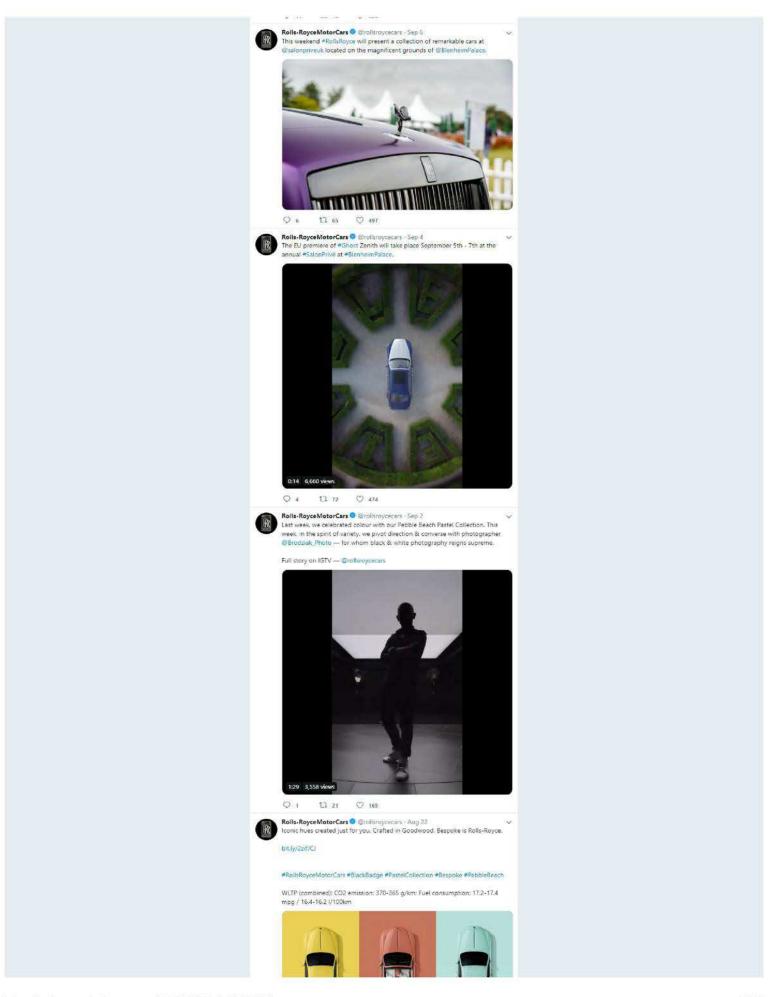


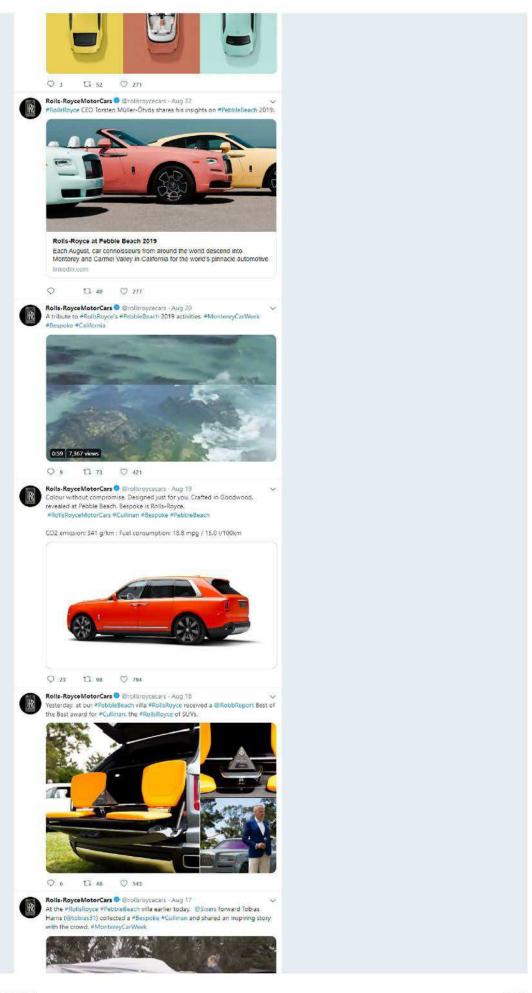


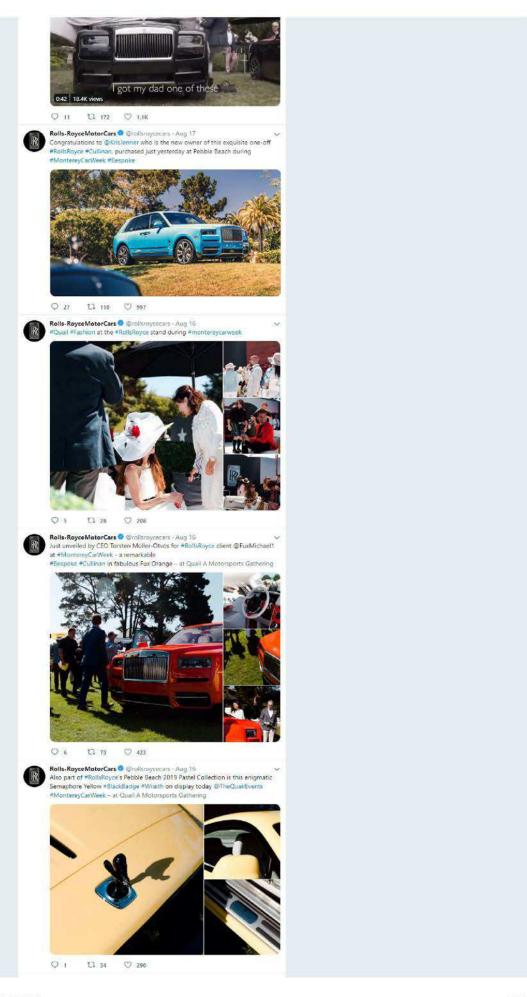


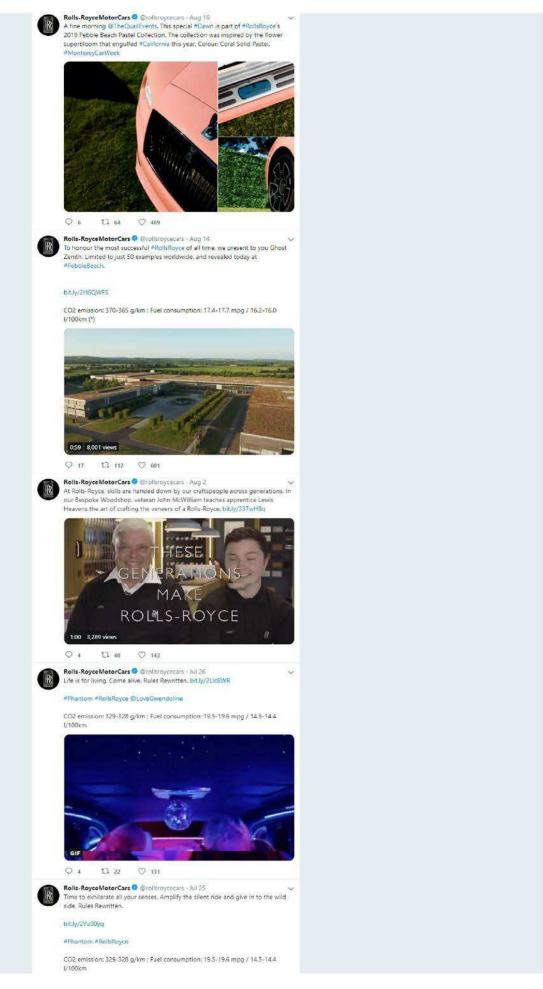


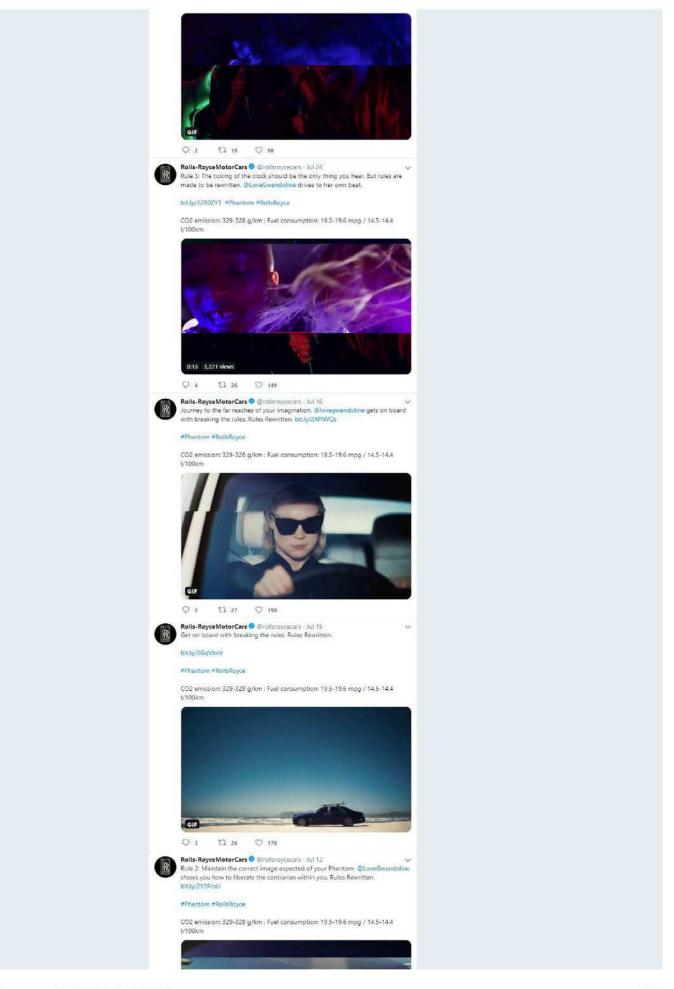


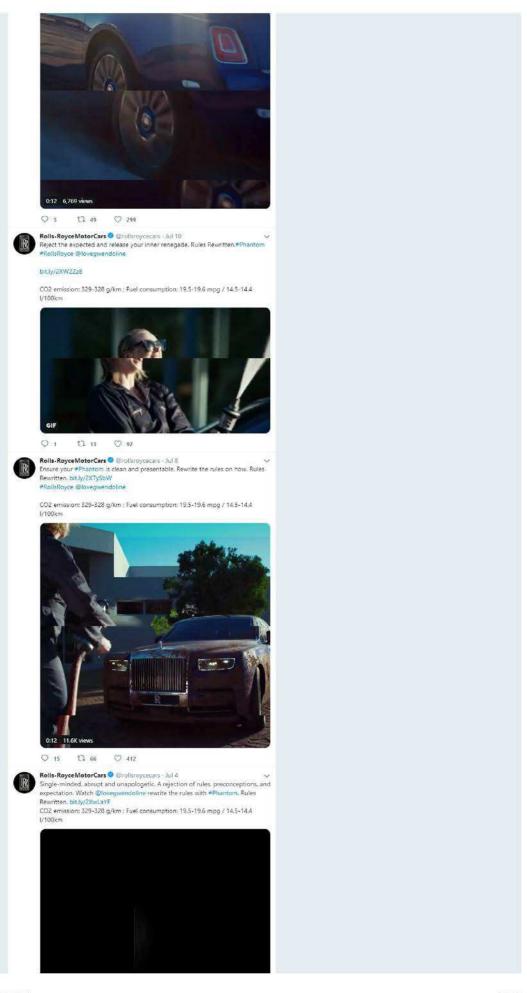




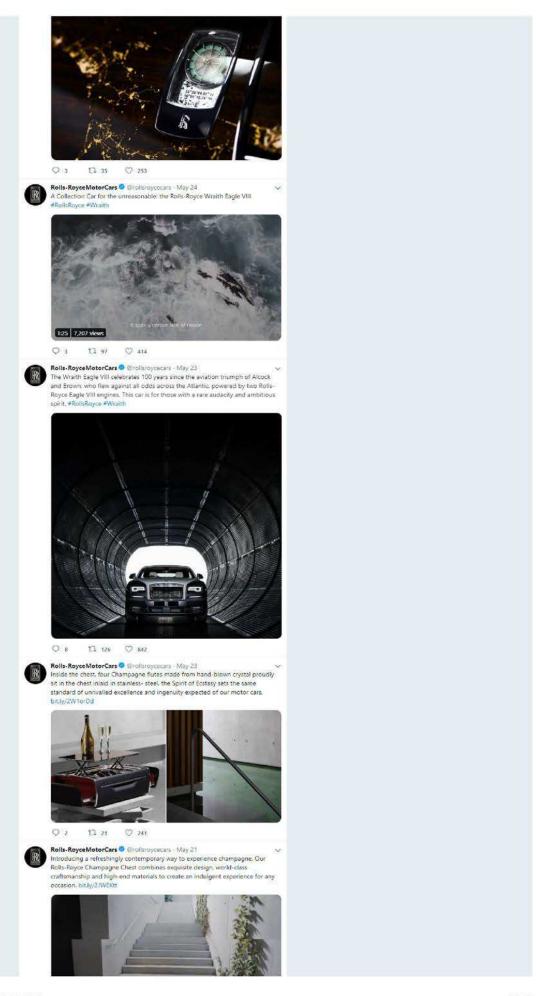


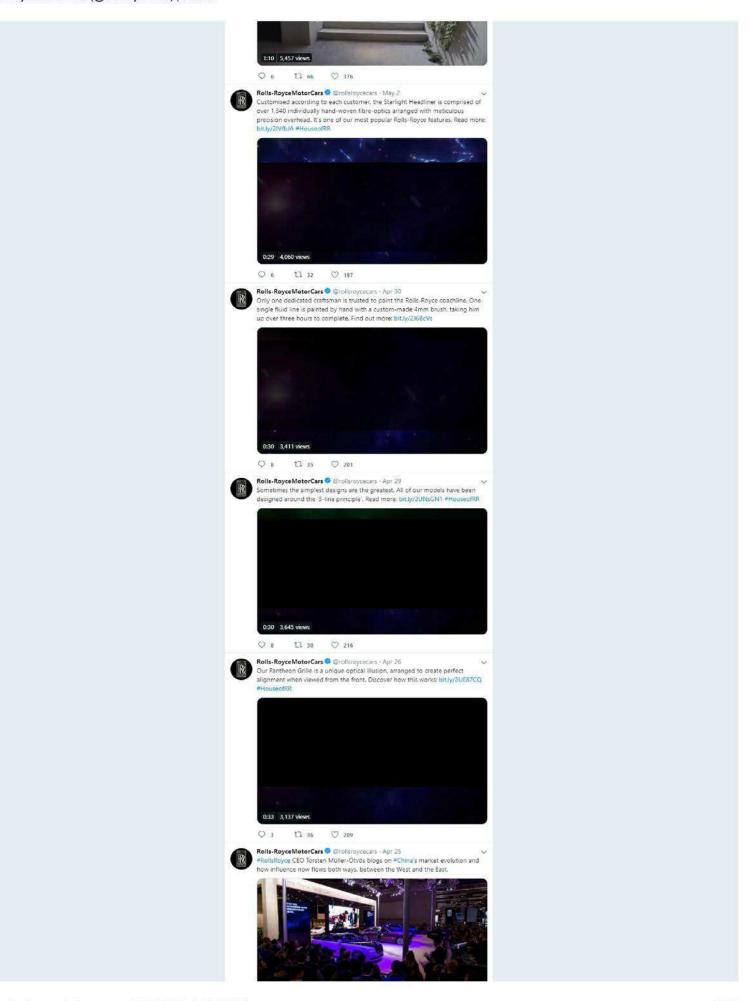


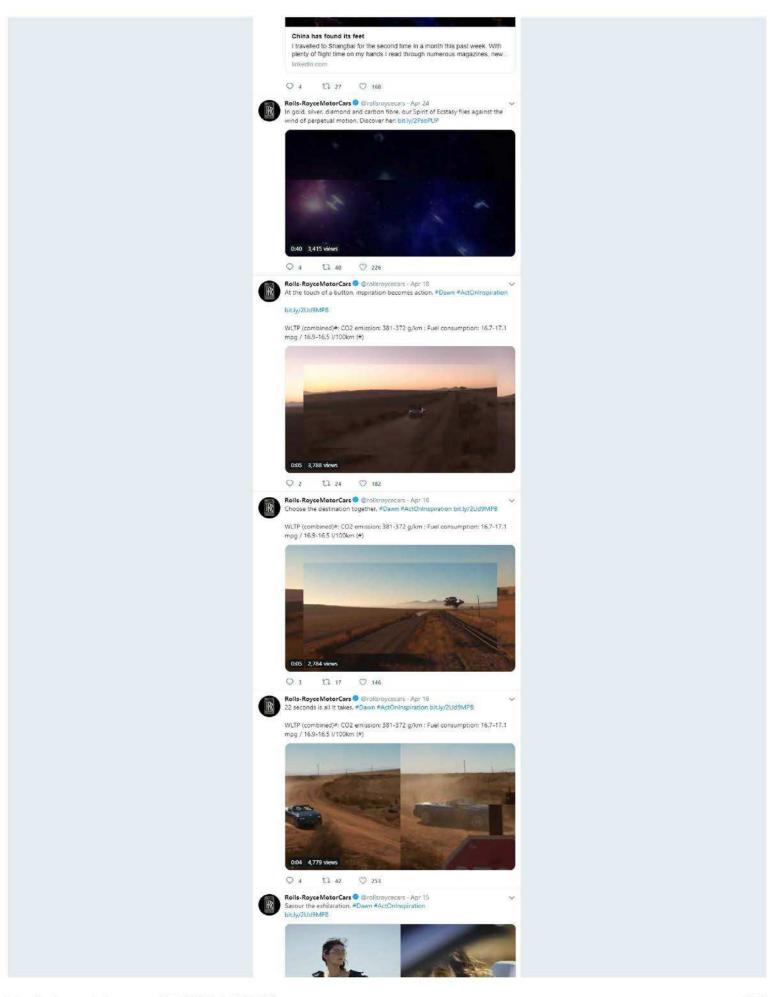


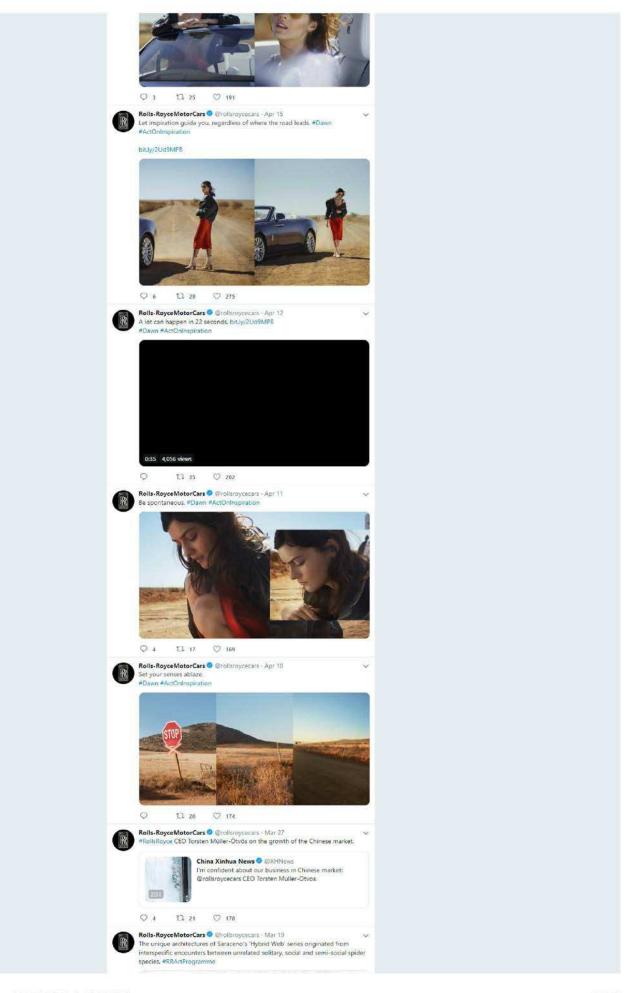


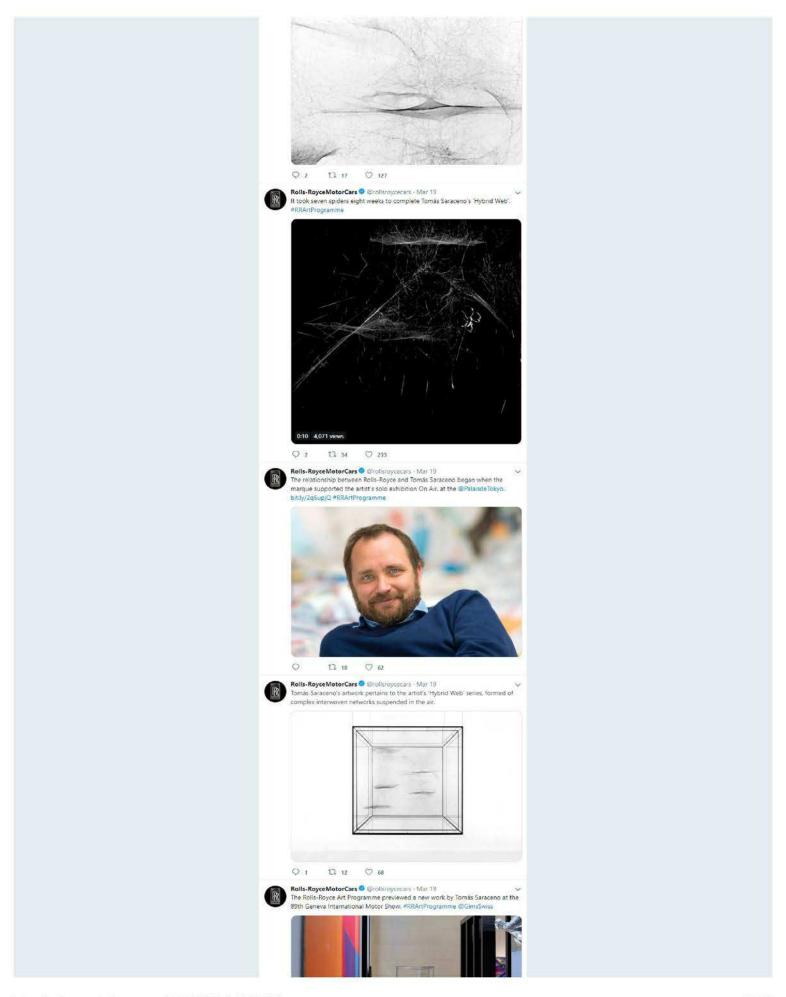


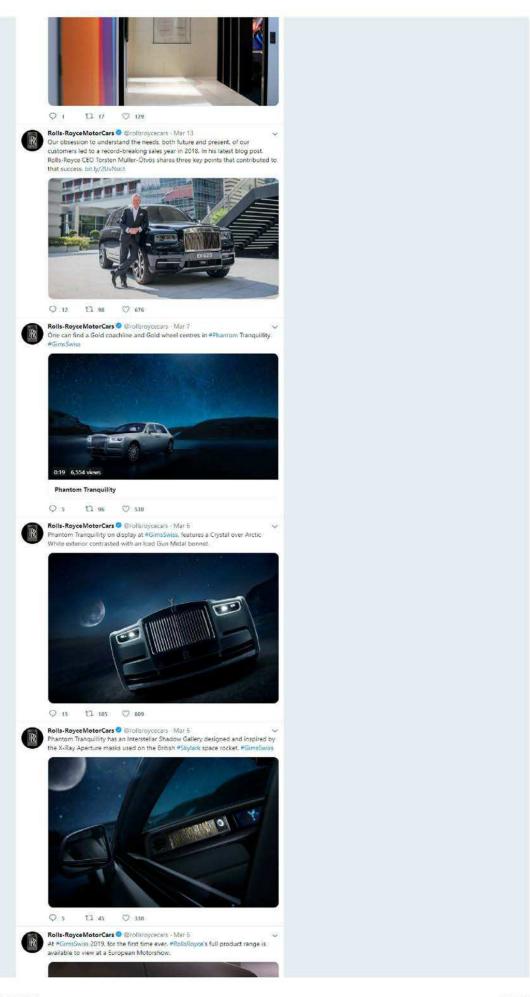




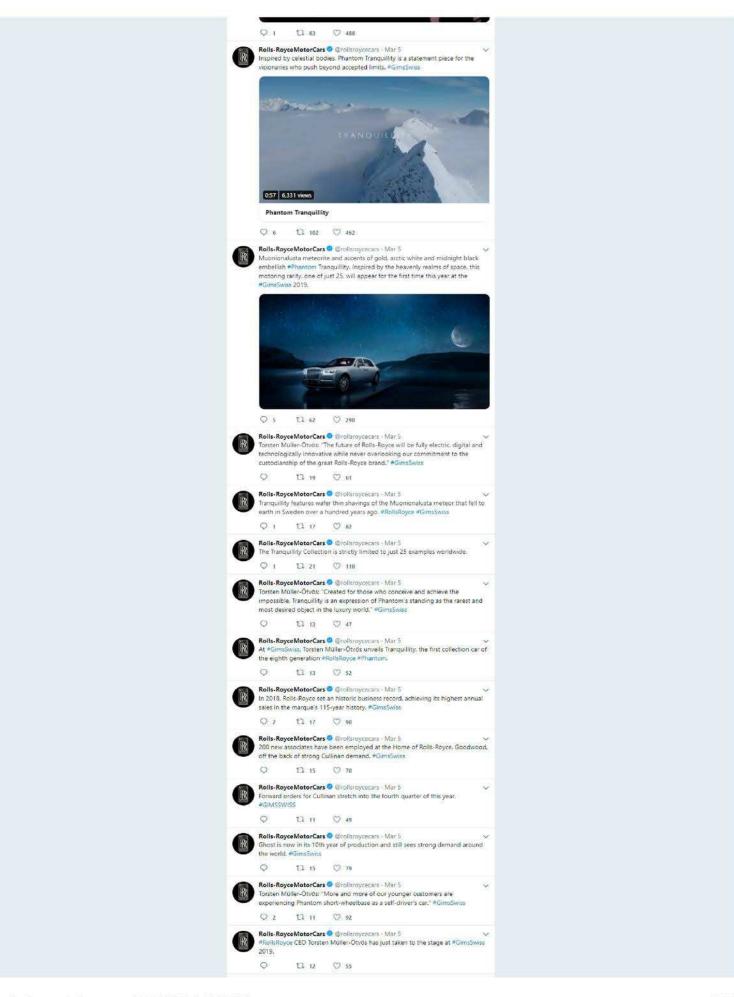


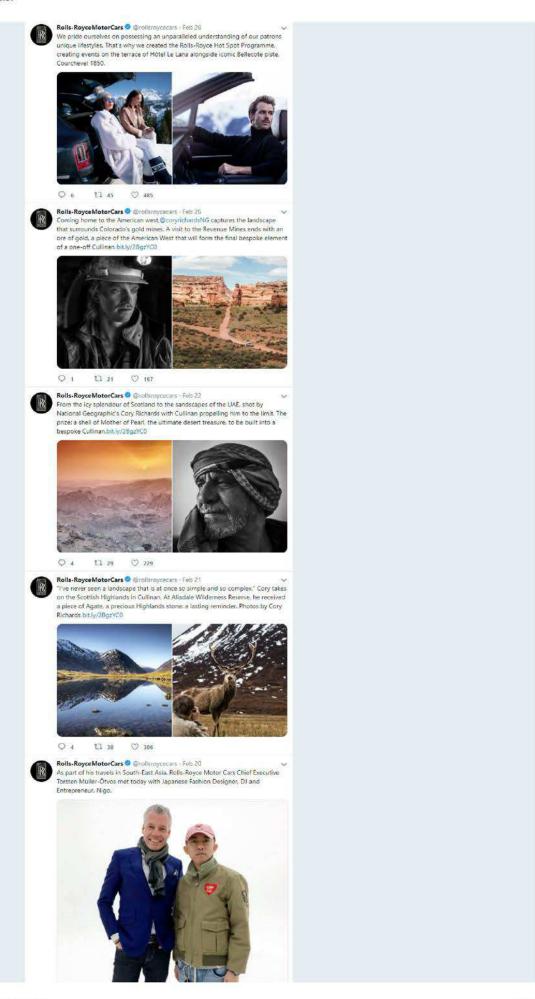


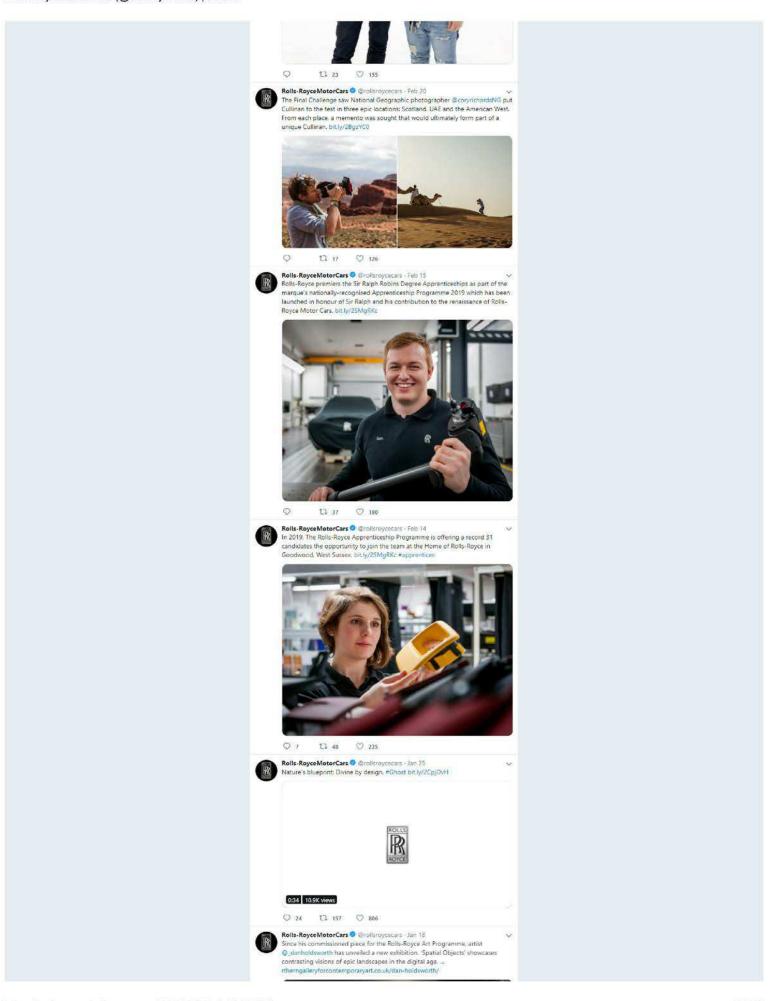


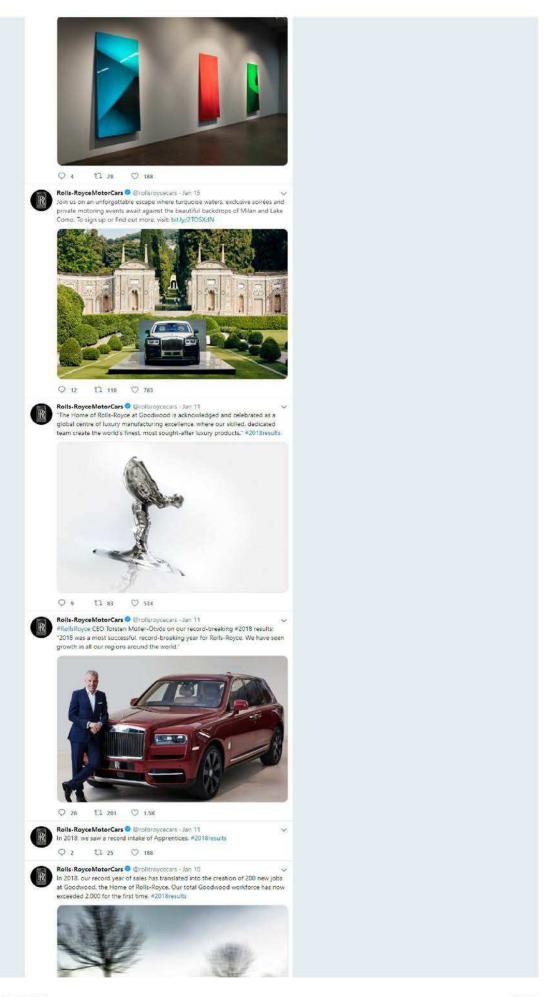


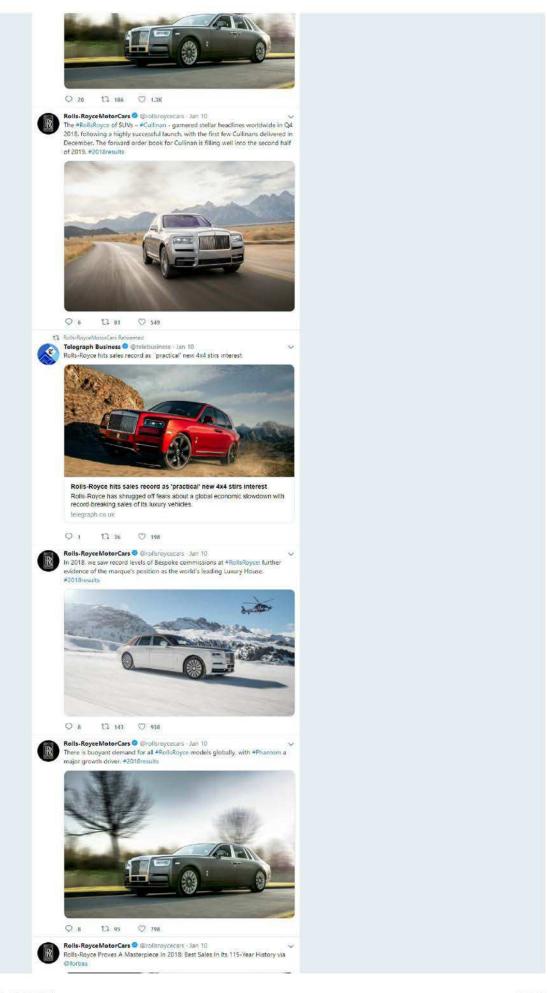


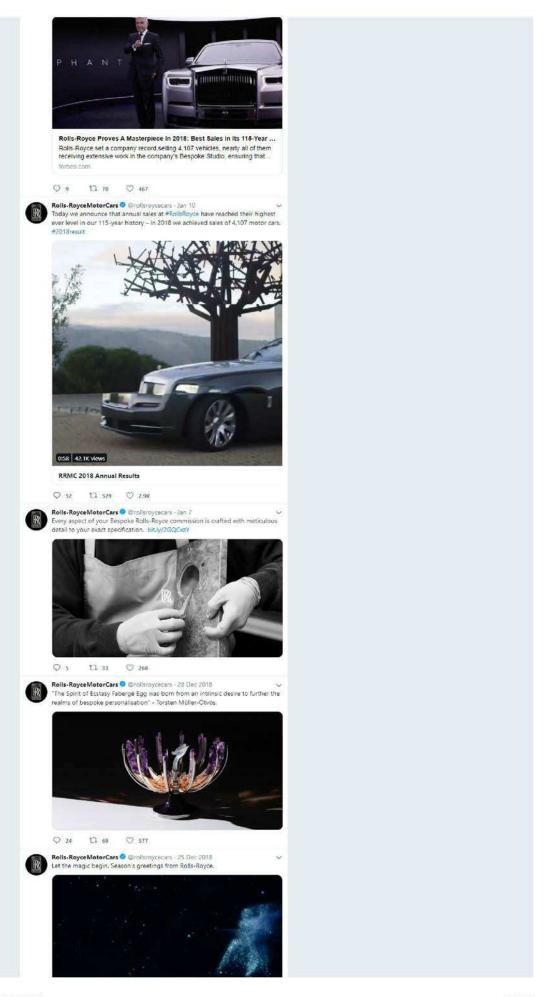


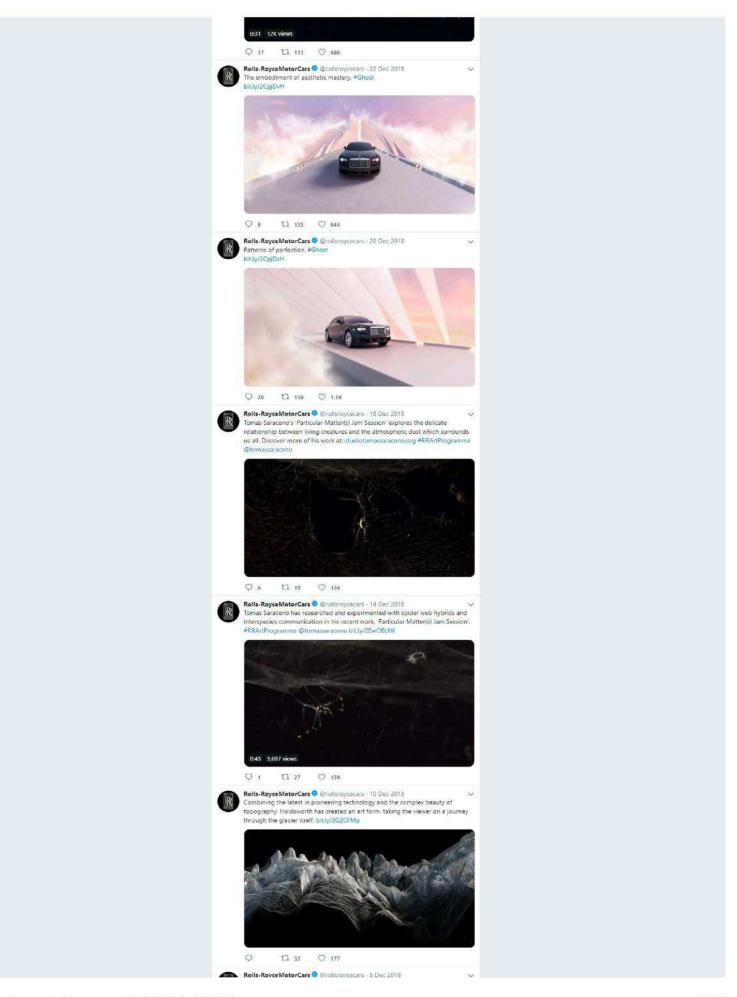


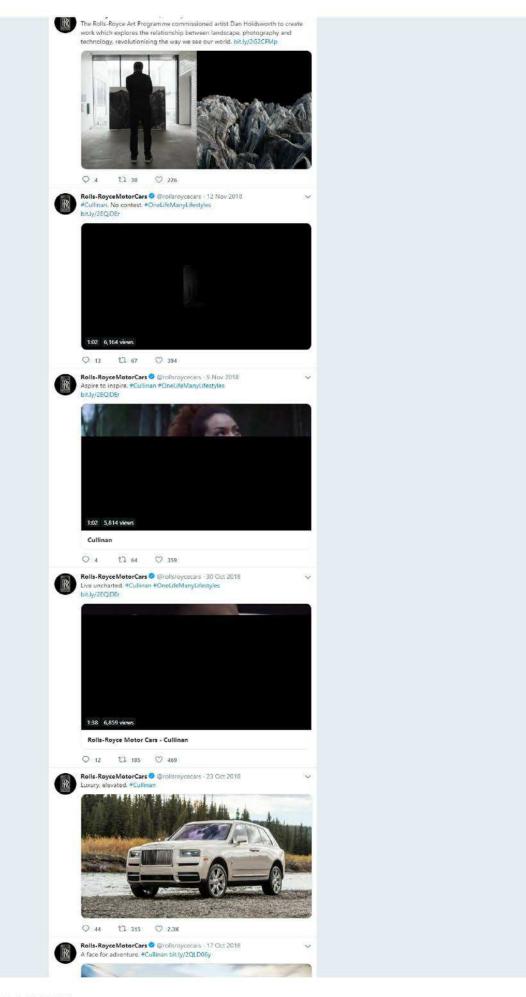


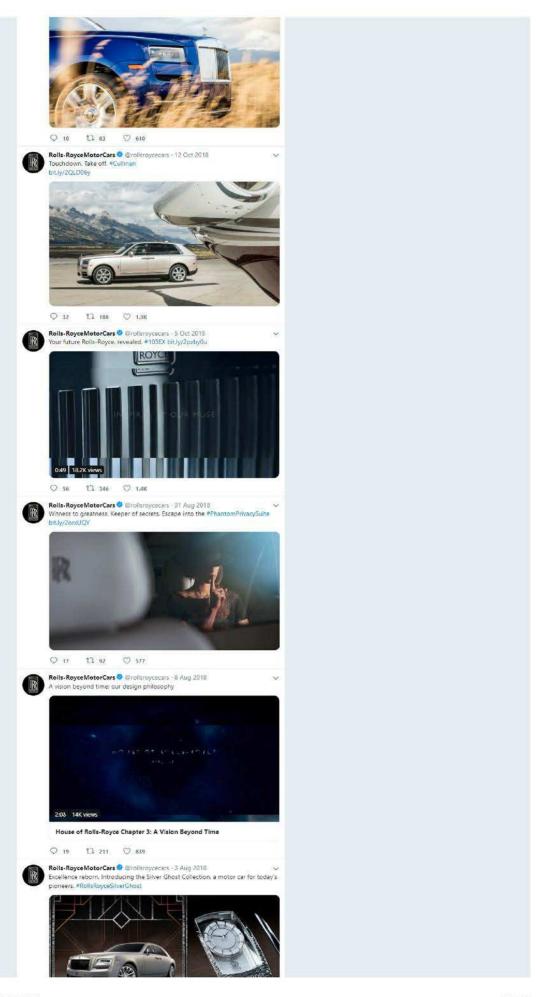


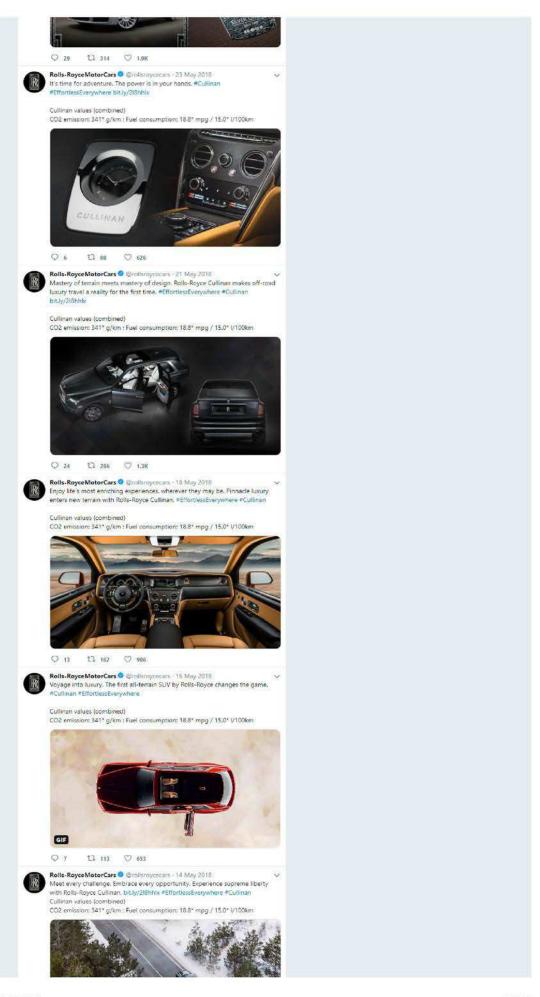




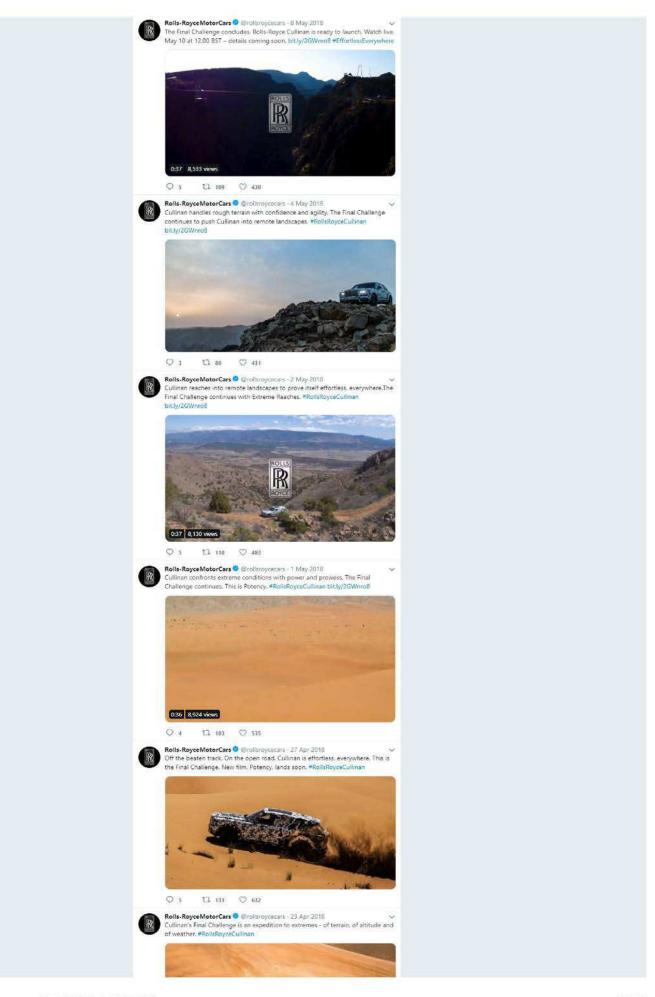


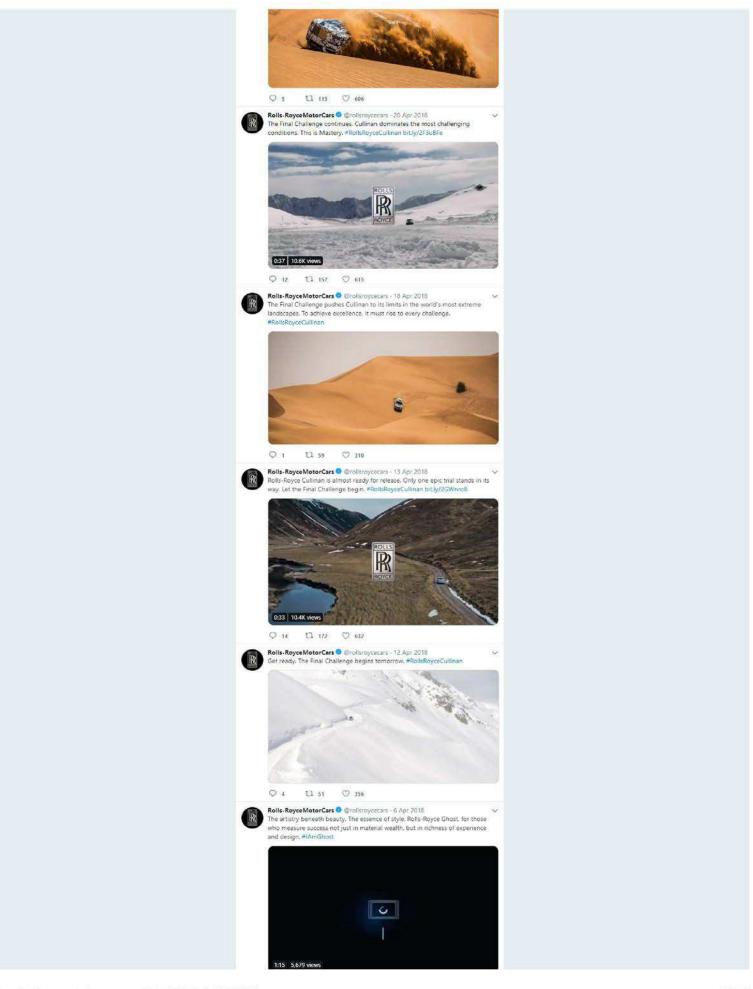


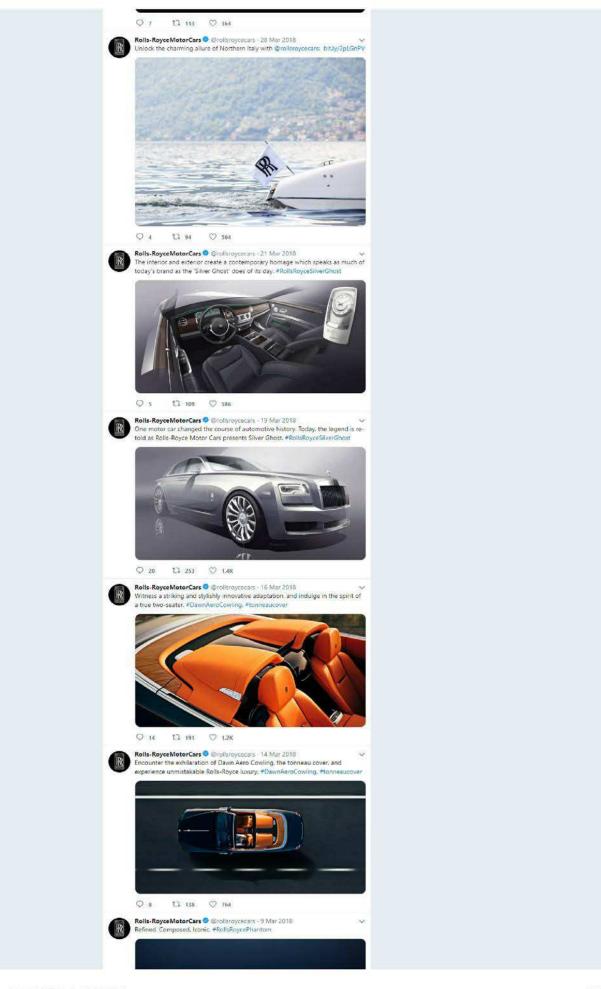


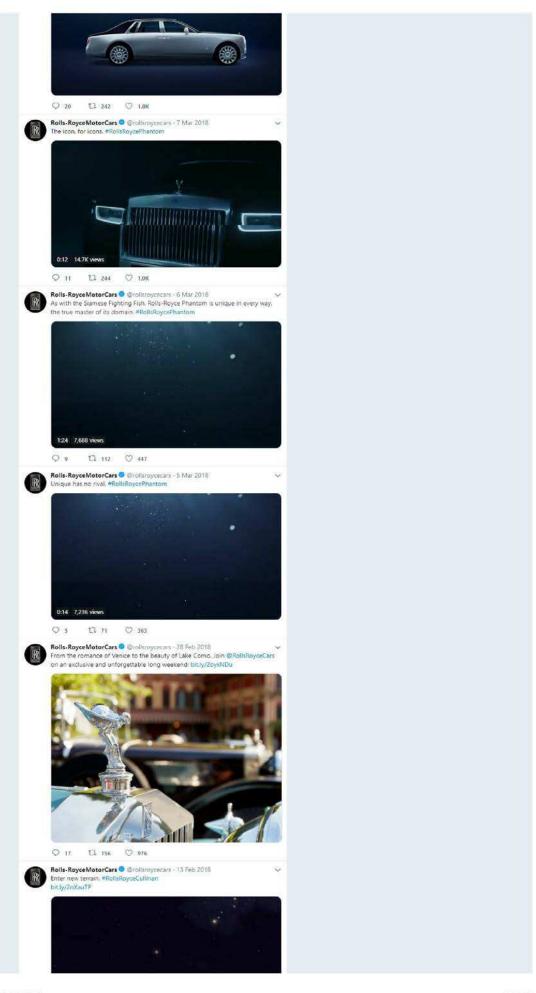


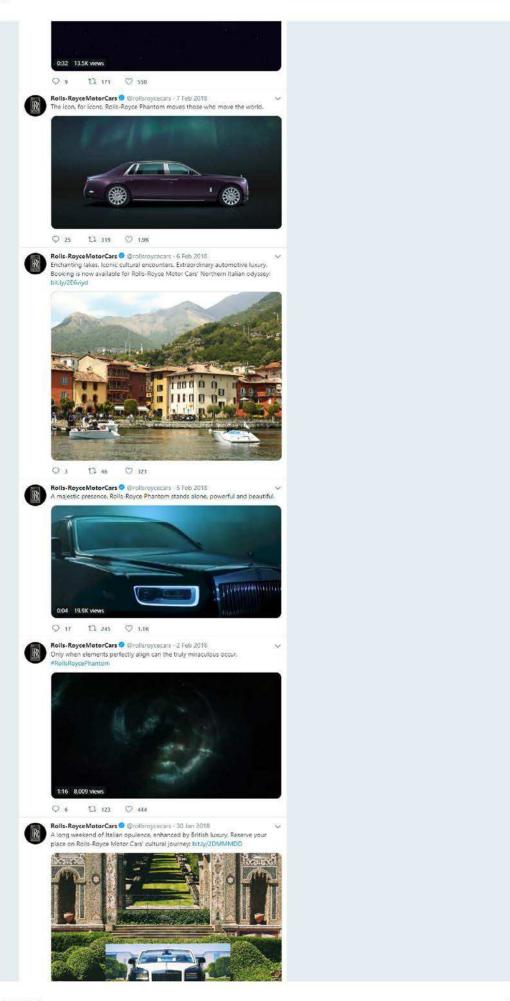


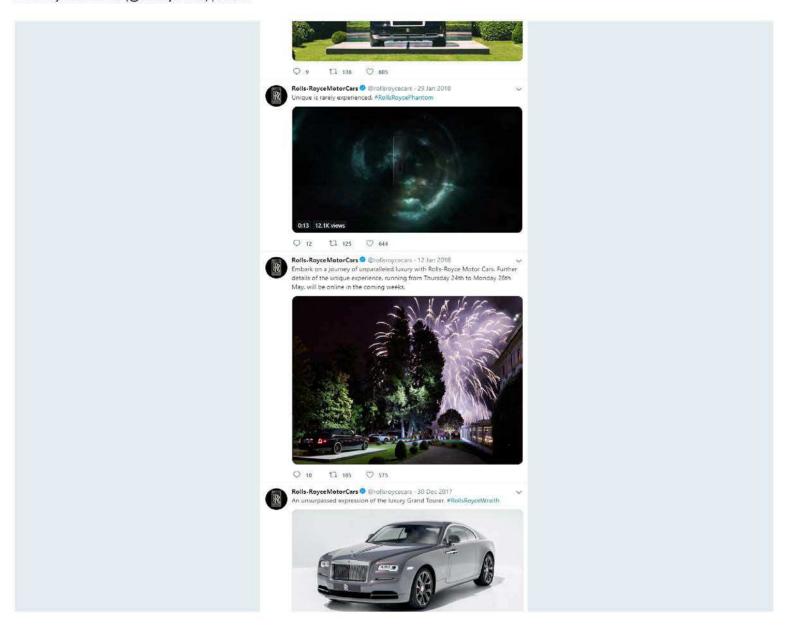
















# PHANTOM Racing Chassis

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After several years of tremendous success with the Select Seat, Harrill and his crew went back to the drawing board to revamp their line of fiberglass seats and make them even better. Utilizing the core of the Select, the new NeXgen seats are a better fitting, higher performing version. The seat's unique right-side design "cups" the driver's under-arm area, greatly reducing driver fatigue.

Improvements have also been made to the driver's lower back area, virtually eliminating discomfort. All of these changes have been made to improve driver comfort, while still allowing the NeXgen to be mounted lower than the average seat without sacrificing safety or support.

NeXgen Seats are standard on all PRC Chassis.



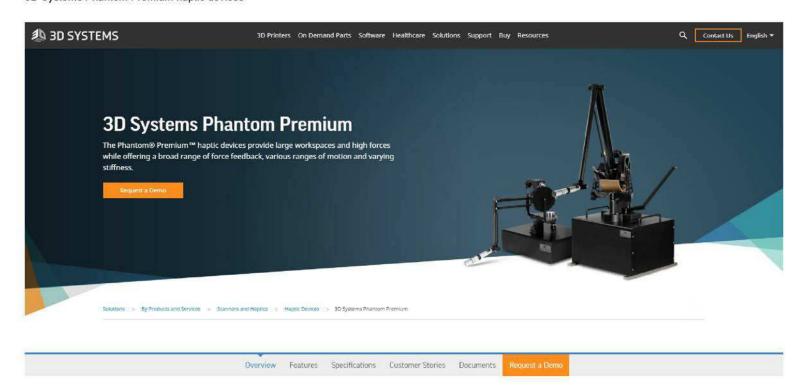


		t Dimensions Driv	er Weight	Height	
Rookie	•	Very Small Child	45-60	36"-48"	
Youth		Small Child	65-80	48"-60"	
Youth Large		Larger Child	80-100	48"-60"	
Intermediate	•	Pre-teen/Small Adult	100-130	54"-68"	Jean Size
Medium		Adult	140-180	56"-76"	30"-32"
Large	0	Adult	185-210	56"-76"	32"-34"
X-Large		Adult	215-230	56"-76"	36 - 38
XX-Large		Adult	235-265	56"-76"	38 +

Choosing the correct seat is crucial to your chassis performance. Be sure to pick a seat which is comfortable and supports your body in a way which will keep your body from moving from one side to another. If you are having a difficult time choosing your seat size, give us a call and we would be happy to assist you.

Measurements will vary slightly from seat to seat. No guarantee of size or fit is implied with these measurements.





# **Phantom Premium Haptic Devices**

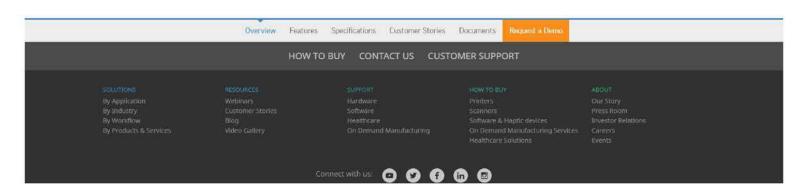


The Phantom® Premium™ (formerly Sensable Phantom Premium) haptic devices fulfill the requirements of a vast range of research and commercial applications. These high-precision devices provide the largest workspaces and highest forces in the Phantom line while offering a broad range of force feedback workspaces, various ranges of motion and varying stiffness.

With ranges of motion approximating hand movement pivoting at the wrist, elbow or shoulder, the Phantom Premium can fulfill the requirements of manufacturing verification, machine component visualization, medical research and simulation, and an assortment of other haptically enabled 3D applications.

Three models make up the Phantom Premium line of haptic devices: Premium 1.0, Premium 1.5 and 1.5/HF, and Premium 3.0. While the models are designed with different ranges of motion and specifications, each one is constructed for maximum durability and simple PC connection via the parallel port (EPP) interface. See the Phantom Premium Features page for more information on the individual models.

To learn more, visit the 3D Systems Haptics Applications Gallery

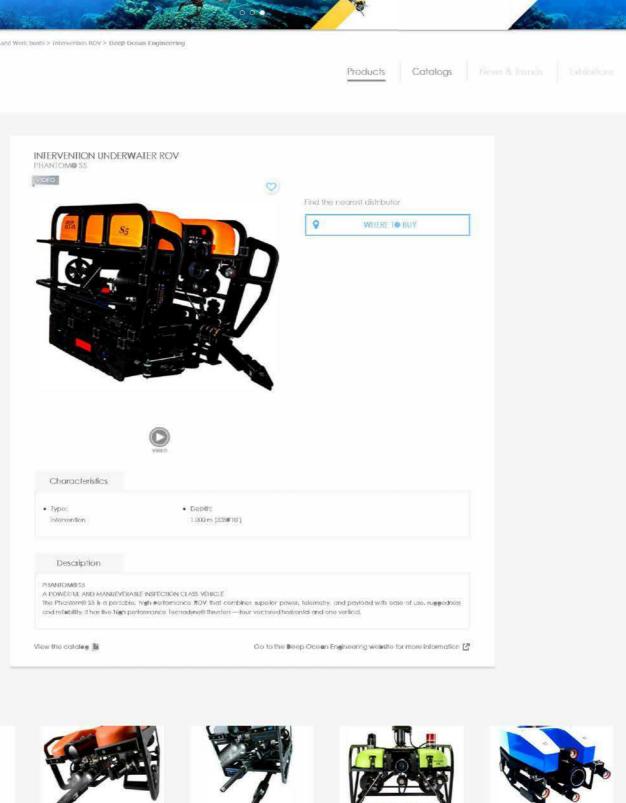


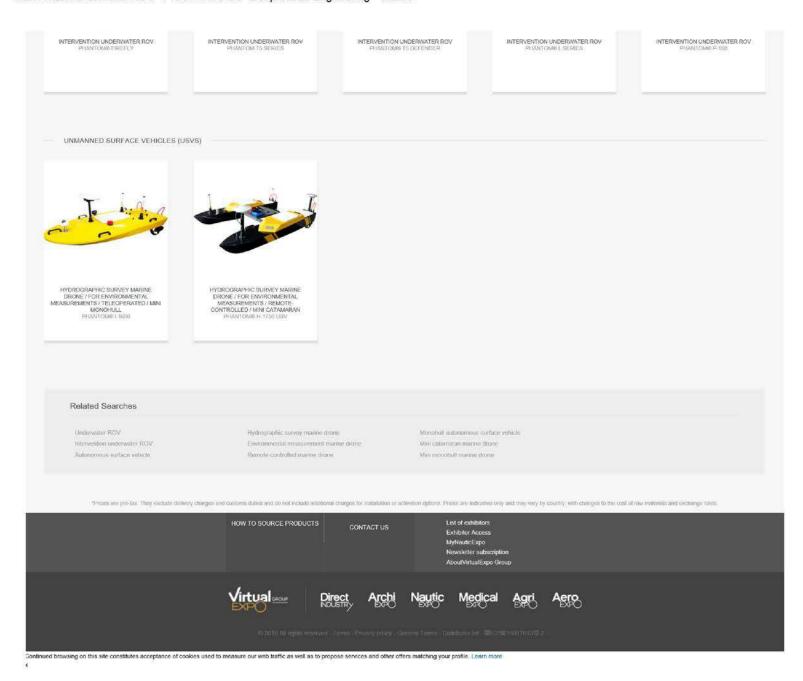


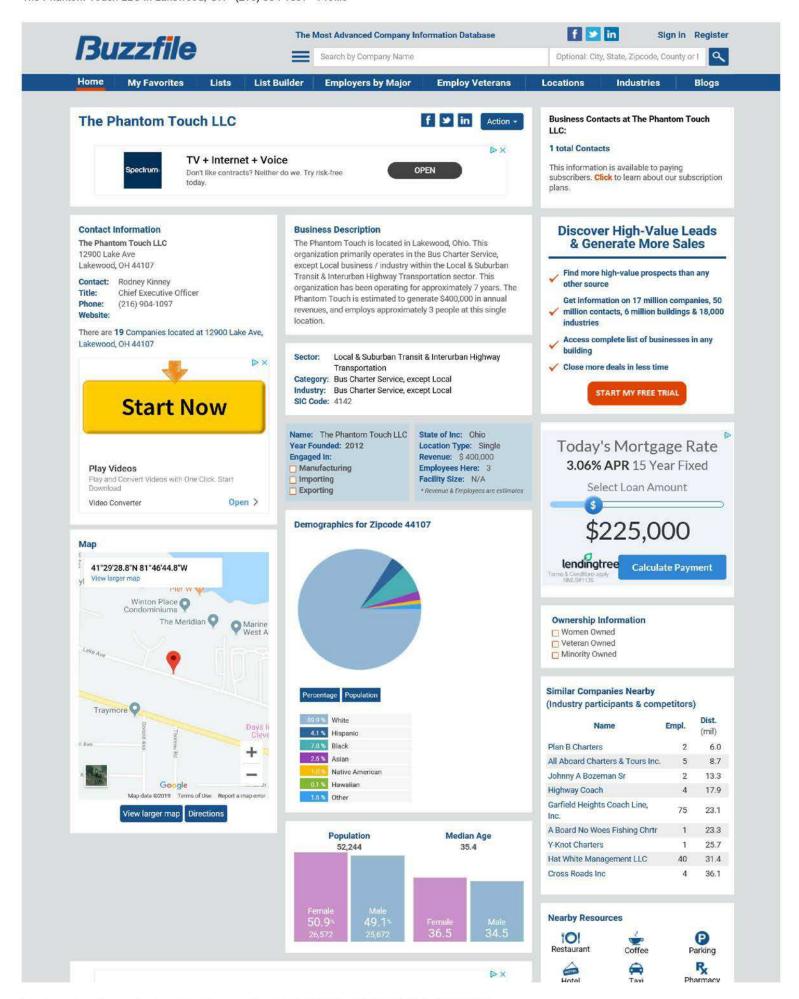
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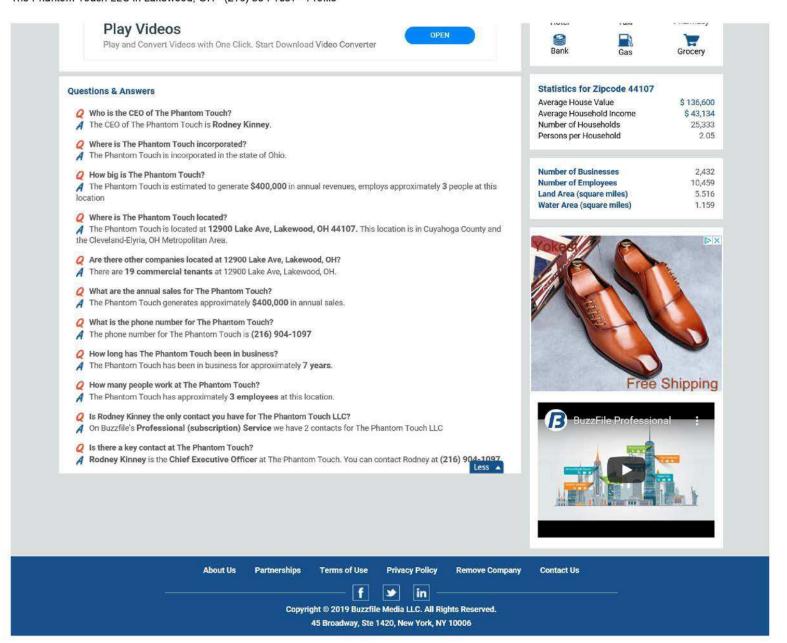














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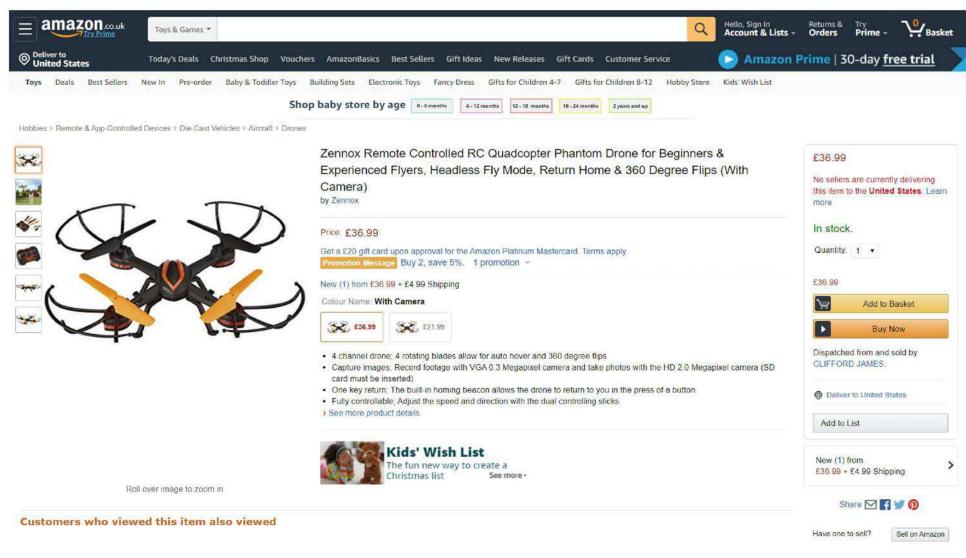


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Red Sky Phantom WiFi FPV Drone with HD Camera Live Feed 2.4GHz 4CH Bundle with Must Have Accessories... £99.00

# Sponsored products related to this item



DJI Mavic Air Drone Fly More Combo - Arctic White (UK version with UK PSU) 会会会会会 71 £899.00 prime



Holy Stone GPS FPV RC Drone HS100 with Camera Live Video 1080P HD and GPS Return Ho. **会会会会** 378

£209.99 prime



Holy Stone HS160 Shadow FPV RC Drone with 720P HD Wi-Fi Camera Live Video Feed 2.4G **会会会会** 135

£76.99 vprime



RC Drone, 2.4Ghz RC Quadcopter Auto Return Headless 3D Flips Remote Control Helicop £37.89



RC Quadcopter, 2 4GHz RC Quadcopter, 2 4Ghz 4CH Foldable Altitude Hold Wifi Remote Control Headless Mode One Key Quadcopter Drone Return Remot Headless Mode With. £11.46



Axle 2.4Ghz Headless Mode 360 Degree Flip Remote Control £22.19



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Ad feedback ....

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Mini Drone with Altitude Hold for Kids, 2.4Ghz 6-Axis Remote Control Drone Quadcopter Indoor... 会会会会会5 £12 99



Akamino Mini Drone 2.4GHz Foldable Pocket RC Quadcopter with Headless Mode, 3D Flips... 会会会会会 57 £25.99 prime



Camera & Video Recording for Adults Kids - Remote Control Ultra Stable 4... 會會會合合 123 £38 99 vprime

Drone Quad Cam HD



£33.89

**DROCON Bugs 3** Brushless Motor Drone, RC Quadcopter 2 speeds for Beginners and Experts.... ★★★☆ 257 £39.99 prime



Following Butterfly Mini RC Drone for Kids, Beginners Radio Remote Control Pocket Quadcopter Drone Indoor&Outdoor Toys... £19.64



Mini RC Quadcopter, JJRC H20 Mini Remote Control Helicopter 2 4G 4Ch 8-Axis Flight Time 6-Axis Gyro Gyro Nano Hexacopter... 會會會會合1 £14 78



Honor-Y Drone with Camera, 20 Minutes Long. 2.4GHz RC Quadcopter Drone with FPV Camera 會會會會合4



U'King Mini Drone Helicopter for Kids Beginner RC Quadcopter with Altitude Hold/3D. 食食食食食2 £23.99 prime

# Special offers and product promotions

Colour Name With Camera

- . Save 5% each on Qualifying items offered by CLIFFORD JAMES when you purchase 2 or more. Here's how (terms and conditions apply)
- . Kids' Wish List A fun and safe way to explore gift ideas with your children. Learn more.
- . Buy this item and get 90 days Free Amazon Music Unlimited. After purchase, you will receive an email with further information. Offer valid for a limited time only. Terms and Conditions apply. Learn more.
- · Amazon Business: For business-exclusive pricing, quantity discounts and downloadable VAT invoices. Create a free account

# Have a question?

Find answers in product info, Q&As, reviews

Q Type your question or keyword

# **Product information**

Colour Name: With Camera

Technical Details Additional Information

https://www.amazon.co.uk/Zennox-Controlled-Quadcopter-Beginners-Experienced/dp/B07J5KJKJN [11/16/2019 02:14:56 PM]

2/5

Assembly Required	No
Batteries Required?	No
Batteries included?	No
Remote Control Included?	No
Color	With Camera

ASIN	B072JMT2YD
Customer Reviews	Be the first to review this item
Amazon Bestsellers Rank	1,060,585 in Toys & Games (See Top 100 in Toys & Games) #2961 in Remote & App-Controlled Drones #16403 in Electronic Toys
Delivery Destinations:	Visit the Delivery Destinations Help page to see where this item can be delivered.
Date First Available	8 Oct 2018

### Feedback

Would you like to tell us about a lower price?

If you are a seller for this product, would you like to suggest updates through seller support?



### Fly Responsibly

To learn more about safely and responsibly flying your drone in the UK, visit our Fly Responsibly page here.

### Product description

Colour Name With Camera

The sky's the limit with this high-flying Sky Phantom Drone. This drone is sure to entertain any gadget and fun loving fan. Because of the headless fly mode this model is perfect for everyone, from entry level pilots to those who have a serious flying hobby. The headless fly mode allows you to control the drone easily and ignore which direction is supposed to be the front of the drone. It works by algorithms running the drone's micro-controller ensuring that any directional change is compensated.

Using the dual stick remote you can control the four propeller blades to move forward, backward and side to side. The innovative design also allows you to do 360 degree flips and has an auto hover function. This allows you to manoeuvre more technical moves. The controller also features fully adjustable frim to stop your drone form drifting. In addition to these features the drone controller also offers a one key return option, allowing your drone to return straight to you with just a press of a

This drone also has the addition of an on-board camera which is capable of taking photos with the HD 2.0-megapixel camera and recording videos with the VGA 0.3-megapixel camera. In order to take photos you must have an SD card inserted (included). There are also 4 spare rotor blades included.

# Specification

- Dimensions: L285 x W28.5 x H8cm
- Weight 200.6g
- HD 2.0 Megapixels
- VGA 0.3 Megapixels
- 4GB SD Card
- · Power light
- . Drone: 3.7V Lithium Battery 6A 22.2W 300mAh
- · Remote: 6V DC 4x AA batteries
- · 2.4GHZ transmitter · USB cable
- Age 14+
- Please note it is advised not to use the drone in wet conditions or leave exposed to sun light.

# Sponsored products related to this item



DJI Mavic Air Drone Fly More Combo - Arctic White (UK version with UK PSU) 会会会会会 71

£899.00 vprime



Holy Stone HS160 Shadow FPV RC Drone with 720P HD Wi-Fi Camera Live Video Feed 2.4G. ★★★☆☆ 135

£76.99 prime



Holy Stone GPS FPV RC Drone HS100 with Camera Live Video 1080P HD and GPS Return Ho... 会会会会会 378



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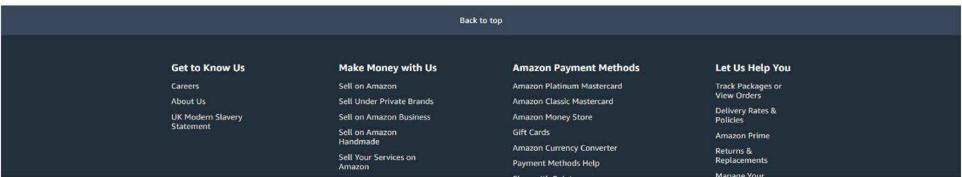
RC Quadcopter 2.4Ghz Wifi Remote Control Quadcopter Drone Headless Mode With... £11.46

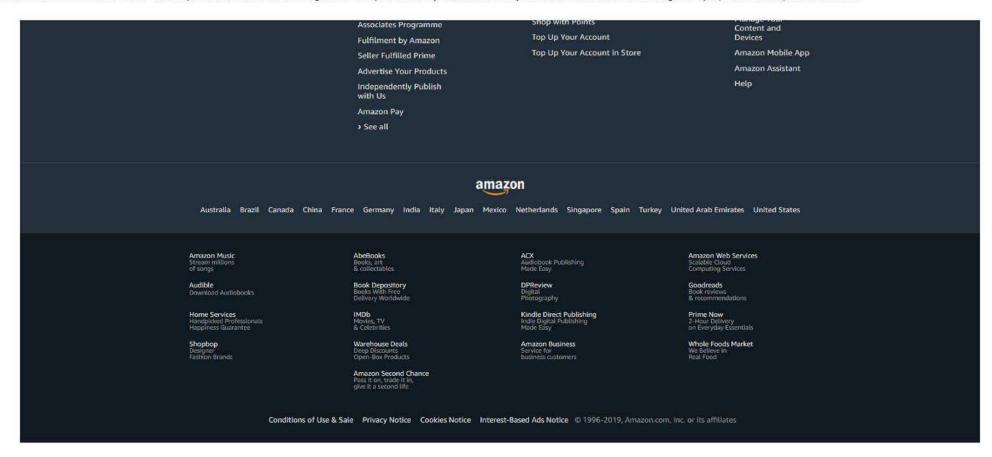


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# PHANTOM

As the aircraft spins, it disappears from vision.

The ability of U.S. ground troops to safely navigate the gauntlet of the urban battlefield has been greatly enhanced through the development of the VeraTech Aero "Phantom Sentinel" line of Virtually Invisible VTOL UAV Surveillance platforms. The Phantom Series single blade rotorcraft has the ability to deliver close up, real time video intelligence within 75 feet of nearly any event and remain virtually undetectable to the human eye.



Based on the concept of persistence of vision, the Phantom's single rotor blade has a center of rotation outside of the UAVs' physical fuselage. As the aircraft spins, it disappears from vision.

The Phantom has a uniquely minimal cross section allowing it to "slice" through even the most adverse weather conditions that would keep conventional UAV systems on the ground. The rotational inertia generated in flight allows the UAV to self level and maintain a very high degree of stability, even while hovering.

Phantom is scalable from two to ten feet in length to accommodate a wide variety of flight times and payloads. The compact size and light weight make it easy to fold, field pack, and hand launch.

# **Features**

- Near invisible surveillance for close in intelligence
- Scalable in size/range
- · Self Leveling in flight
- Several launching options
  - Throw and go
  - Canister launch
  - Drop from aircraft
  - Remote launch
- · Easily field packable/foldable
- · Adverse weather resistant
- · Limited training required
- · Electrically operated
- · RC or GPS compatible
- 360 degree spherical viewing available from high speed camera

# Characteristics

- DC electric power
- · Two to ten feet in length
- · Two to six inches in height
- Four-lb weight
- Collapsible wing allows The Phantom to easily fold into a 12 X 6 X 4 inch space



For More Information, Contact: Dean Tangren, President

VeraTech Aero Corporation 6411 Cecilia Circle Minneapolis, MN 55439

Phone (952) 941-0083

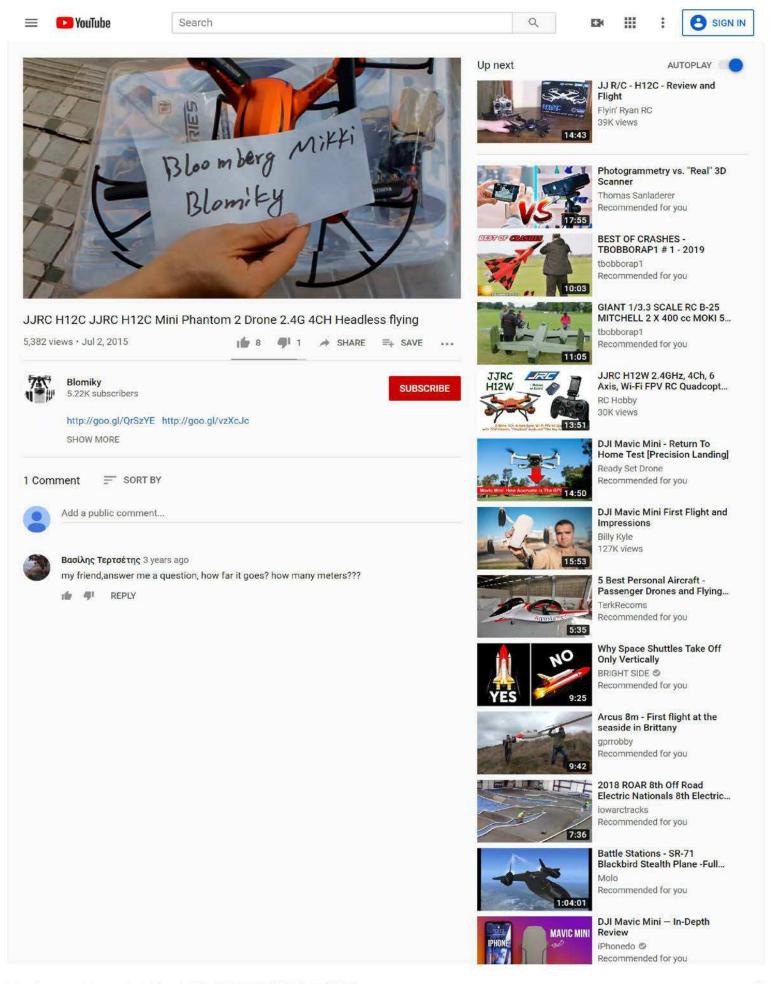
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several patents pending

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2019	2018	2016
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# MODEL OVERVIEW

Carrying on a tradition started in 1925, the Phantom is Rolls-Royce's most coulent sedan. It's also offered in coupe and convertible body styles—though not for much longer.

# History

The Rolls-Royce Phantom goes way back—we're talking way back, as far as 1925, when the Phantom replaced the "40/50 h.p." chassis, a car that was retroactively given the name Silver Ghost. The new car featured cutting-edge technologies such as overhead valves and semi-automatic spark advance, and was the first Rolls model to have its engine horsepower rated simply as "sufficient." Rolls would build six iterations of the Phantom over the next 65 years. When the Phantom I was introduced, it was a motorized chassis; Rolls-Royce wouldn't start building its own bodies until the 1949 Silver Dawn, and technically all Phantoms had bodywork made by outside coachbuilders right up until the Phantom VI was discontinued in 1990, though by that time coachbuilder Mulliner Park Ward was an in-house Rolls subsidiary.

time the company was owned by BMW and the car was largely designed in Germany. "Buckingham Palace probably hasn't been this confused since Prince Charles got married without telling his girlfriend," wrote Arthur St. Antoine in our First Drive. The new Phantom had all the elegance we expect from a Roller, but the German roots were clear: "Handling, despite a fair amount of body roll, is surprisingly good, and the brakes are reassuringly powerful," we noted. "The Phantom, for all its regal bearing and luxurious appointments, is a fun car to drive hard."

Rolls introduced a convertible version, the Drophead Coupe, for 2008, followed by a coupe for the 2009 model year. "Dismissing the DHC as a two-door ragtop version of the Phantom sedan would be a mistake," we wrote in our First Drive. "The powertrain, suspension architecture, electronic systems, and some elements of its aluminum structure are shared, but an impressive amount of work, much of it unseen, went into engineering the DHC into far more than a variant of the four-door." We noted that the Drophead Coupe was "the best machine this marque has brought forth in decades and one of the most finely crafted automobiles in the world," adding, "for what it soots, there's no excuse for it being anything but."

# The Latest Generation

Rolls-Royce announced that the eighth-generation Phantom will arrive in 2018, and that the coupe and convertible would not be replaced. To celebrate the end of production, Rolls will produce just 50 copies called Phantom Zenith, which will feature "bespoke instrument dials; a unique Spirit of Ecstasy figurine; and a 'money cannot buy' portable memento."

# Why You'd Consider One

You want to be chauffeured around in the most luxurious sedan money can buy.

# Why You'd Look Elsewhere

route looking for a luxury car triats furi to drive.

Body Types: Convertible, Coupe, Sedan

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2019 Rolls-Royce Phantom VIII Drive: Not Just a Chauffeur Car



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2019 Rolls-Royce Phantom VIII Road Trip: Yankee Rolls







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2018 Rolls-Royce Phantom First Drive Review



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2018 Rolls-Royce Set to Make U.S. Debut at Detroit's The Gallery



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Rolls-Royce Ghost



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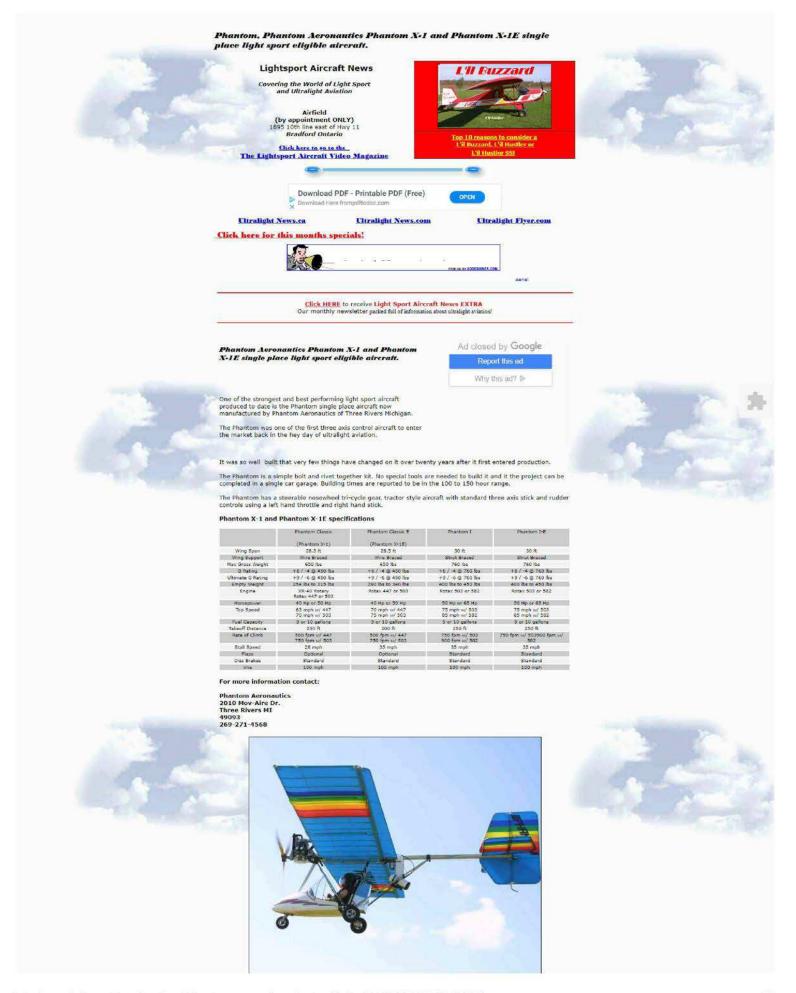


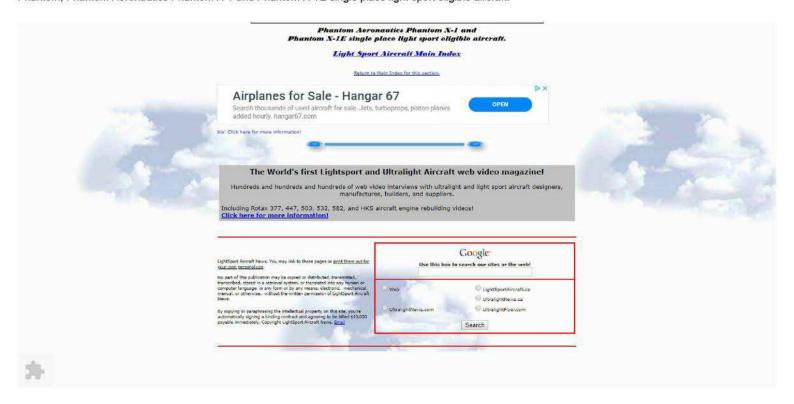
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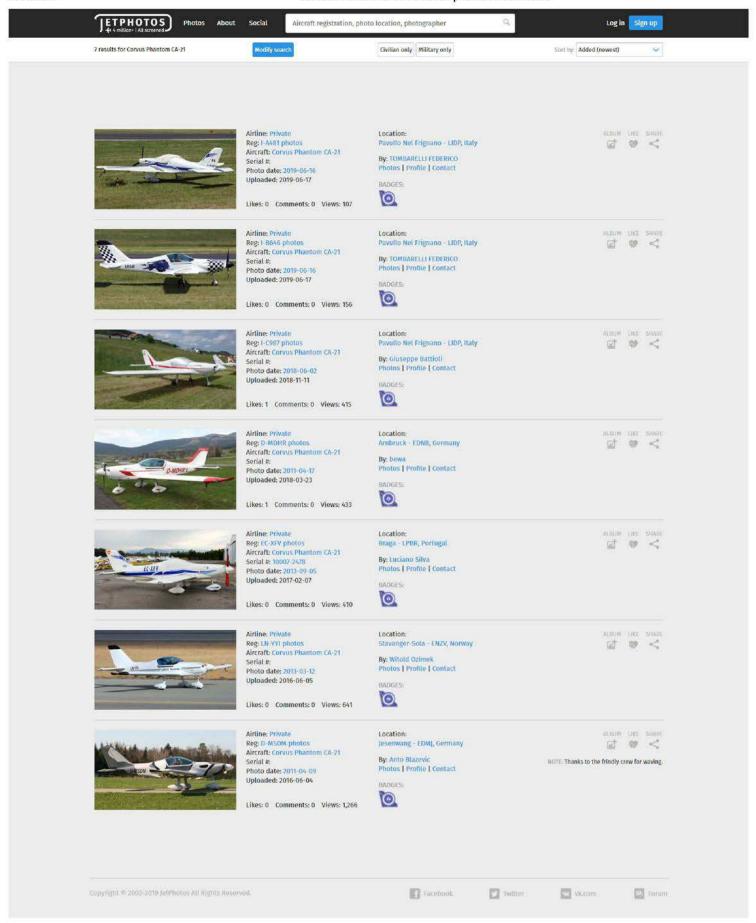
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Q Tony Sparks



# **Tony Sparks**

**Phantom Air** 

Owner and President of Phantom Services, Phantom Aviation, and Founder of Phantom

Rescue

Pompano Beach, Florida · 500+ connections

**Join to Connect** 

# Experience



### Owner / Founder

Phantom Air

Aug 2017 - Present · 2 years 4 months

South Florida



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**Tony Sparks** 



Phantom Rescue Anti-Human Sex Trafficking Foundation

2007 - Present · 12 years

South Florida

Phantom Rescue is a 911 Force that deploys globally to recover abducted children that have been taken for Human Sex Trafficking, and we work to impede the underground industry that enables it. Phantom Rescue is a 501c3 Non-Profit Organization. Visit us at www.PhantomRescue.Org

Phantom Rescue's Operational Expertise comes from its Team's specialized experience of Former U.S. Military's Special Operations, Law Enforcement, U.S. State Department, Cyber Task Force, Internet Crimes against...

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### Owner / Founder

Phantom Services Security Concierge Services

2005 - Present · 14 years

Phantom Services is a security concierge services company providing tailored solutions through our unique and discreet Security Programs. Our services reach globally and focus in three key areas: Industrial Security, Executive Security, and Maritime Security.

Industrial Security: Threat Reduction & Consequence Management. Our industrial security solutions include our core task of vulnerability and threat assessments, risk mitigation, and on-site security training, evaluations, and...

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### Tony Sparks

5700 N. Harbor City BLVD, Melbourne, 32940

Director Program Operations JUN 2013 to Present

- Responsible for Program Estimate to Complete (EAC) Financials for \$500M annual revenue Aviation Services Contract with Department of State International Narcotics and Law Enforcement
- Provides direct oversight for 24/7 Operational Support Center to all OCONUS locations for Logistics, Maintenance, QC, Administrative, and Flight Following
- Ensures contract requirements are met or exceeded for current and future operations,...

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### Senior Manager Fusion and Planning Cell

Sep 2012 - May 2013 · 9 months

5700 N. Harbor City BLVD, Melbourne, 32940

Senior Manager Fusion and Planning Cell SEP 2012 to MAY 2013

- Selected to Lead HQ Crisis and Contingency Operations, Future Planning, and Program Build up/Closeout Operations while continuing oversight of Current Operations worldwide.
- Provided strategic leadership for Afghanistan (Aviation and Construction) expansion while continuing to maintain strategic oversight of Iraq operations and continued expansion
- Managed personnel life cycle, aviation and non-aviation...



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## **Tony Sparks**

Jun 2009 – Aug 2012 · 3 years 3 months

Baghdad, Iraq

Country Multi-site Manager Baghdad, Iraq JUN 2009 to AUG 2012

- Developed, implemented and executed plan to remove incumbent contractor, Blackwater, from Iraq and transition to DynCorp International.
- Developed and implemented follow-on Aviation Infrastructure within DoS INL/A Iraq Program across five geographically detached locations
- Managed infrastructure rebuild that consisted of Construction Efforts to build three Airfields and four Air Hubs throughout Iraq and...

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### Retired

Military

May 1980 - Apr 2005 · 25 years

Tony Sparks spent 25 years in the United States Army with most of his career assigned to Special Operations Units. He attended the Army's Aviation Flight Training program and became an Attack helicopter pilot. He spent the next 15 years assigned to Army Aviation with Nine of those years in Special Operations Aviation and retired while assigned to United States Special Operations Command. His formal education consists of a Bachelor of Science in Business and Masters in Aerospace Engineering...

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**EVP of Marketing - BettermentRS** 

Des Moines, Iowa Area



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Chief Financial Officer at Dreamscape Networks Limited

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Owner and President of Phantom Services, Phantom Aviation, and Founder of Phantom Rescue



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## Phantom HALR

Gain: 1.0, Max size: 40' x 90'



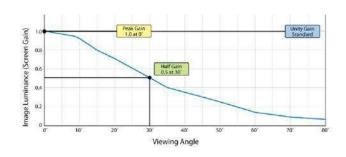
## A stunning solution for high ambient light environments

Phantom HALR is a flexible, front projection, high ambient light rejection screen material that offers excellent ambient light rejecting capabilities from every angle. Unlike other manufacturers' offerings, Phantom HALR is available in any image size up to 40 by 90 feet - completely seamless. It is the only black screen on the market that can be perforated for acoustical transparency, including Stewart's exclusive MicroPerf X2 THX Ultra or CinemaPerf options. For installation versatility, Phantom HALR can be configured with any of Stewart's ElectriScreen or fixed frame models. Phantom HALR is not susceptible to color shift and will calibrate out to REC 2020 or REC 709 without obvious color aberrations that skew the primary and secondary colors. A stunning solution, Phantom HALR will provide excellent image uniformity and fidelity in any high ambient light application. An exceptional viewing experience, day or night.

Download Spec Sheet

### Specs

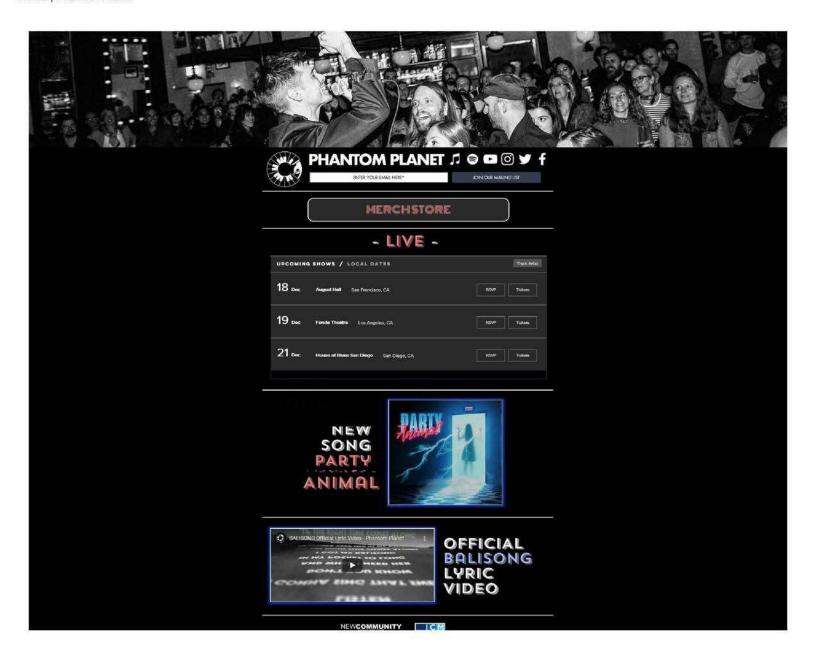
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Peak Gain	1.0
Half Gain	30°
Ambient Light Rejection	82%
Value	
Ambient Light Resistance	Excellent
Minimum Throw Distance	1.8 x Image Width
Edge Blending Properties	N/A
Passive 3D use	No
Lay Flat Quality	Excellent

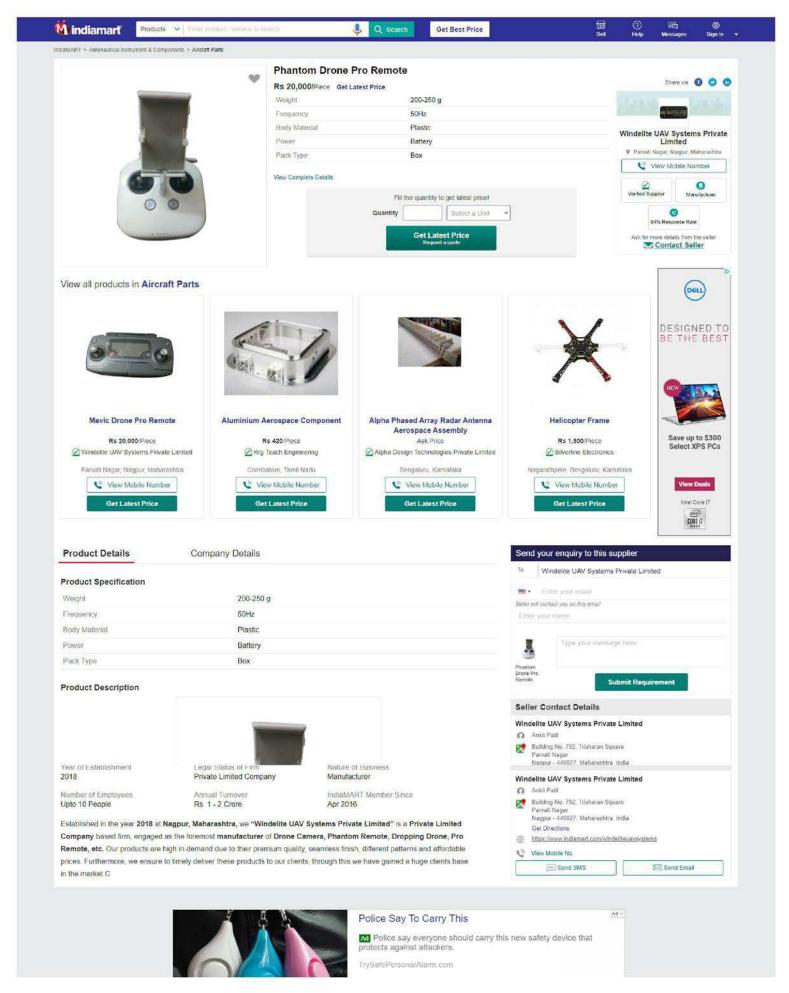


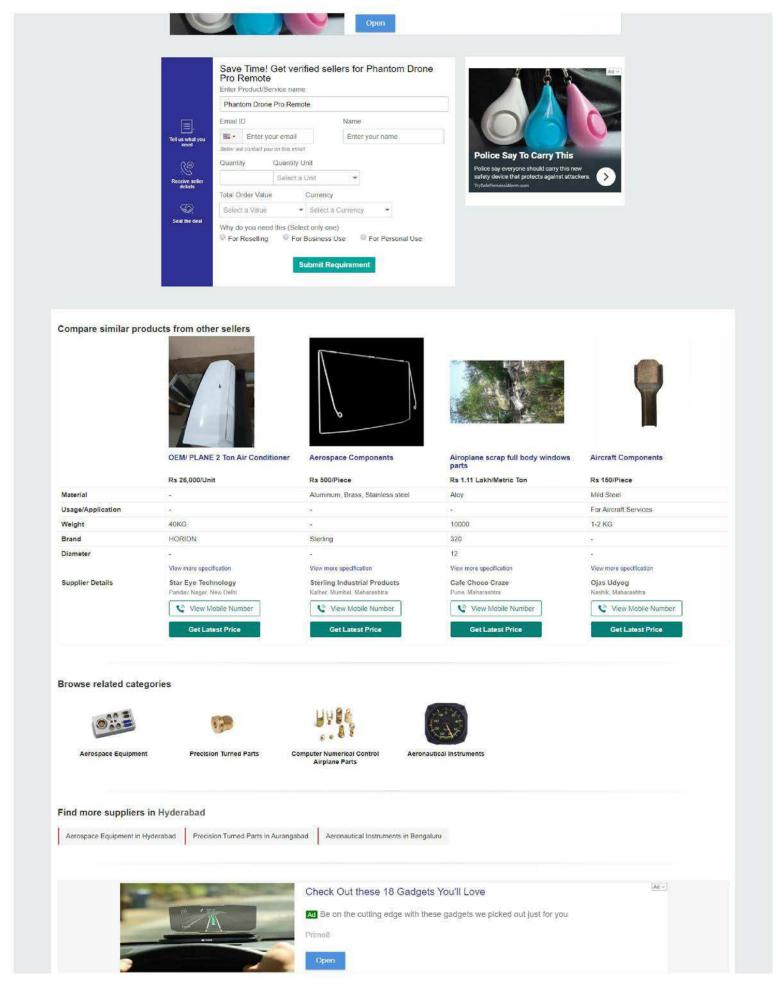
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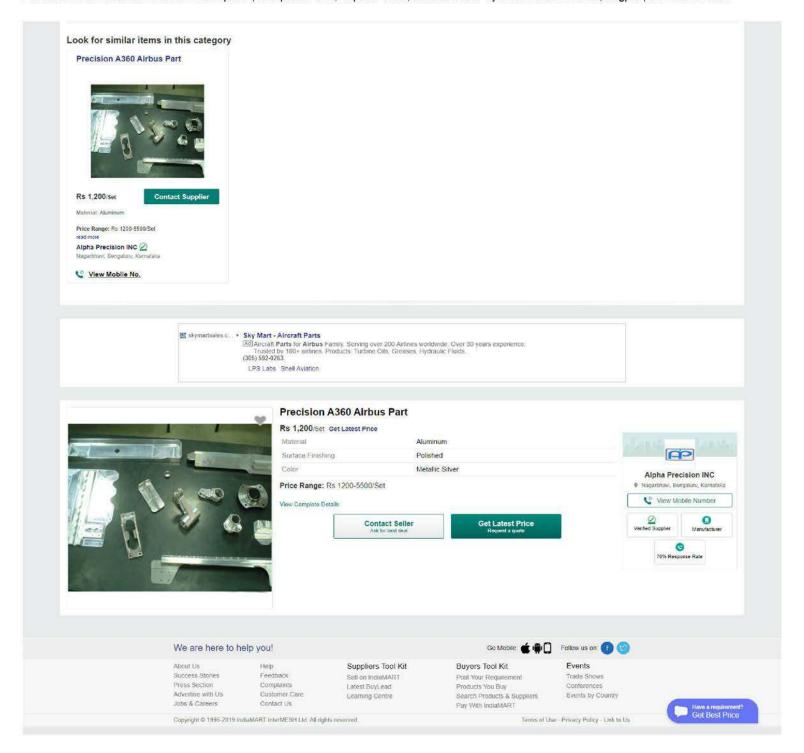
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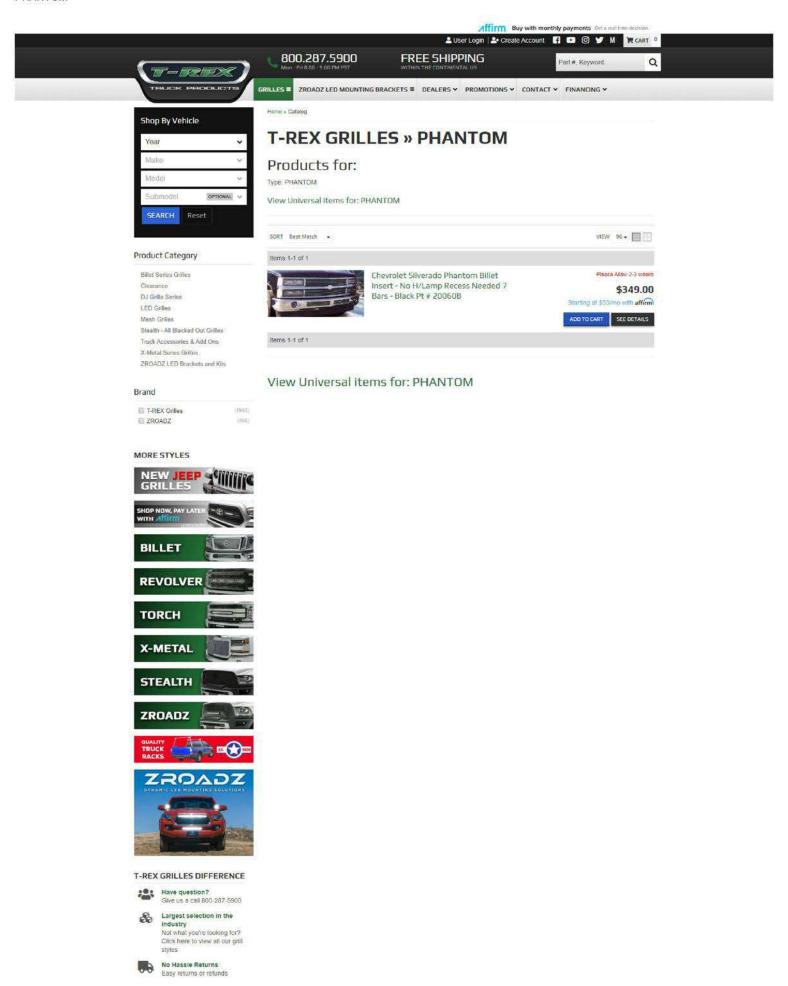
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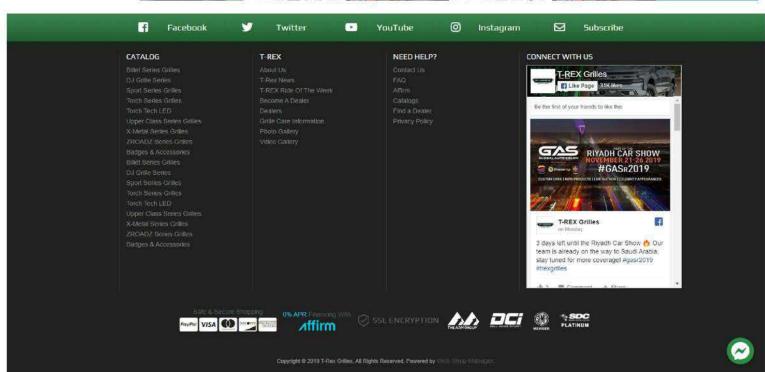


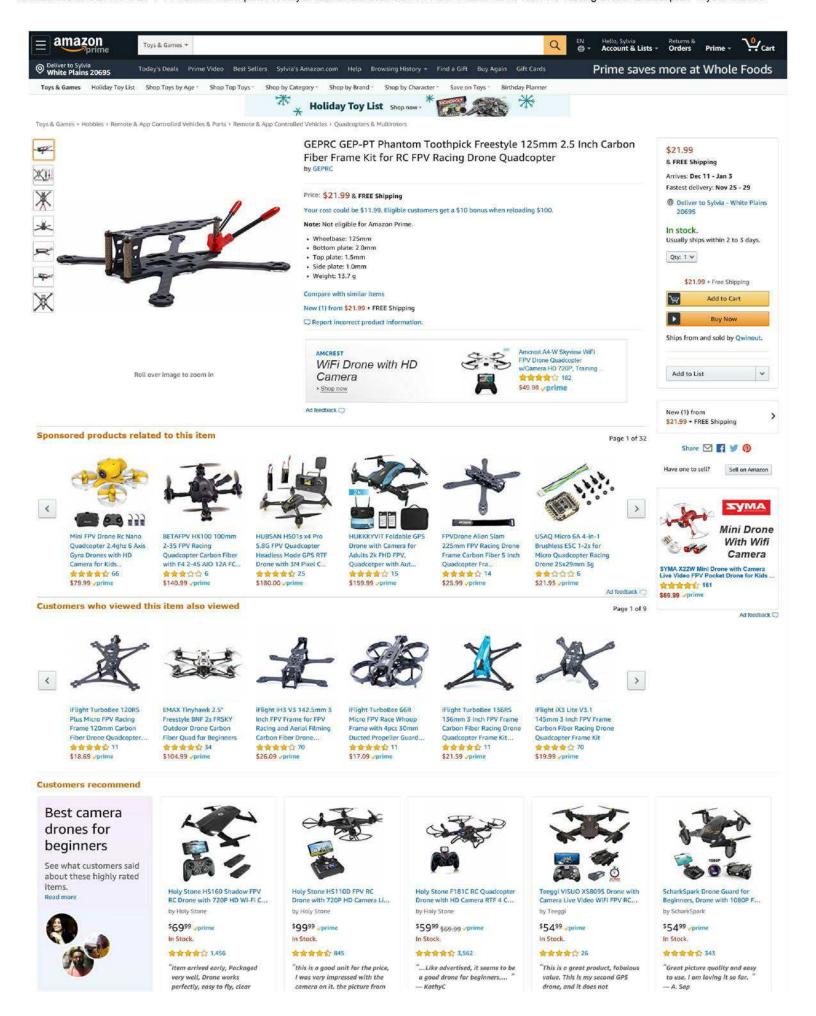














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#### **Product description**

Brand name: GEPRC

Item name: GEP-PT PHANTOM Toothpick Freestyle Frame Kit

Wheelbase: 125mm Bottom plate: 2.0mm

Top plate: 1.5mm Side plate: 1.0mm

Maximum support blade: 2,5inch

Weight: 13.7 g

#### Recommend Part(Not included):

Geprc 20x20mm Stable Flytower Omnibus F4 Flight Controller & 12A BL\_S ESC & 48CH 25/100/200mW VTX

Gemfan 65mm 3-blade Propeller

Camera:Caddx EOS2

### Included:

- 1 x 2.0mm Bottom plate
- 1 x 1.5mm top plate
- 2 x 1.0mm side plate
- 1 x Lipo silicone pad
- 3 x M2\*20mm Aluminum alloy standoff Titanium color
- 6 x M2\*5mm Round head screw
- 1 x XT30 The power cord
- 1 x Battery non slip pad
- 1 x EVA Shock absorption
- 6 x Shock absorption circle
- 1 x 3D printing
- 1 x 2x100mm Antenna fixed tube
- 2 x Battery magic tape

#### Package includes:

GEPRC GEP-PT Carbon Fiber Frame x1

#### **Product information**

Shipping Information	View shipping rates and policies
ASIN	B07XXX5PY5
Manufacturer recommended age	14 years and up
Best Sellers Rank	#693,409 in Toys & Games (See Top 100 in Toys & Games) #4,282 in Hobby RC Quadcopters & Multirotors

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Product Warranty: For warranty information about this product, please click here

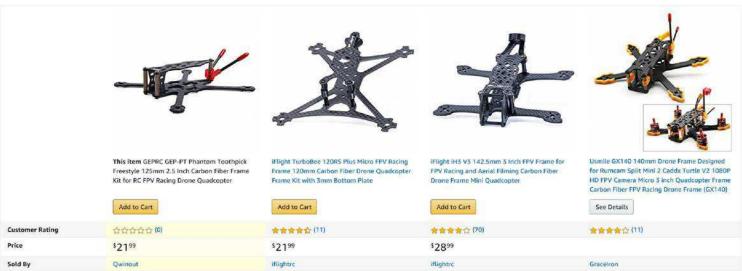
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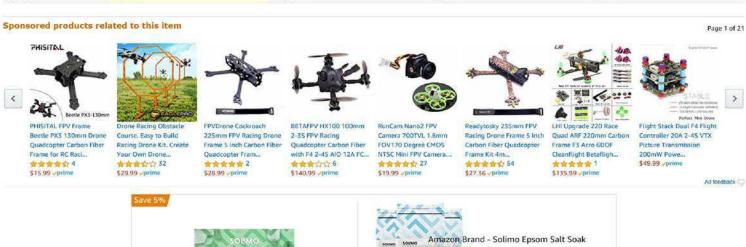
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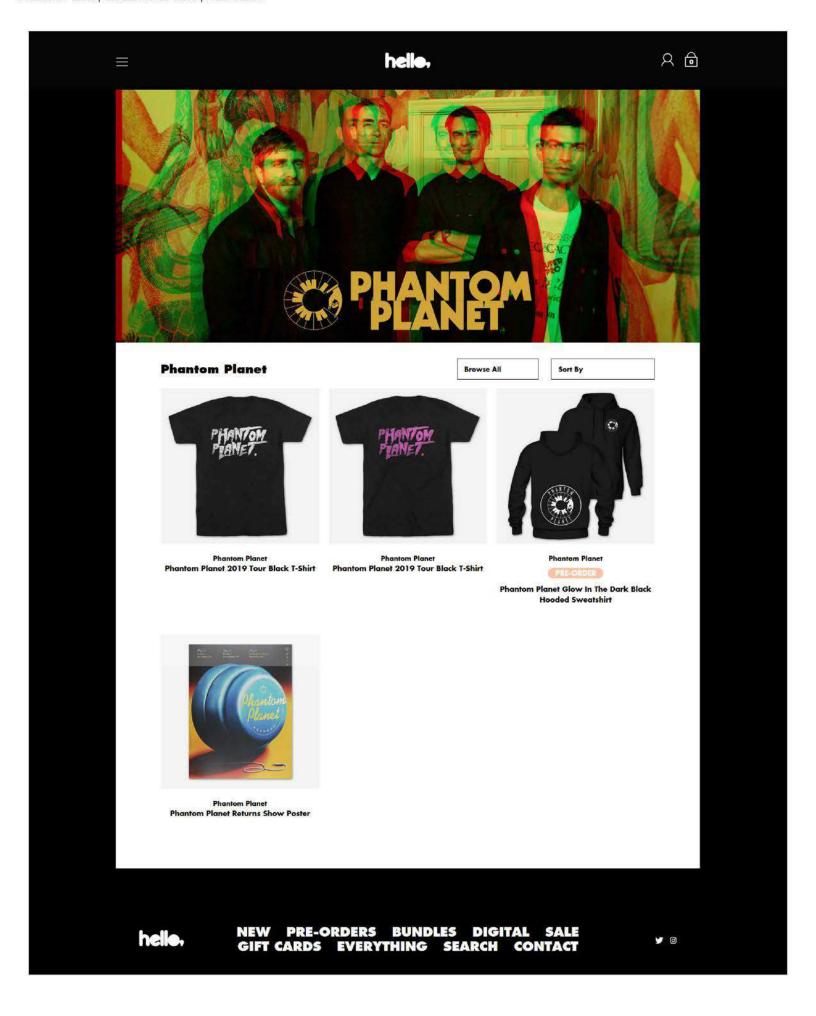
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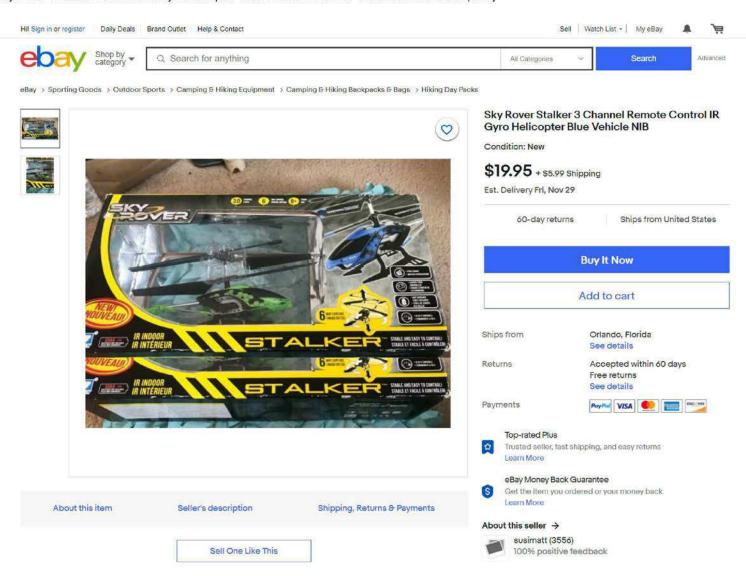
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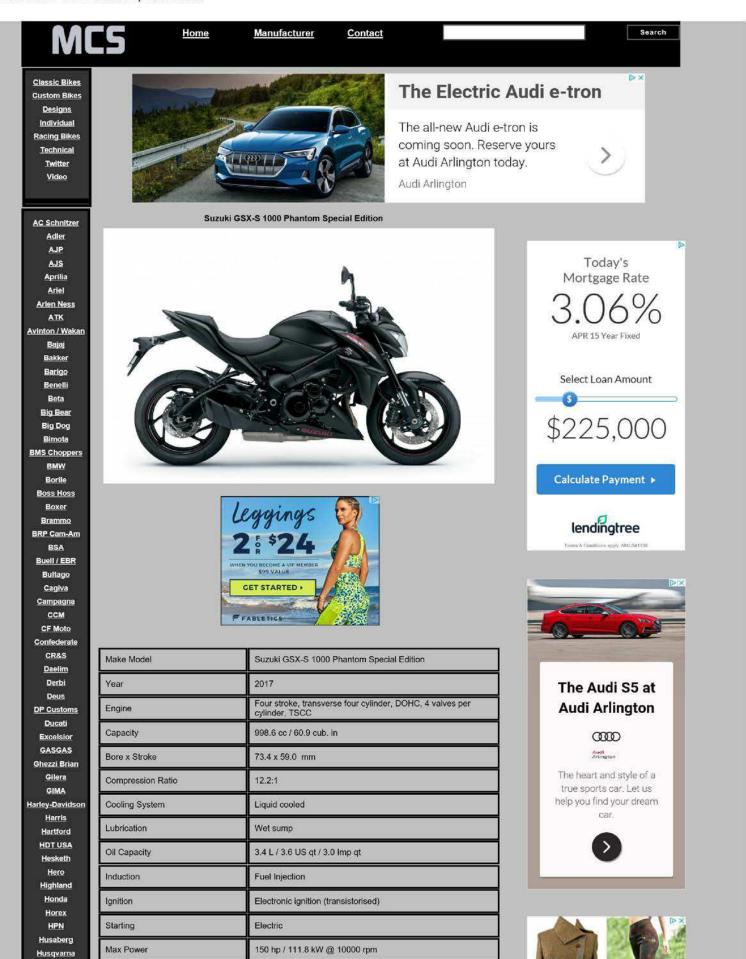
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108 Nm / 79.6 lb-ft @ 9500 rpm

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Clutch	Hydraulically-actuated multiplate wet clutch	
Transmission	6 Speed, constant mesh	
Final Drive	Chain, DID50VAZ, 114 links	
Primary Reduction Ratio	1.553 (73/47)	
Final Reduction Ratio	2.588 ( 44/17)	
Frame	Aluminium, twin spar	
Front Suspension	Inverted telescopic, coil spring, oil damped	
Front Wheel Travel	120 mm / 4.7 in	
Rear Suspension	Link type, coil spring, oil damped	
Rear Wheel Travel	130 mm / 5.1 in	
Front Brakes	2 x 310mm Brembo discs, 4 piston Brembo calipers / ABS	
Rear Brakes	Single 220 mm disc / ABS	
Front Tyre	120/70ZR17M/C (58W) tubeless	
Rear Tyre	190/50ZR17M/C (73W) tubeless	
Rake	25.0°	
Trail	100 mm / 3.9 in	
Dimensions	Length 2115 mm / 83, 2 in Width 795 mm / 31,2 in Height 1180 mm / 46,5 in	
Wheelbase	1460 mm / 57.5 in	
Seat Height	810 mm / 31.9 in	
Ground clearance	140 mm / 5.5 in.	
Wet Weight	207 kg / 456.4 lbs - ABS 209 kg / 460.8 lbs	
Fuel Capacity	17 Litres / 4.4 US gal / 3.7 Imp gal	

The 2017 Suzuki GSX-S1000 and GSX-S1000F Get More Power And Slipper Clutch. The power has increased from 140hp to 150hp, while torque is up to 79.6ftlb at 9,500rpm. Suzuki say this increase in power is thanks to new crankcase ventilation holes.

Another great new feature is the addition of a slipper clutch that allows for smoother downshifts and prevents the rear wheel from locking up during such maneuvers.

Visually, the two models are almost identical to the previous version. However, both the GSX-S1000 and GSX-S1000F got blacked-out levers and foot controls. The faired version also benefits from a slightly more tinted windscreen.



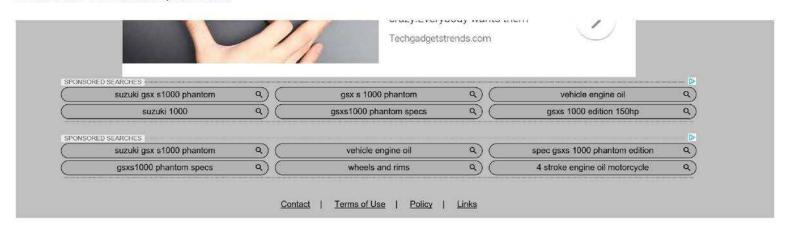
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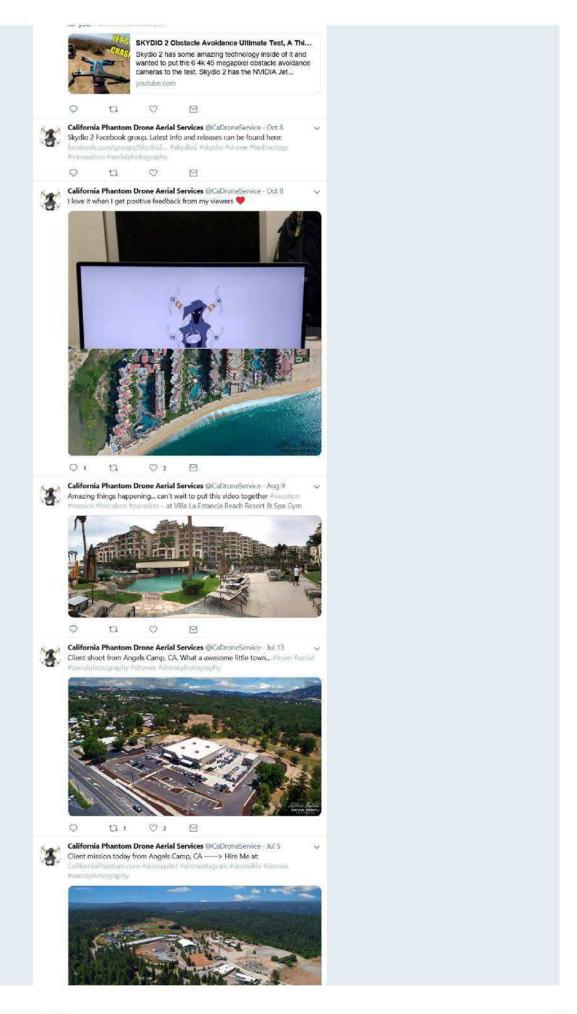


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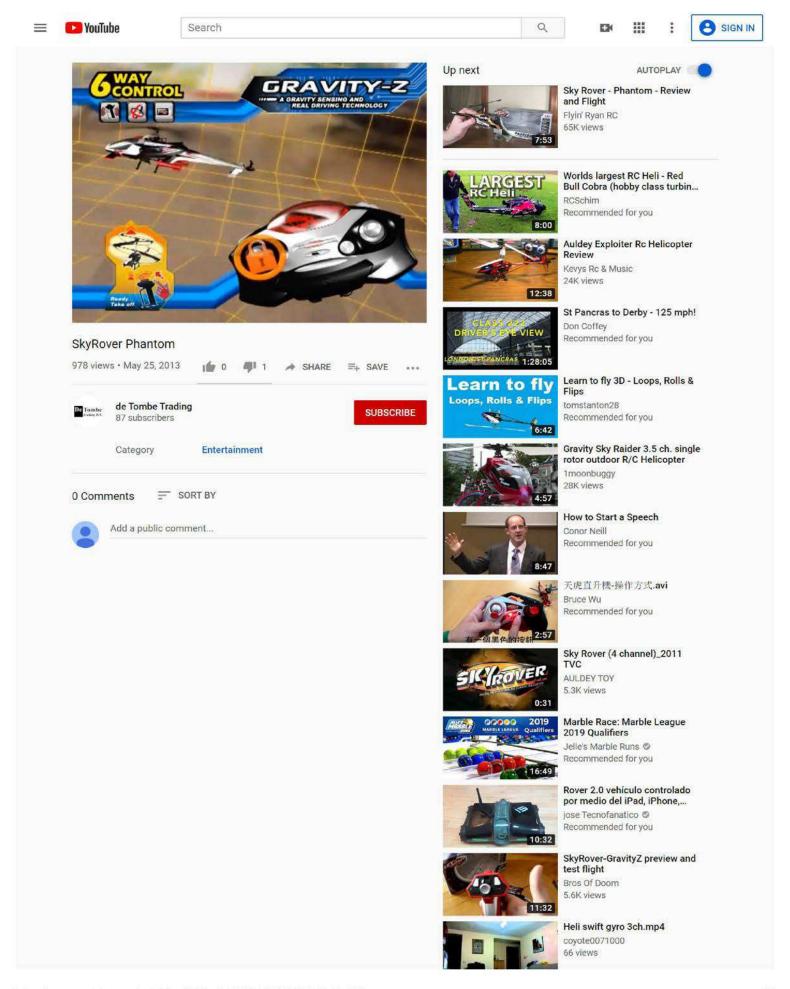
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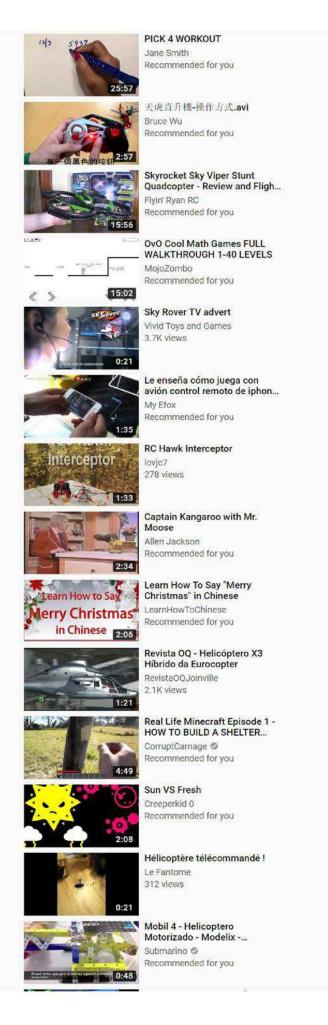
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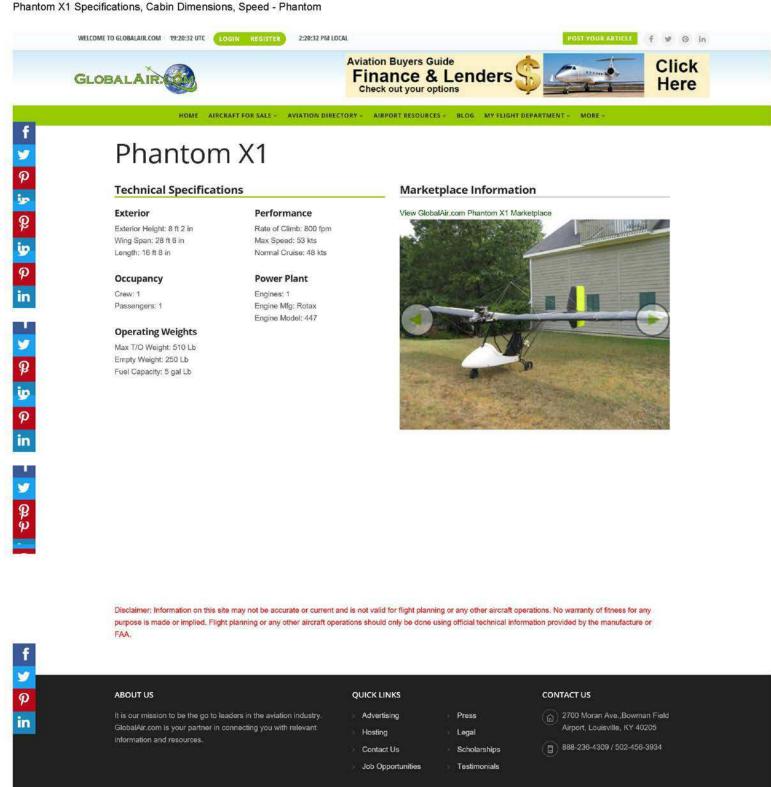




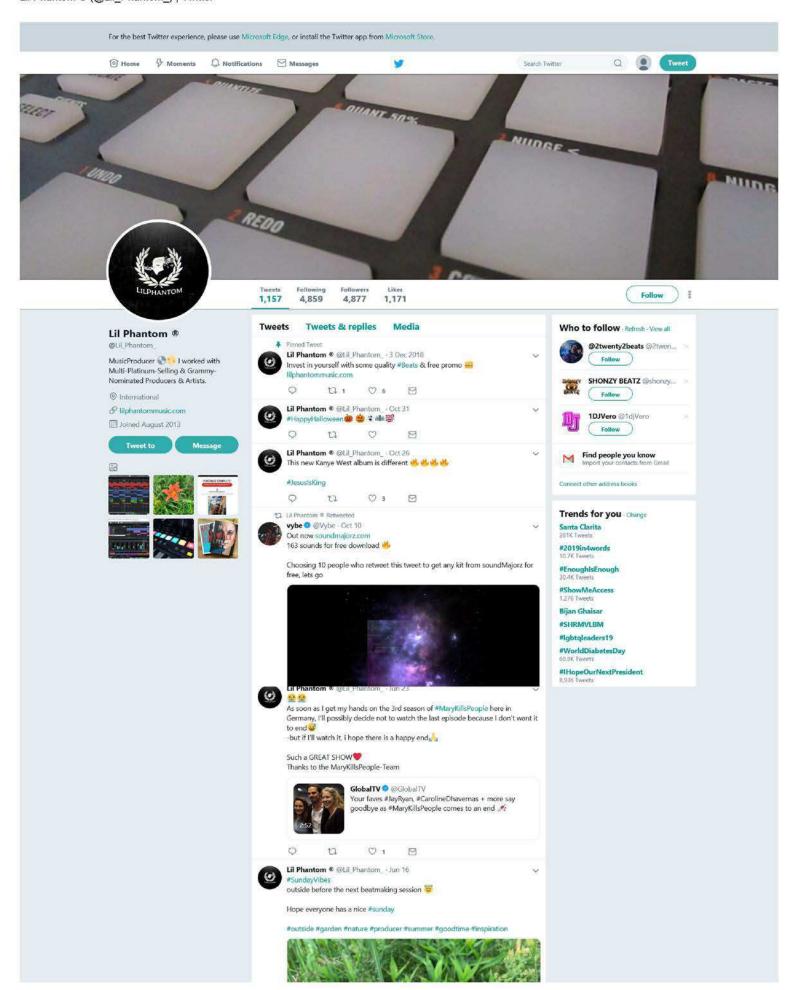
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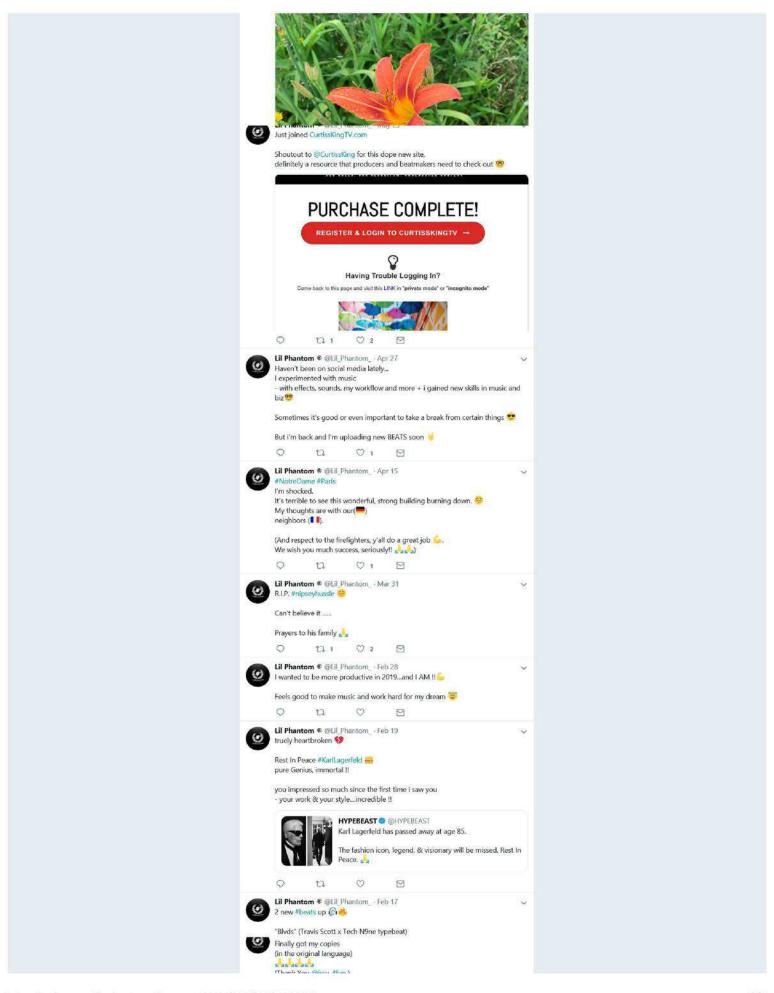


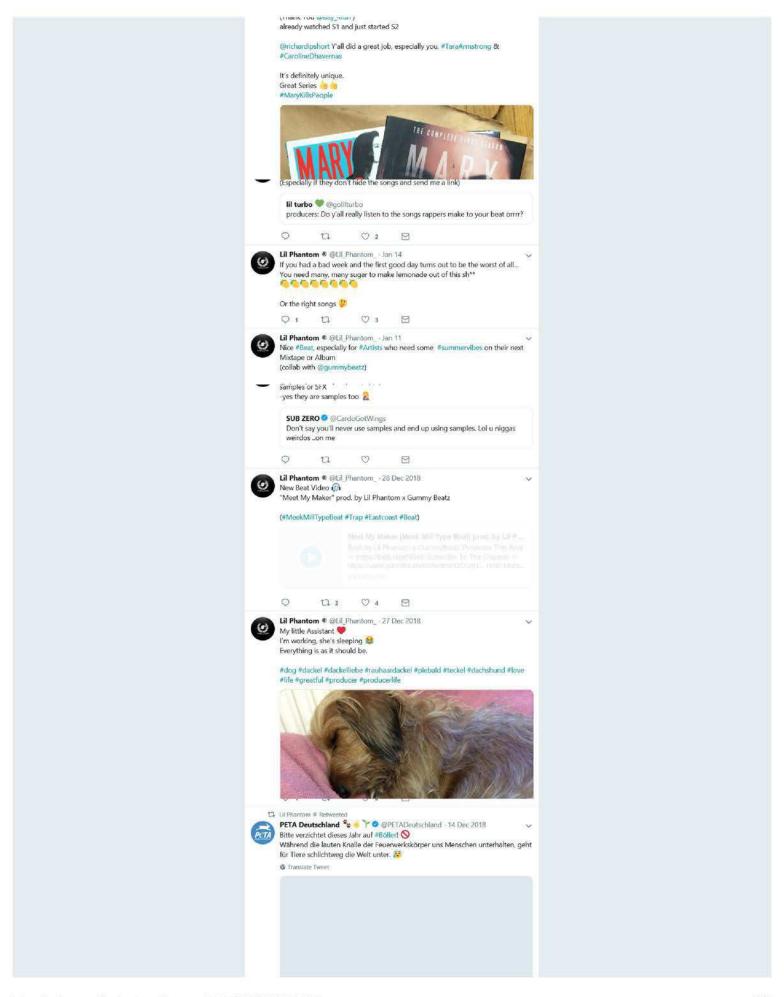
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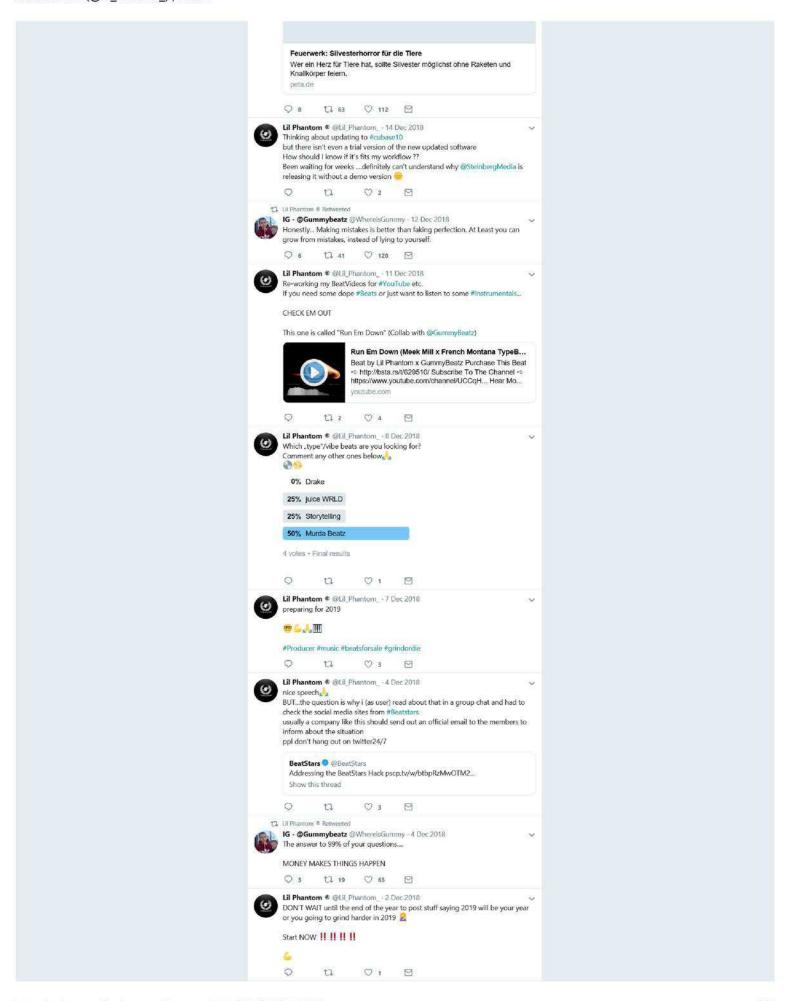


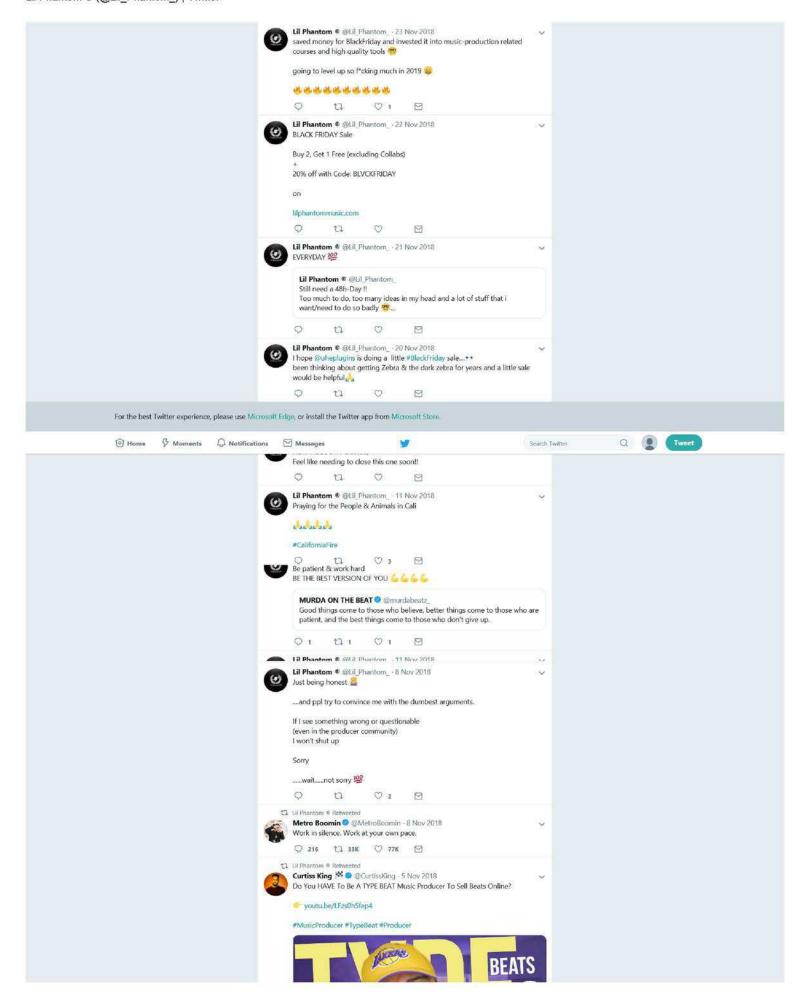
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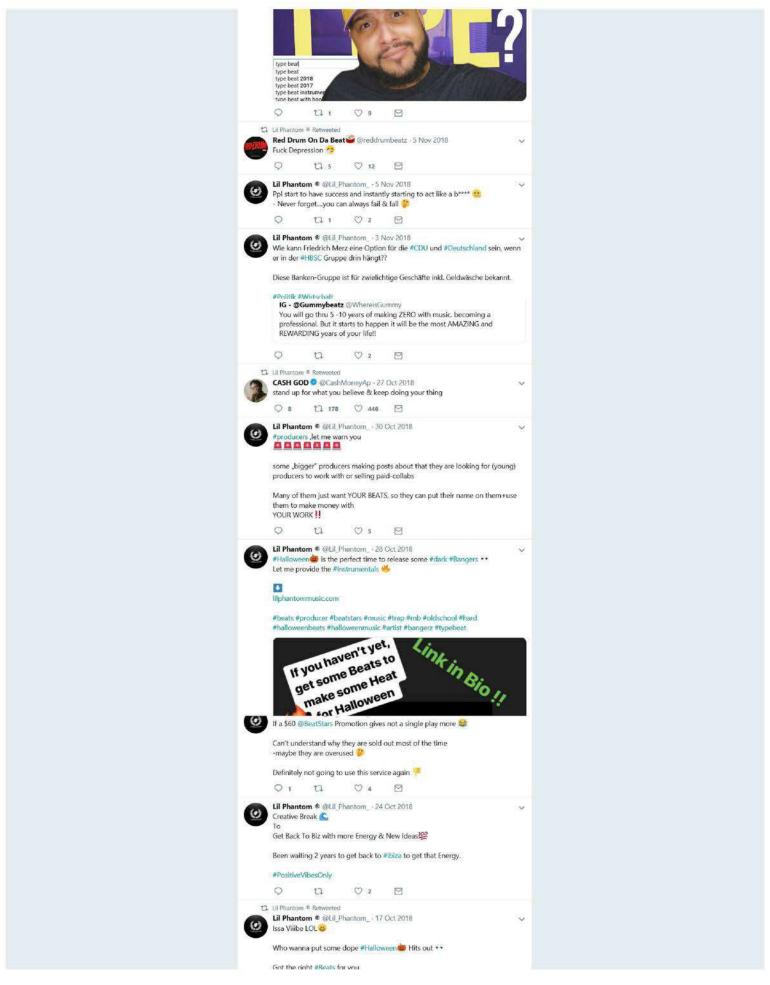


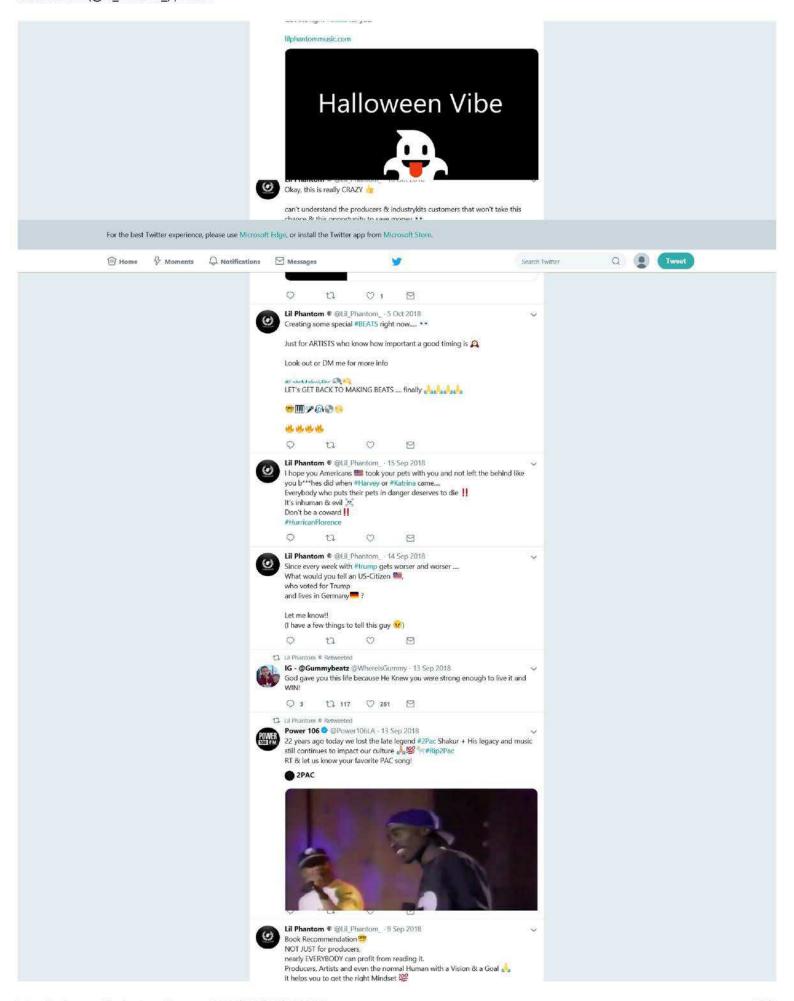


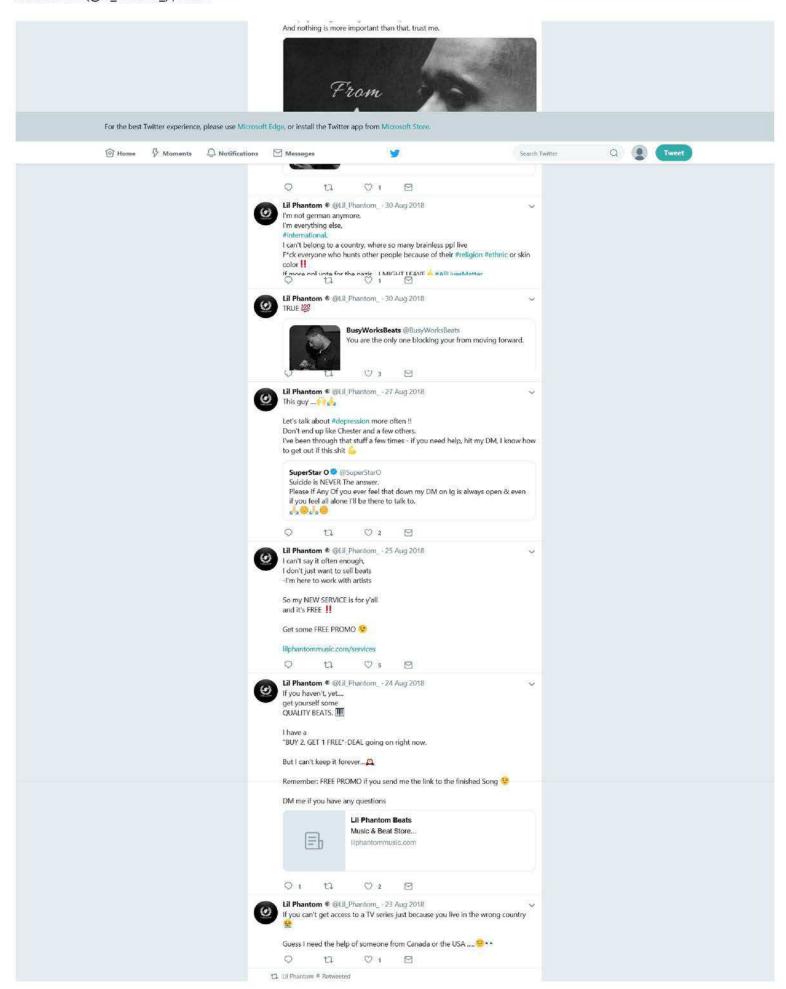


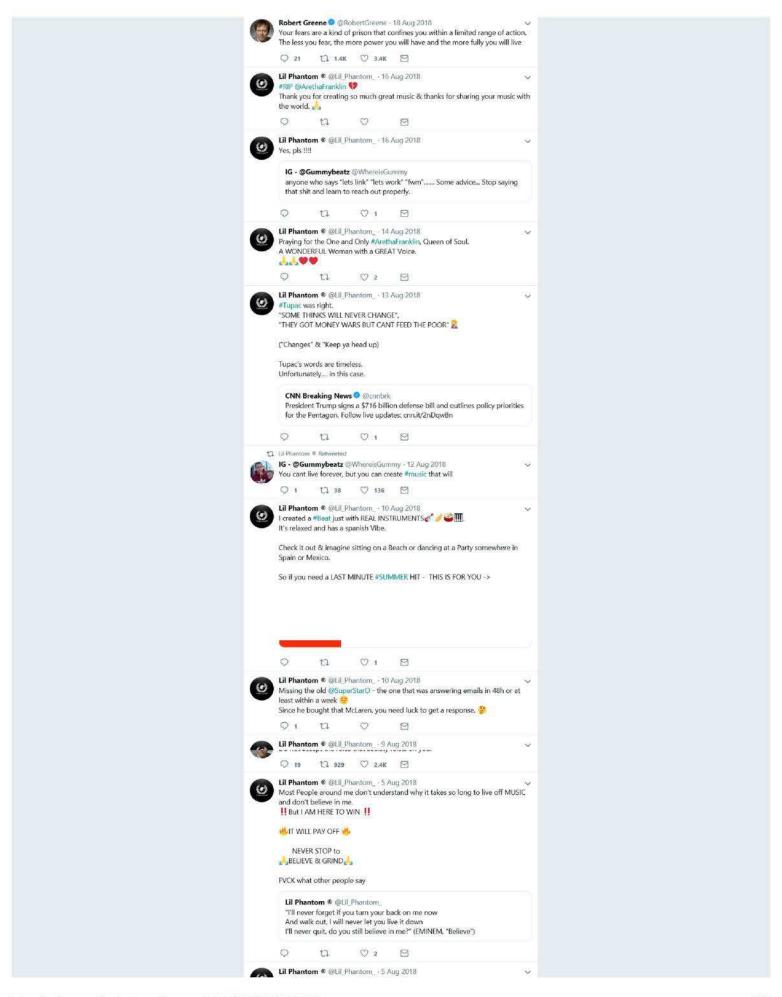


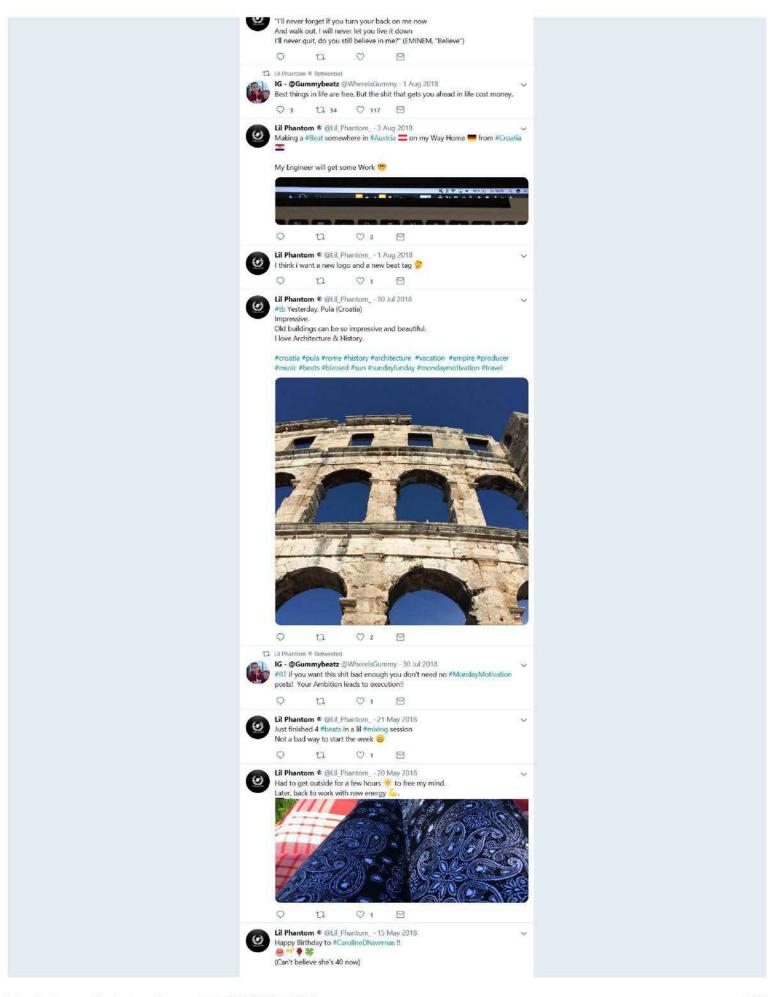


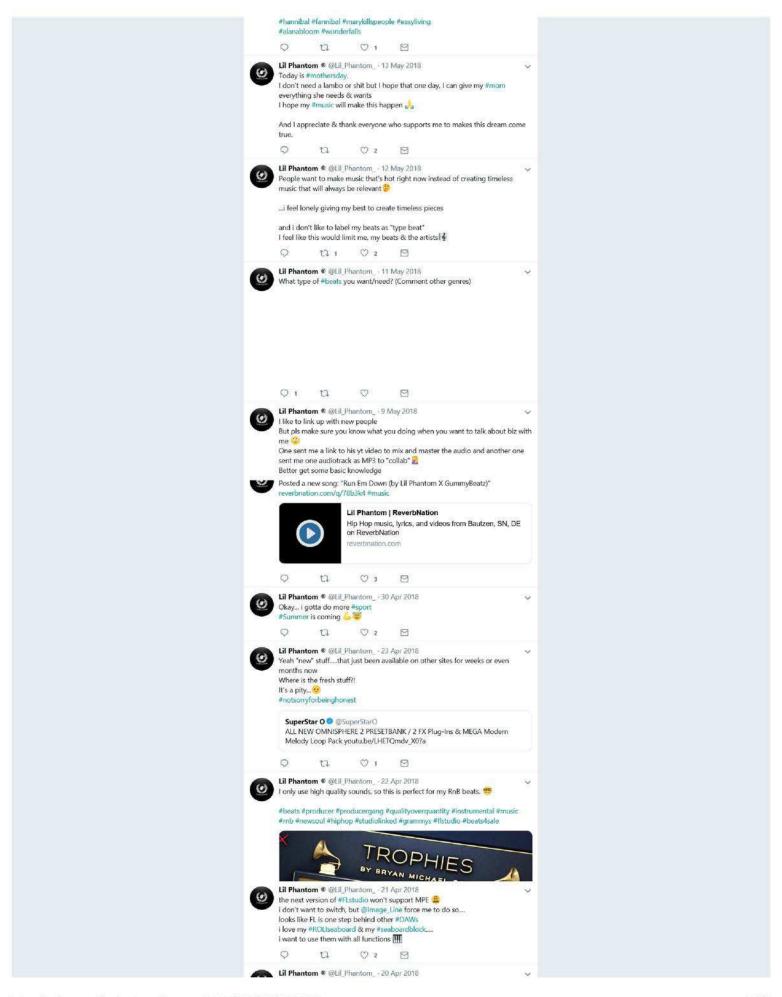


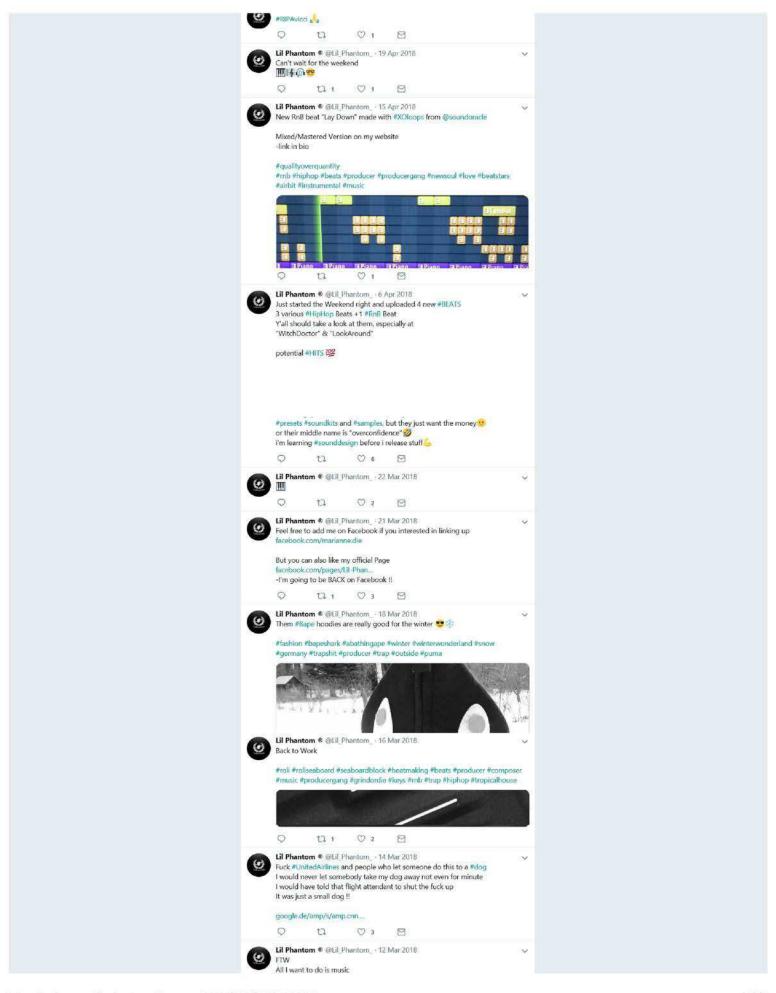


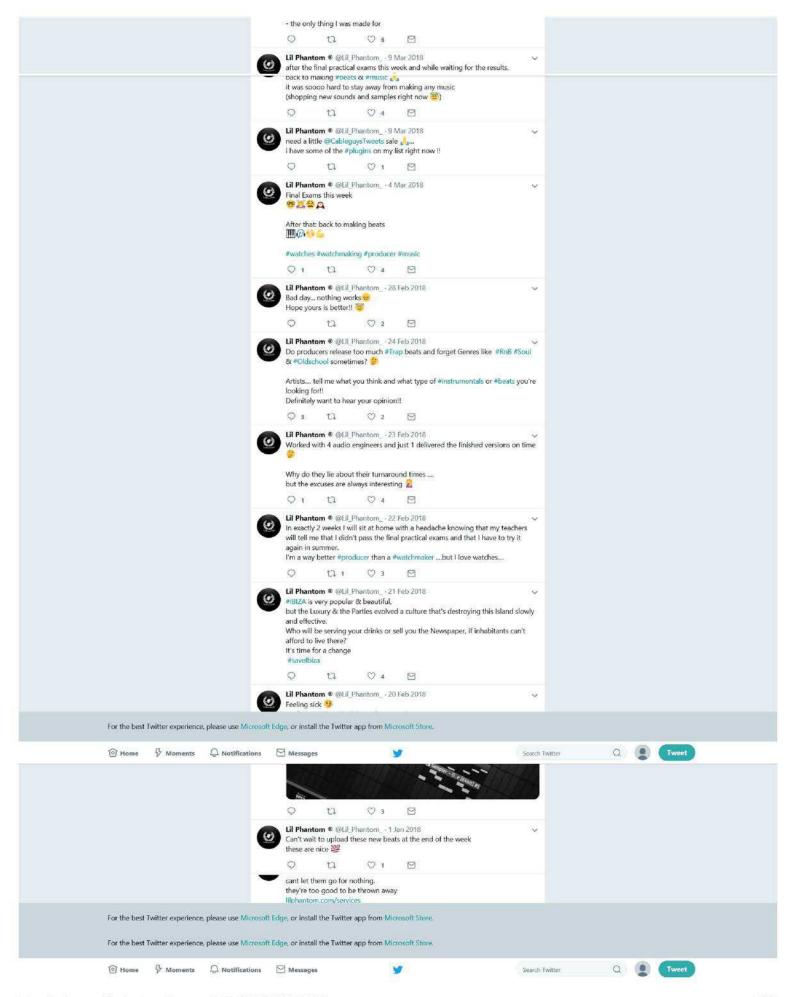


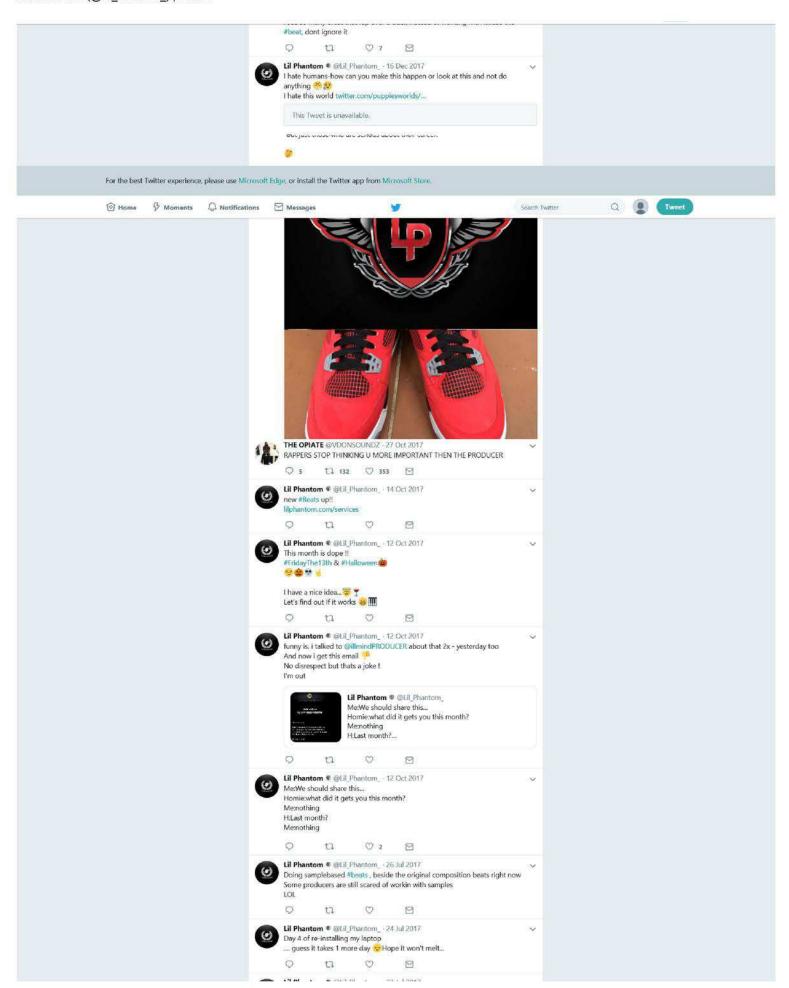


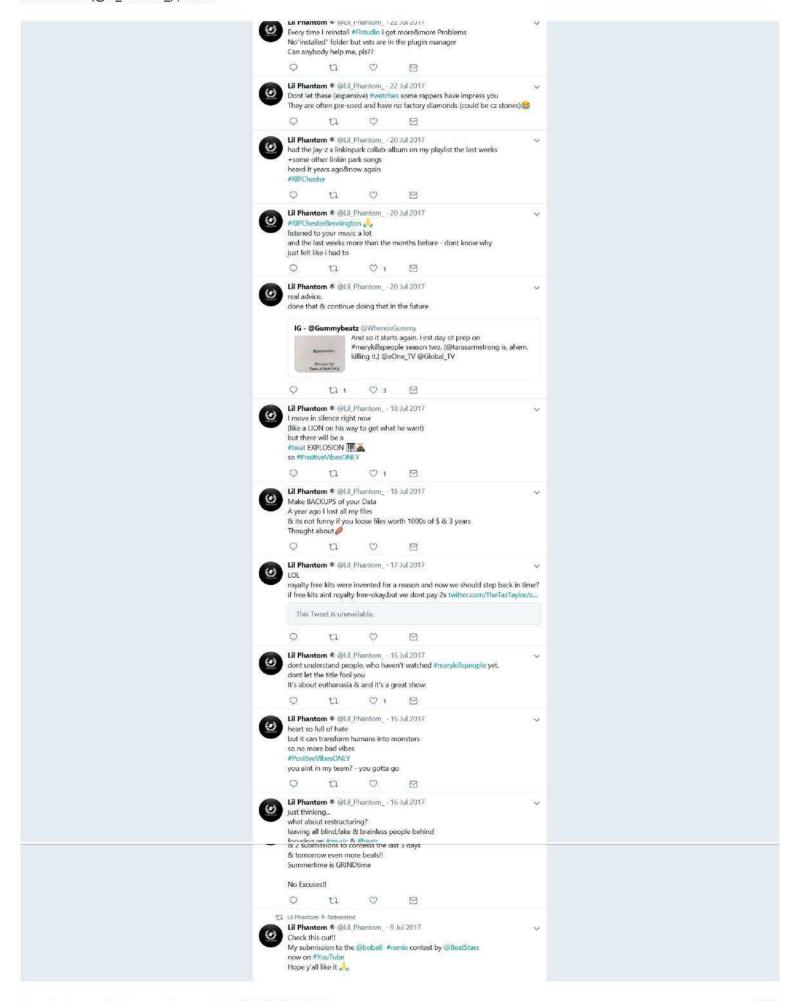


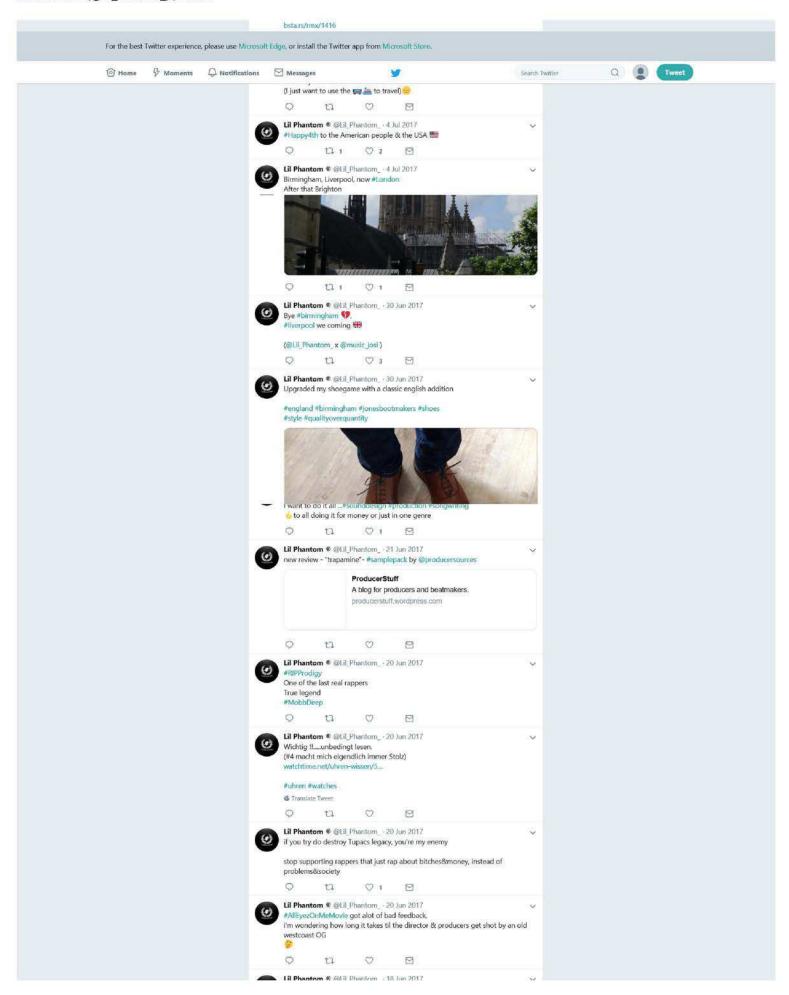


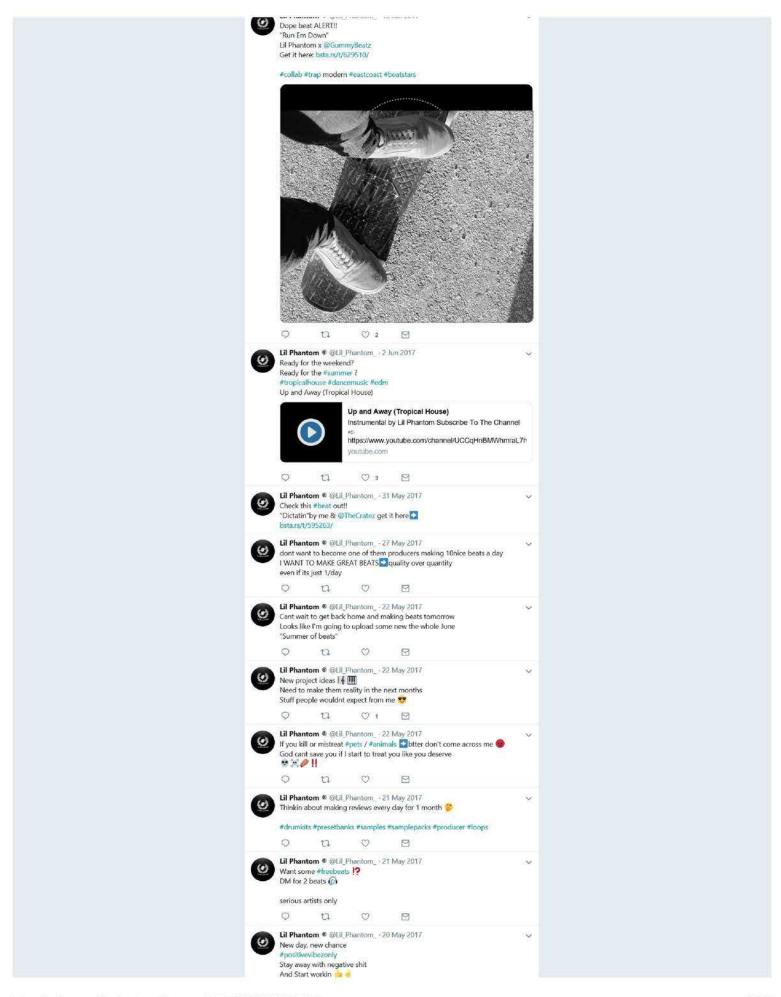


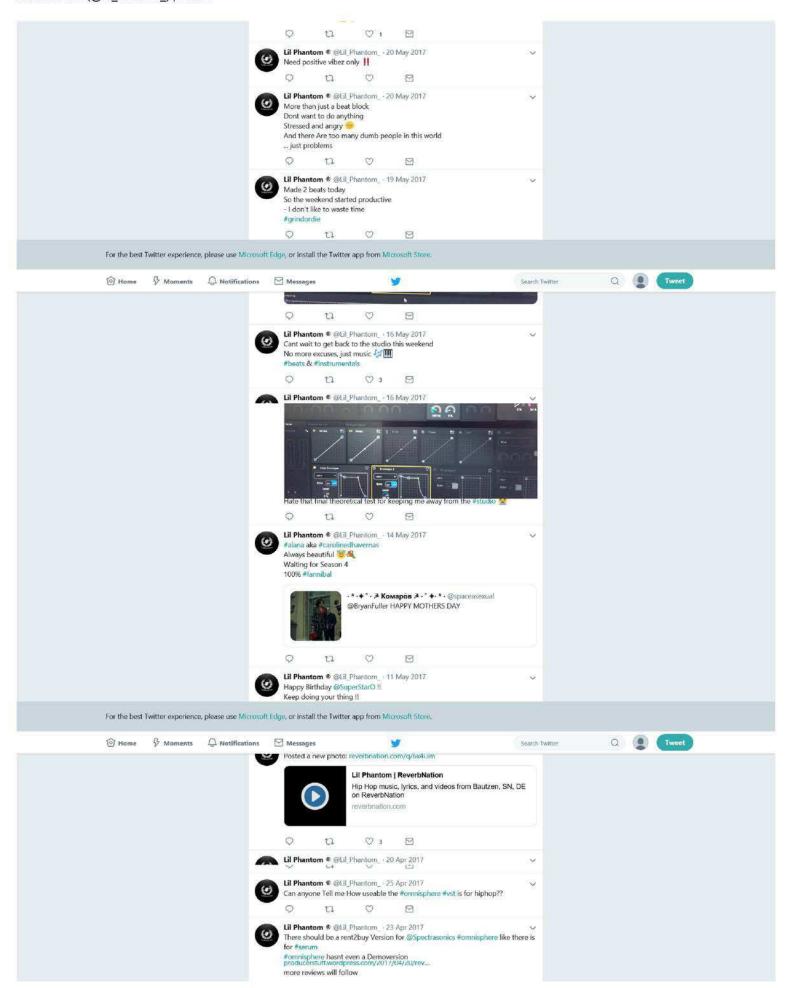


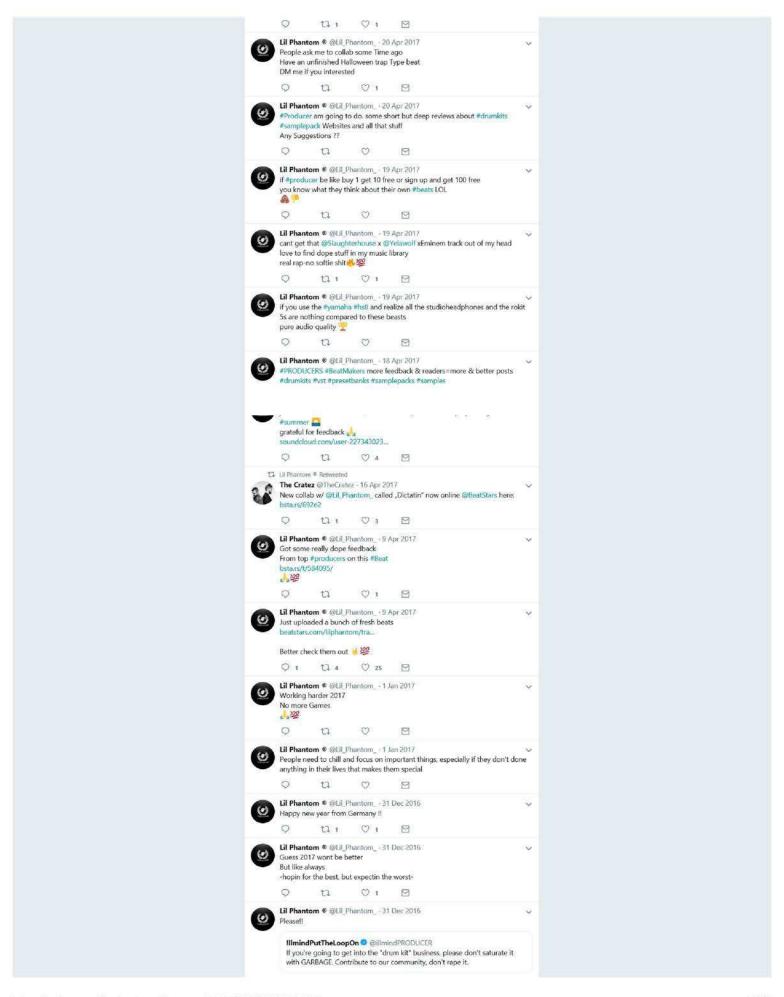


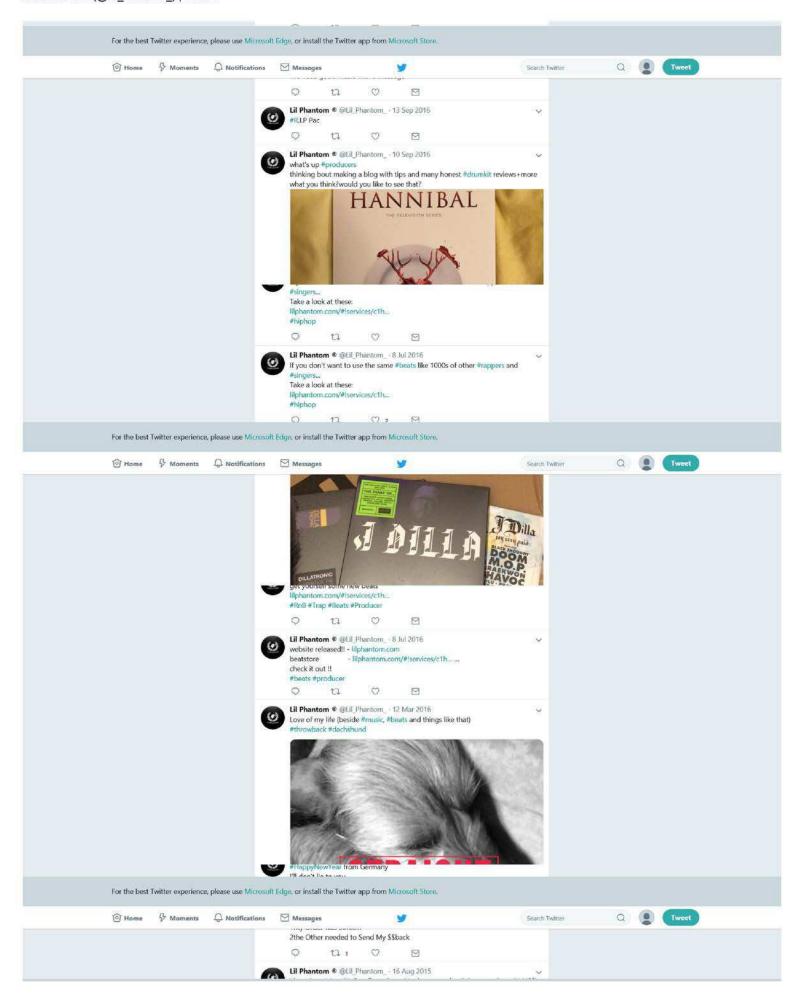


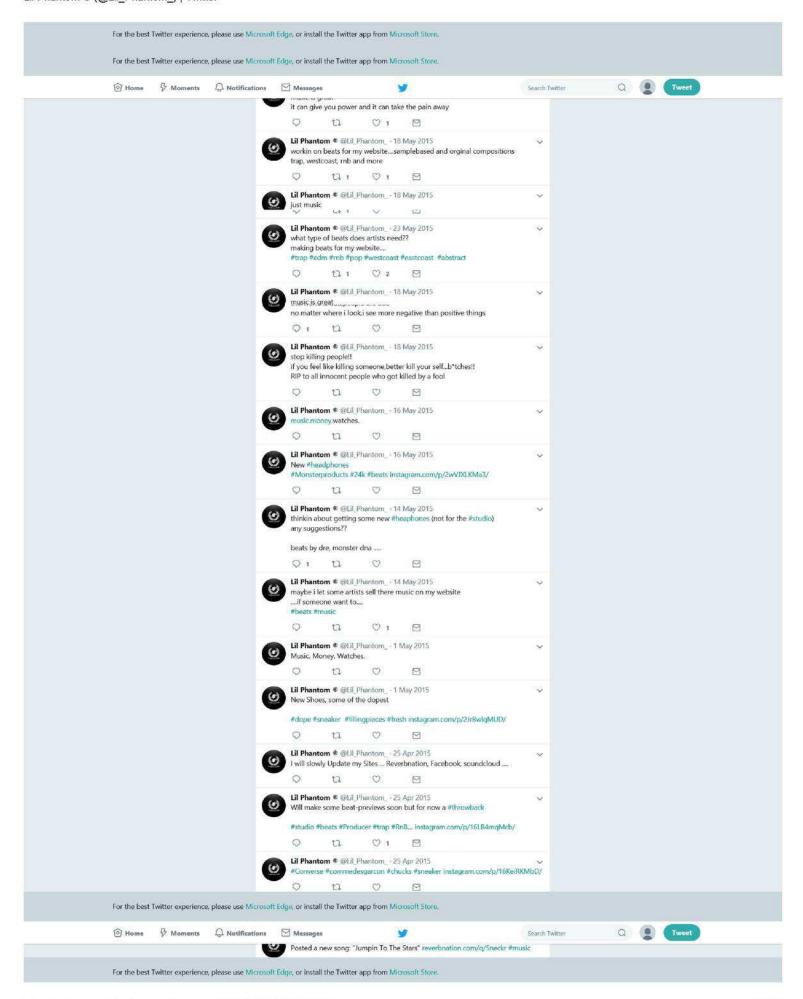


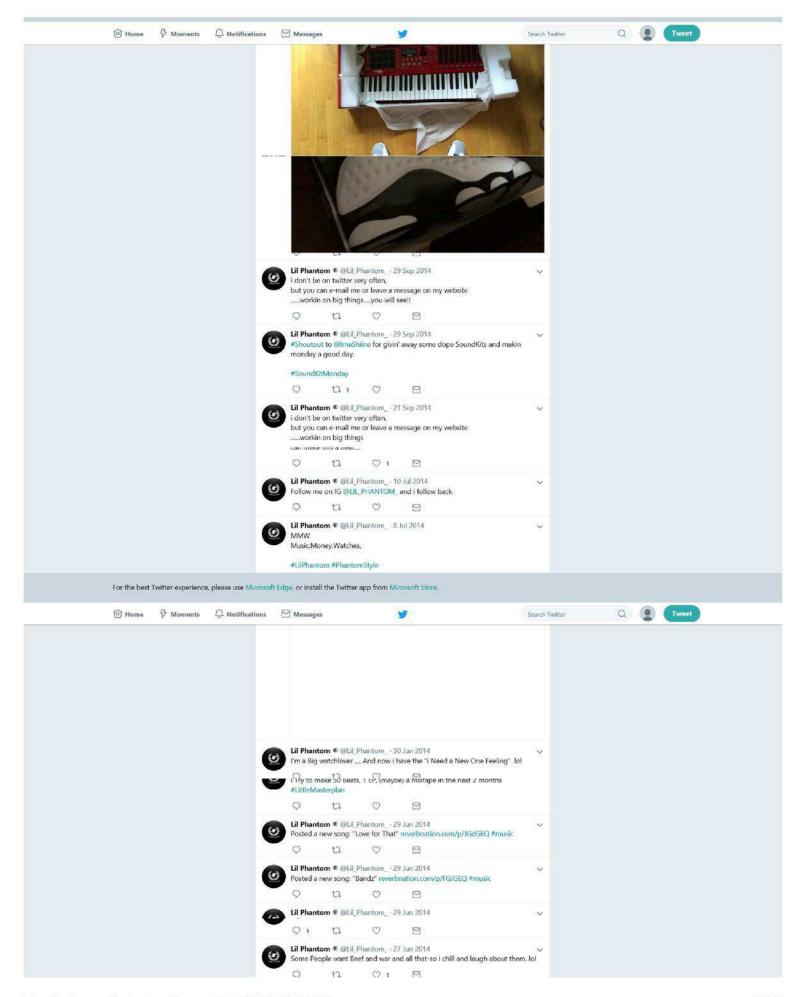


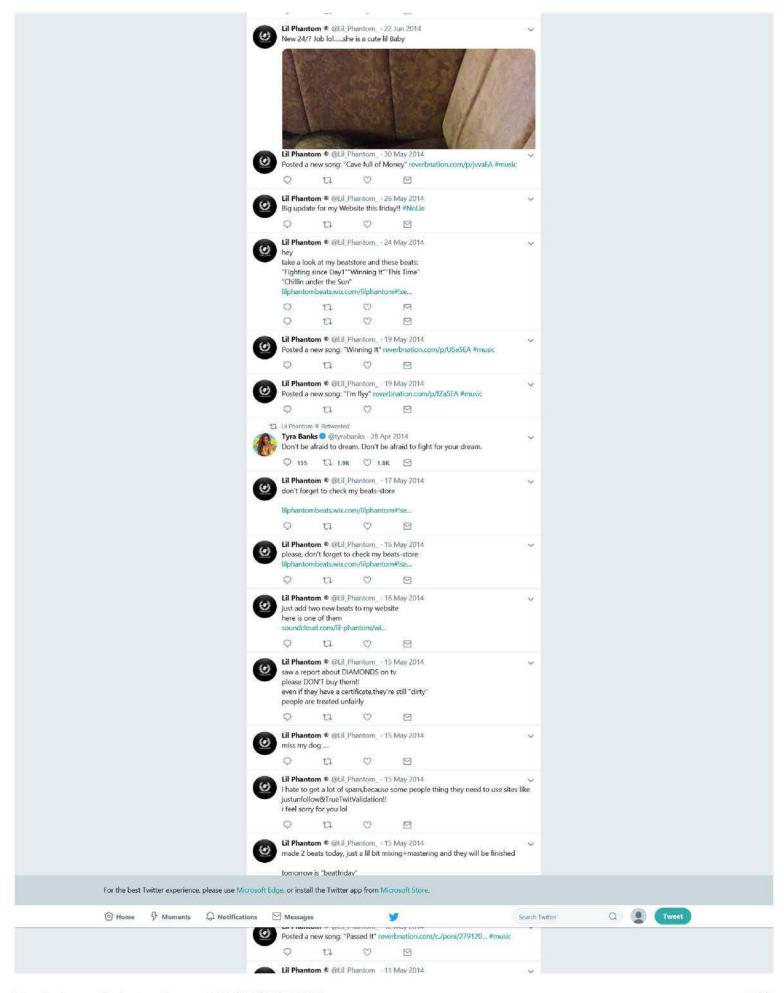


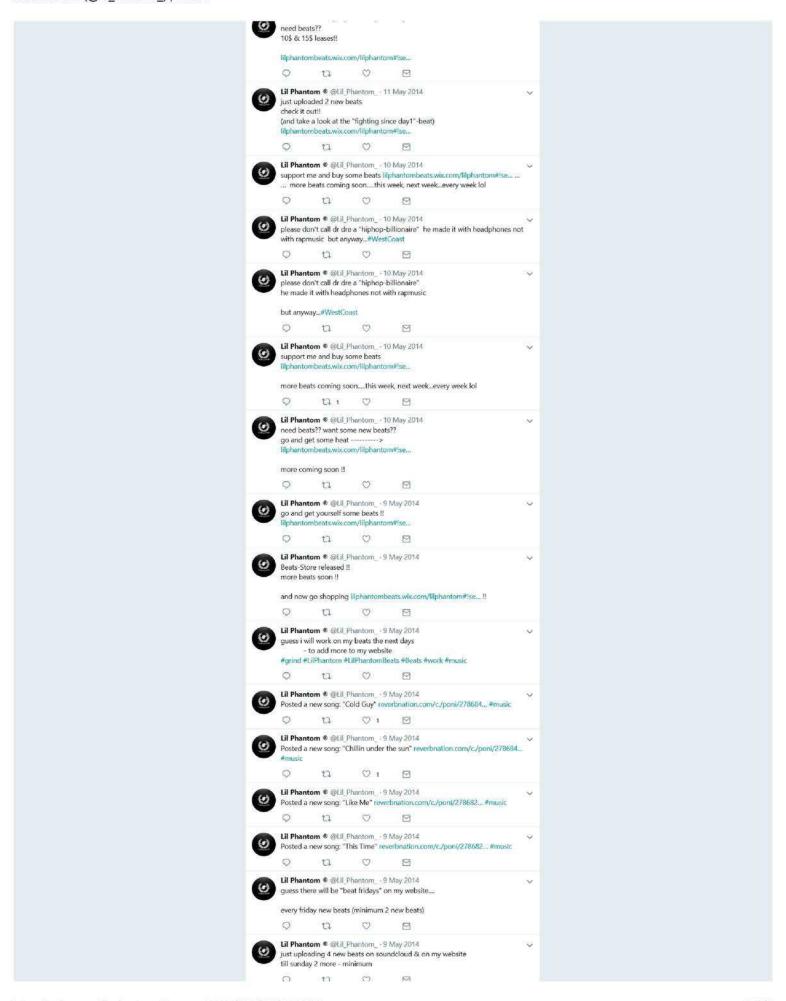


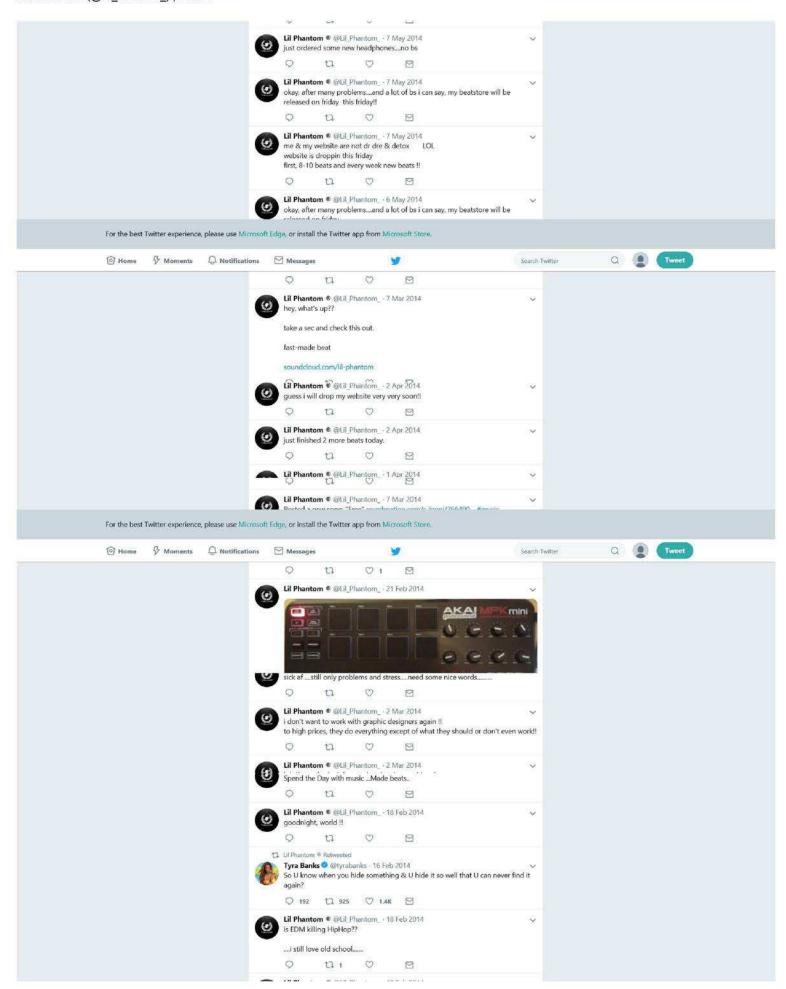


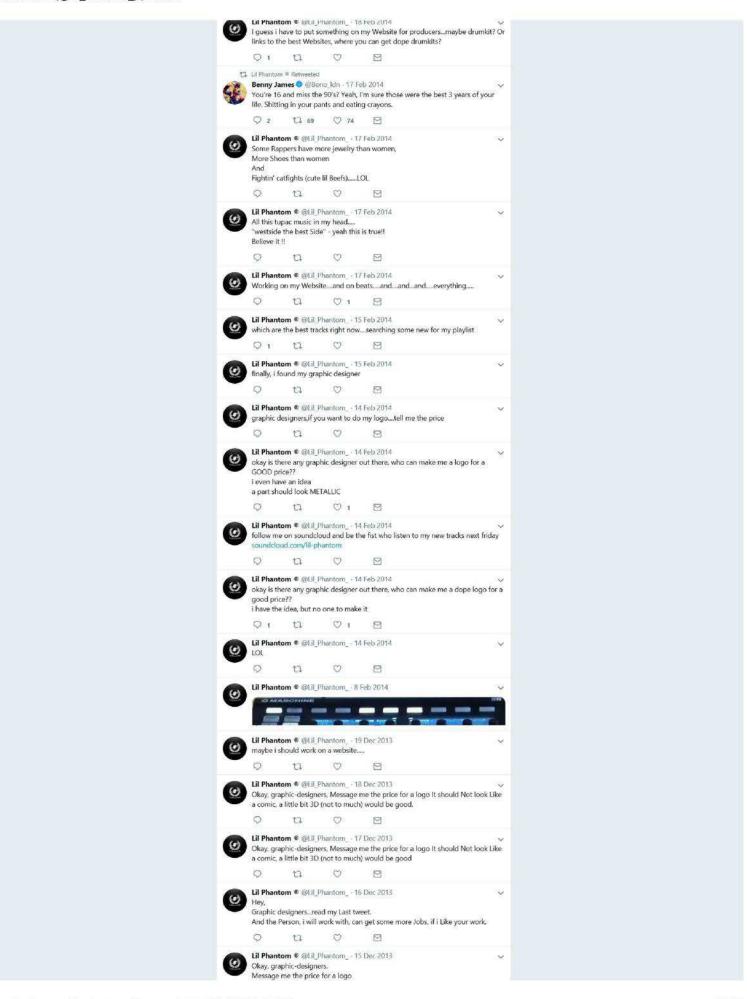


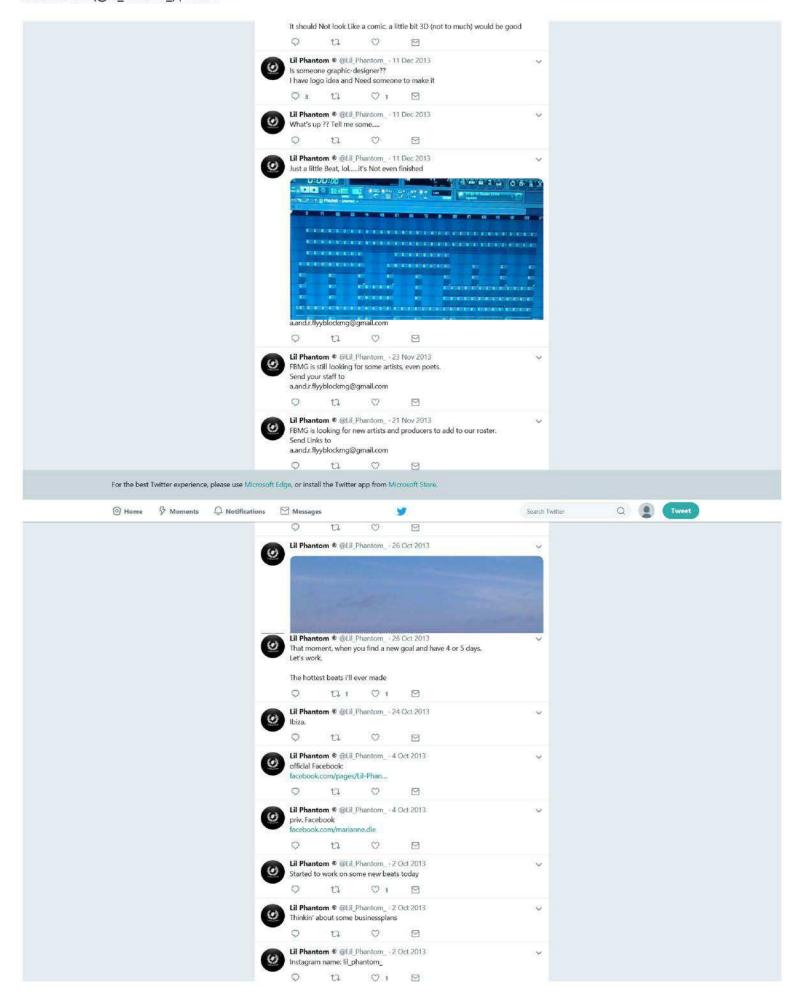


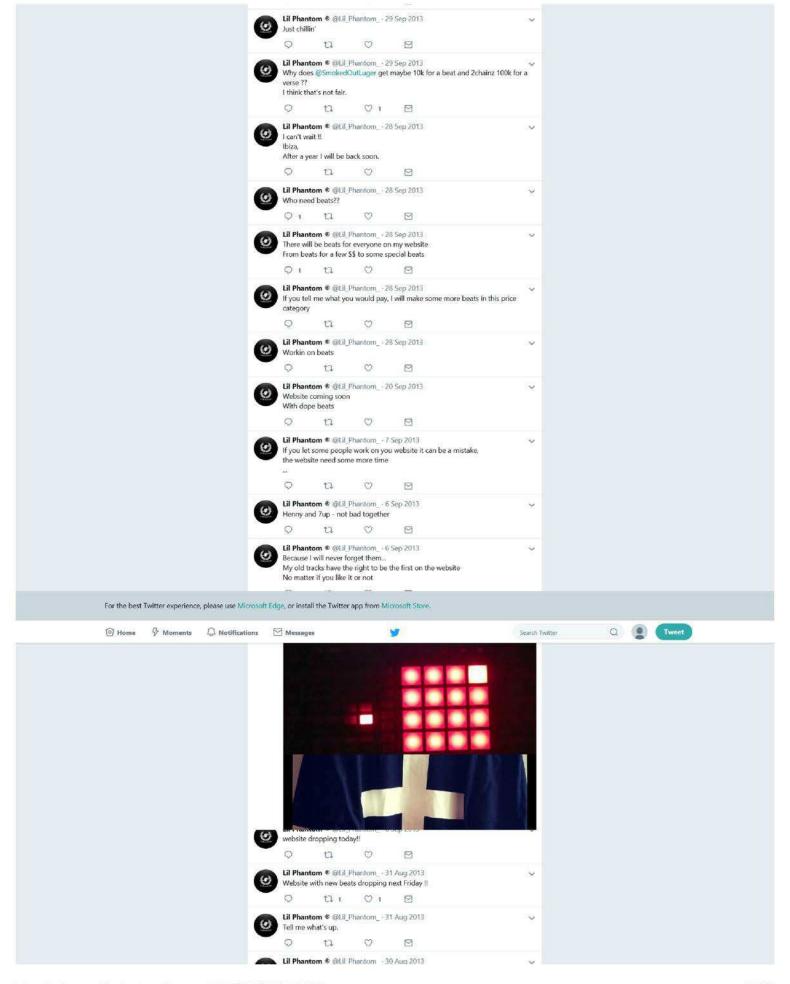


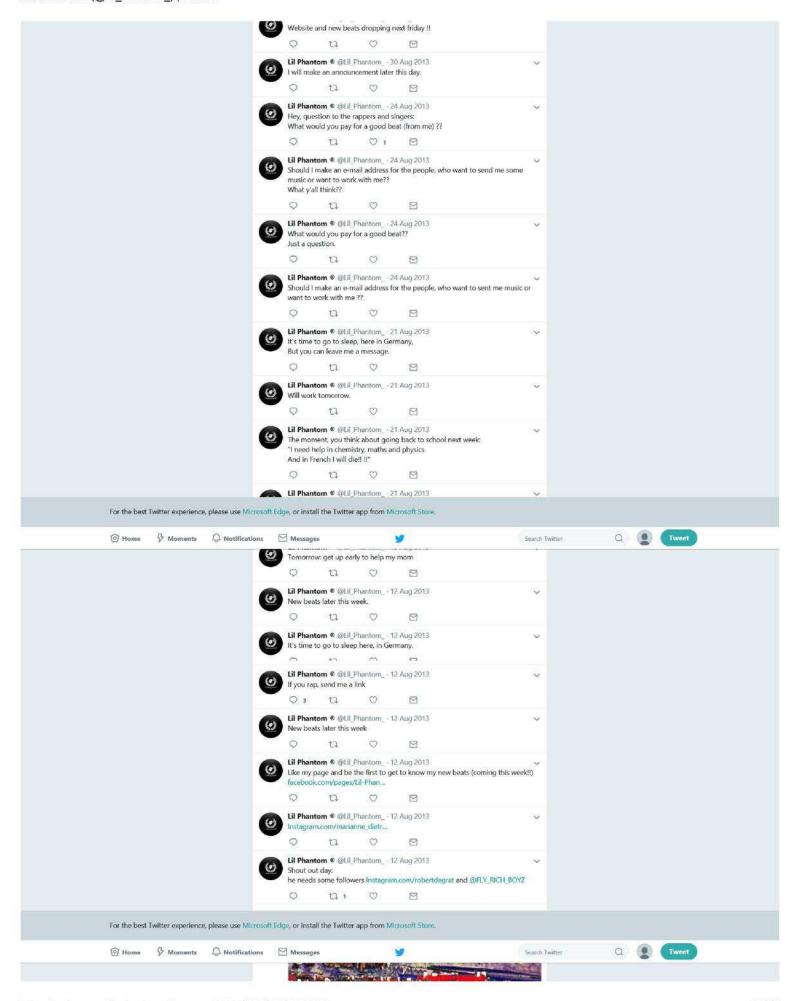


















# Phantom Dome - Advanced Drone Detection and jamming system



\*Picture for illustration only





# 1. The emanating threat of drones

In recent years the threat of drones has become increasingly vivid to many security agencies. Drones, nowadays, are used by terrorist and criminals for a multitude and variety of activities such as dropping small bombs on enemy forces in Syria and Iraq, and the same drones are often used for reconnaissance and surveillance.

Notwithstanding, drones which are used by private individuals are creating a serious threat for civilian aviation while at the same time, criminals are using drones to smuggle drugs and cellular devices into prisons.

# 2. Concept of Operations (CONOPS)

The CONOPS of the Phantom Dome Anti-drone system is to provide the defending forces a safe zone from drones. This means that any drone detected in this zone will be first detected and then, neutralized.

More so, the operator can create an interest zone where he/she knows that there is a drone but this area is classified as an interest zone for understanding that a threat exists and at this stage, the threat is being detected and monitored. Should the threat reach the operator safe zone, then counter measures will come into play. The Phantom Dome Anti Drone system provides the following capabilities:

- 1) Drone detection distance, velocity, azimuth
- 2) Drone identification what type of drone (DJI, BeeBop, Valkera etc)
- 3) Verification of drone existence usually for force guidance to locate the drone
- 4) Counter measures disrupt, foil and neutralize the drone
- Control the entire system from a single unified GUI

The system is used mainly in fixed location however, it can be modified to a vehicle and transported to various locations for operational flexibility (the system does not work while on the move).

# 3. Solution Description

The solution includes 5 different systems working in harmony:

- Drone detection system by Radar (Air surveillance)
- 2) Drone detection by optical (EO/IR) camera
- 3) Drone counter measure jamming
- RF drone detection system
- 5) Low light camera

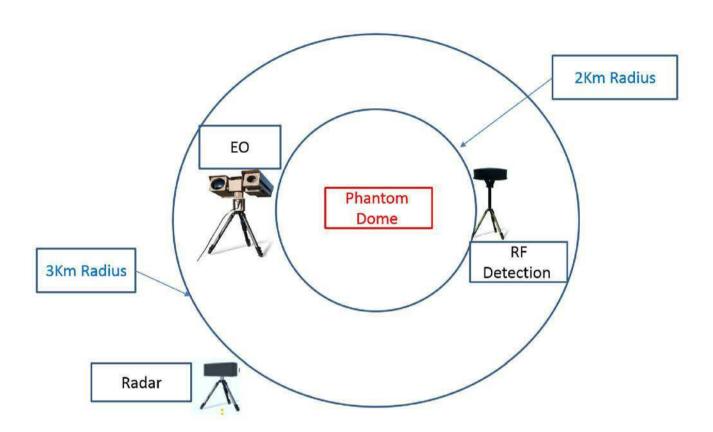
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# 3.1 System Ranges

The ranges of the system are as following:



The range of detection may naturally change due to the following conditions:

- 1) Urban or rural environment
- 2) Various weather conditions
- 3) Different terrain surroundings

\*Note: range of the RF detection system only can be enhanced to 4km however, it required additional work and can only be done with specific customer requirements.

# 4.1 jamming distance equals to detection distance

The jamming distances are basically derived from the detection capabilities since the same antennas are used for detection and jamming. This means that detection and jamming range are compatible. For example, if the detection range is 2km then the jamming range will also be 2km.





# 4.1.2 Jamming directions

The jamming can be done both by Omni antennas which means 360 degrees of jamming or directional antennas. In the case of directional jamming there are several possibilities:

- 1) 45° jamming of the various frequencies which is the basic solution in the Phantom Dome system
- 2) Custom design jamming this means that Phantom can manufacture design of directional jamming starting from few degrees angel to various option of azimuth jamming (60° or 90° for example).

# 4. System Components

# 4.1 Detection by Air Surveillance Radar

The radar air surveillance radar is equipped with a light weight air defense radar system (fixed installation). It is C-Band 3D Pulse-Doppler radar, characterized by an azimuth mechanical scan (rotating), and elevation electrical scan (also known as linear phased-array). The radar operational uniqueness is in its ability to provide range, azimuth, elevation and velocity measurements for up to 100 targets simultaneously.

The radar utilizes an advanced, innovative waveform with up to date signal processing techniques for high resolution and high possibility of target detection, coupled with low radiated power. The radar's cutting-edge technology 3D tracking and the usage of X-Band frequency provides an optimal solution for efficient detection of miniature UAVs characterized by the following: small signature, low speed and low altitude.





# **Technical Specifications - Radar**

RF Characteristics		
Frequency	C Band or X Band	
Transmitter Peak Power	200W	
Antenna Topology	Multi-Elements Digitally Controlled Phased Array	
Detection Range	Up to 20km, 3.5km for small drone (Phantom 2/3)	
Range Accuracy	30m	
Detected Target speed	0-200 m/sec	
Detection Azimuth	360°	
Azimuth Accuracy	0.3°	
Detection Elevation	0° - 60°	
Elevation Accuracy	1°	
Update Rate	2 sec (30 rpm)	
Resolution (Target's Box)	Azimuth 3.5° Elevation 8° Range - 65m	
Interfaces	Ethernet- 2 Ports (10/100/1000) I/O- 5 (Open/Ground) VGA- 1 set	
Tracked Targets (Max.)	200 - Track While Scan	
Power Consumption (Approx.)	480W	
Operating Voltage	28VDC	

	Physical Data	
Dimensions (H x D x W)	Antenna - 160 x 80 x 36 cm	
Total Weight	68 kg	

	Environment	
Operating Temperature	-30ºC to +55ºC	
Storage Temperature	-30ºC to +65ºC	
Humidity	5% - 95% non-condensing	

# 4.2 EO/IR SYSTEM

The EO/IR system is equipped with highly sophisticated electro-mechanically modular electro-optical system, which enables day and night observation for detection, recognition and Identification of targets. The electro-optical sensors are a night camera and a daytime TV camera bore sighted to each other.

5/12





# System features:

- Continuous zoom
- Auto focus
- Manual/auto gain control (including local AGC)
- NUC selection
- NUC calibration
- Optical tracking

# Method of operations:

The basic method of operations requires that once a possible detection by radar (or the RF system) is done, the camera is automatically diverted into the direction of the possible detection. Once the camera has possible detection it provides the optimal zoom in order to make a positive identification of the drone. Once that is done, the system operator will zoom out a little and put into play the video tracker which provides automatic tracking of the drone.







# 4.3 Thermal Camera

Equipped with highly sophisticated electro-mechanically modular electro-optical system, that enables day and night observation for detection, recognition and Identification of targets. The electro-optical sensors are a thermal imaging camera and a daytime TV camera bore-sighted to each other.

# System features:

Continuous zoom

Auto focus

Manual/auto gain control (including local AGC)

**NUC** selection

**NUC** calibration

Optical tracking

# 4.4 RF Detection and Jamming system

The EAGLE108 Tactical Drone Jammer was designed to neutralize the flight unauthorized Drones/Quadcopters by jamming their downlink signal. The EAGLE108 has unique software which allows quickly scanning the skies and jamming the hostile drone from ranges of up to 4km (with special dedicated antennas). The below provides technical description of the system.





# 4.4 System components:

- a) Receiver The basic system includes 2 receivers, a 2.4 and 5.8 receiver for Wi Fi. If and when there are additional drone telemetry transmissions to the operator, another receiver will be added to the system (upon customer requirements).
  - RF from the RF Switch: RF switch is used to channel RF that comes from the different antennas to the receiver
  - Data/Command to the PC: The data received from the antennas, meaning RF signals
    in from the different bands, is being transferred and relayed to the PC for further
    analysis.
  - AC to Socket: electricity of the system.
- b) Communications box: The Com. Box is the main system providing communications and control between the different components of the system.
  - Data/Command to the PC & Jammer: the data which us received form the receivers is transferred through the Com. Box to the PC and the jammers simultaneously.
  - AC from the Jammer's Power Supply: the PS is providing power to the Com. Box.
- c) RF Switch: The RF switch provides the connectivity between the different antennas and the receivers. Thus, allowing each antenna to have its own scanning time.
- d) Jamming unit: this unit provides the jamming after the detection and identification of the drone is completed.
  - PC Comm. Box Jammer: the command is relayed from the PC through the Com.
     Box to the jammer.
  - P.S. AC to Socket: for the jamming unit
  - e) Antennas -
    - Detection to RF Switch: Scan and detect by the different antennas to the RF switch.
    - b. Jamming to Jammer: the jamming module to the jamming antenna
- f) PC controller the PC receives the information from the detection unit, it analyses the frequency pattern and if deemed necessary, the PC commands the jamming unit to jam the threat.





# 4.1.1 System basic functionalities include the following:

- a) Jamming of Wi Fi frequencies 2.4 and 5.8GHz.
- b) Jamming of the GPS frequency 1.5GHz.
- c) Scan detect identify jam up to 1km.
- d) All the above is in fixed installation

# 4.2 Scanning and Jamming frequencies - what bands are scanned and what are jammed:

Scanning and jamming are two separate but completing actions. However, it is important to emphasize that while all relevant bands are jammed, not all of them are scanned for. The basic logic behind it is that every band which is used by the drone to transmit commands to and from the drone will have a receiver and a jamming module. All other relevant bands for the operations of the drone will be jammed according to customer requirements. The below explains the different bands that are jammed but there is no need to scan for them:

9/12





- a. VHF (400-470 MHz) some drones use an installed small crane in order to grasp a small payload (an IED for example). This payload is released by the drone operator when the drone is above the target. If this scenario is known, then the jamming of the UHF signal will prevent the operator from dropping the payload. Scanning and detecting this band will be costly and more expensive than just jamming this band.
- b. GPS bands this band is also only jammed, since this band is very likely to exist in almost everywhere in the world. Therefore, scanning for it is basically useless.
- c. Other bands such as 900 MHz in Japan for example, the command uplink channel from the operator to the drone is 900MHz. reception of data from the drone is still done in 2.4 or 5.8 GHz, therefore, this band can also, optionally, be jammed.

# 4.3 operating the system:

- a) Scan Using the RF receivers to scan the relevant area of operations/protected area.
- b) Detect Via our SW algorithm, we detect the Drone-Operator's Communication. It is important to emphasize that Phantom detection of drones is conducted solely by RF measures and therefore, it is oblivious to other flying objects like balloons, other plans etc. this provides the drone jammer operator with close to zero false alarms.
- c) Identification hundreds of different Drone's communications had been recorded in our Threat Bank and once a detection of drone is done by the system, the next stage is an automatic comparison of the drone detected to the drone jammer database. This provides in most cases, the identification type of the drone and enable's investigators to have valuable information about the hostile drone.
- d) Jamming Using our prior knowledge about drones, we are Jamming all sort of Communication required by any commercial/tactical Drone.

Jamming range: the basic system has a range of detect and jam of 1 km, however, adding special dedicated horn antennas, provides an extended range of detect and scan of up to 4km.

# 4.4 System's Modes of operation:

Basically, the drone jammer creates an envelope of jamming which surrounds the drone. Concretely, the system jams the downlink signal of the drone to the drone operator and the signal coming from the GPS satellite. Jamming time has been set up to 2 minutes in order to avoid any

10

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possible interference to other RF relevant emissions. The following explains the various methods of system operations:

- a) Manual operation according to operator's requirement, the jamming will be done manually by the operator. This allows the operator the freedom of choice, to decide when and where to jam the drone threat.
- b) Automatic Automatically detects and jams the drone. In both operation modes, manual and automatic jamming, the operator decided the length of jamming time which is up to 2 minutes.
- c) Detection only calibrating the system, identify flight pattern and type (manually).

# 4.5 What happens to the jammed drone?

- a) GPS, Maneuvering Commands, Video, Telemetry, Photos are jammed.
- b) Immediately the Operator will get "No Signal" "No Satellite" and "No Communication" on his remote device.
- c) The Drone will "Freeze" in the air for few seconds, then start its cushion land or to drift away.

# 5 System deployment options:

- a) Fixed installation:
  - Electricity 110/220VAC 50~60Hz.
  - Dedicated strong and stable stand to put the system on.
  - The antennas location should be at the exterior of a compound and to have the largest line of sight possible.
  - The range of detection depends on a variety of elements, such as line of sight, the transmit level of the surroundings, the detection antenna's g ain etc.

# Vehicle installation:

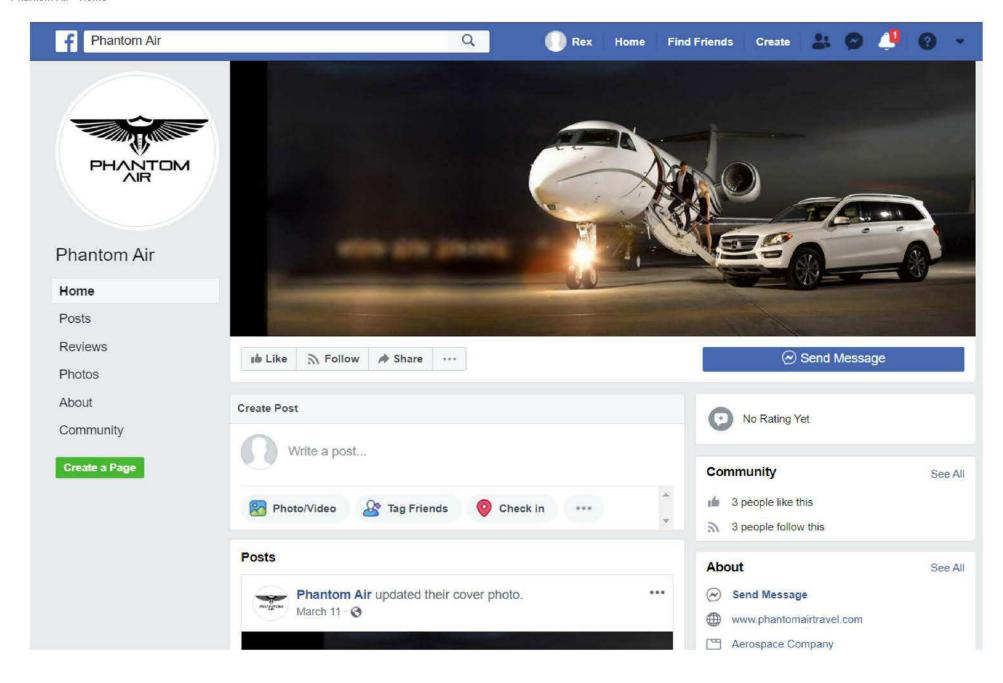
- Electricity- 110/220VAC 50~60Hz (By dedicated generator) or 28VDC.
- Dedicated rack implementation for the system, with in car RF cables for the antennas.
- The antennas location is on the roof or inside a dedicated roof baggage on top of it.
- The range of detection depends on a variety of elements, such as Line of sight, the transmit level of the surroundings, the Detection Antenna's Gain etc.

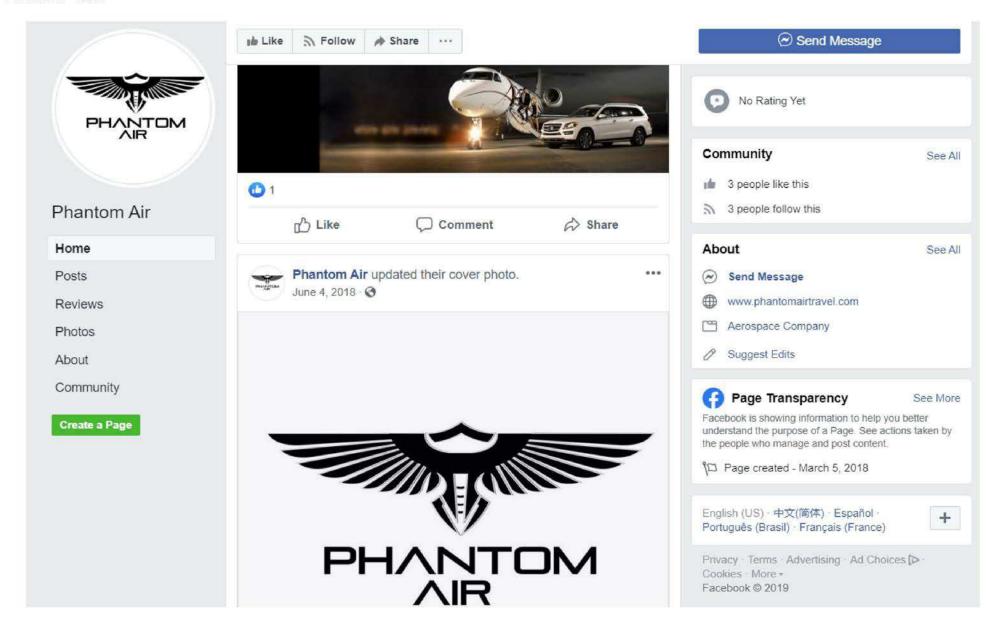


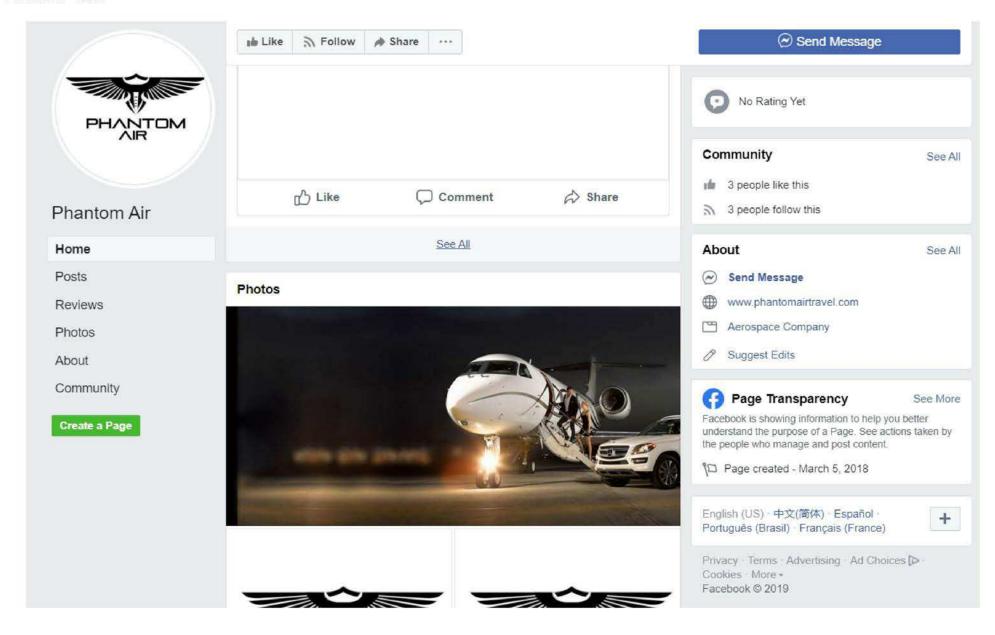


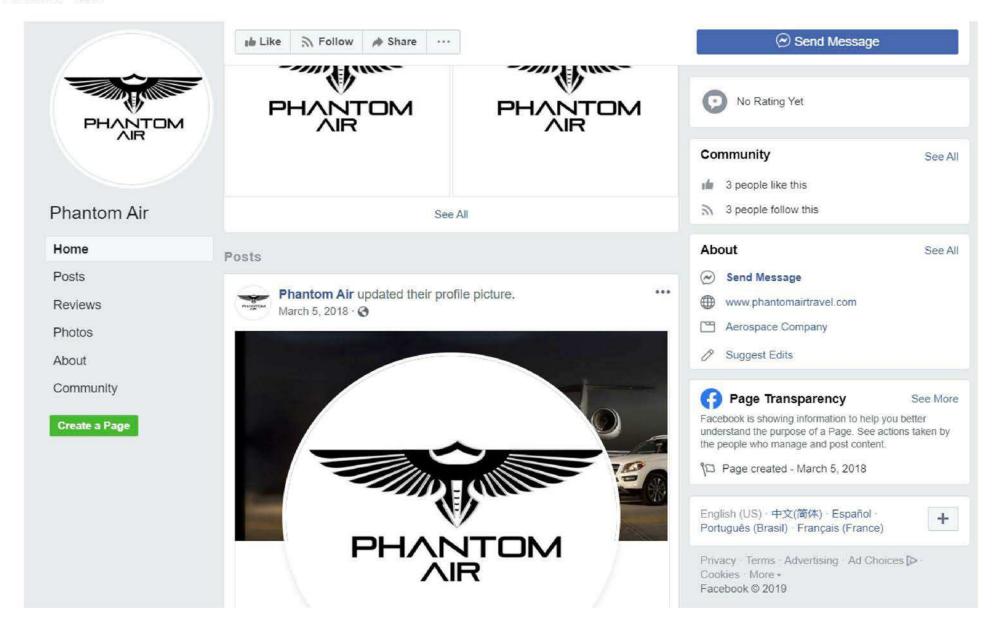
# **Technical Specifications Jamming Block**

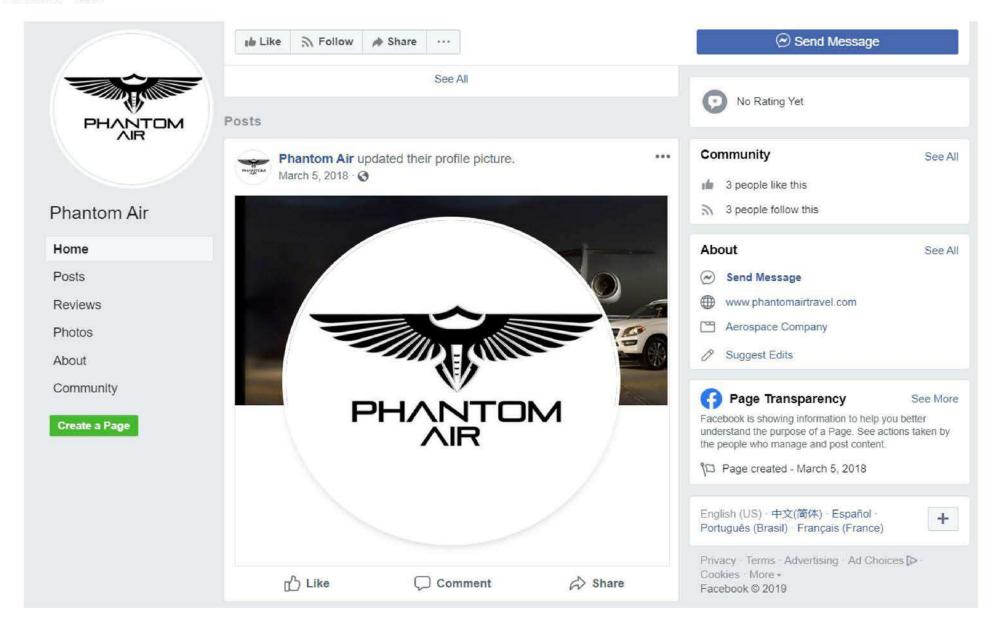
	RF Characteristics
Output Power	255W
Internal Modulation	FM Hopping Frequency & White Noise
Signal Source	DDS & PLL synthesized
Power Supply	28VDC
Modules Per Unit	5
Remote Control	TCP/IP Protocol
Antenna	External Omni-Directional & Directional Antenna
	Possible Jamming Frequency Bands
Frequency Band	433-435 MHz - 50W 868-915MHz - 50W 1575-1610MHz - 5MHz 2,400-2,483 MHz - 100W 5,150-5,825 MHz - 50W
Air Interface Standards	Digital: ISM, GPS, Video & W-LAN
	Physical Data
Dimensions	3 x 19"/4U – Total 19" x 12U packed in two trolley cases
Weight	Approx. 70Kg
	Environment of operation
Operating Temp	-20°C - +65°C
Humidity	95%
Mil Spec Standard	MIL- STD- 810F

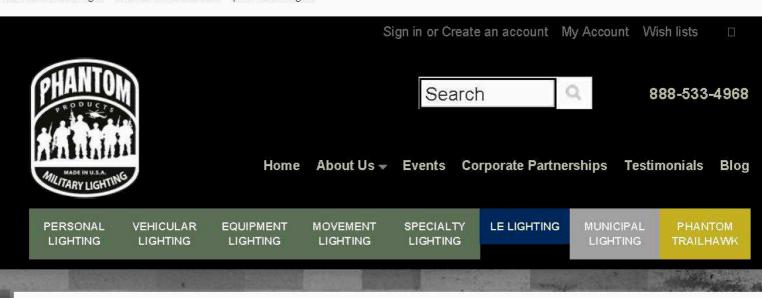














# Phantom Force™ Work Light, White

Phantom Force ™ Work Light, White

Phantom Products, Inc.



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SKU:

TH4X1FORCE-W-W









# **Product Description**

Keep the Force hands free work light with you and illuminate any workspace.

- With a 10-foot cord and car adapter, this hands free work light plugs in to any cigarette lighter to provide LED illumination.
- Magnets and swivel base design allow this hands free work light to attach to any metallic surface.
- · The Force flood beam light provides complete illumination for an area within 20 feet, including underneath cars and boats.

The Force is here, and it's stronger than ever. Coming in a sleek white housing, this hands free work light will surely become your best and brightest tool. No matter if you're working underneath the car, boat, golf cart, or something else, this LED-powered hands free work light illuminates the area for up to 20 feet. A 10-foot cord and car adapter makes this the handiest plug-and-go work light out there. Attaches to metallic surfaces with two rare

Add to Wishlis

earth magnets, while the handle swivels allow the beam to be directed exactly where it's needed. Get the best hands free work light today from Phantom Lights.

# Specifications:

- 10-foot cord
- White
- LED light
- Two magnets
- Swivel handle

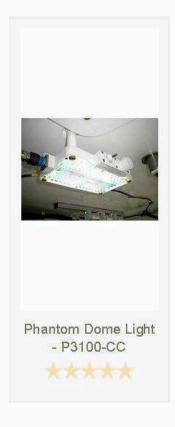
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<

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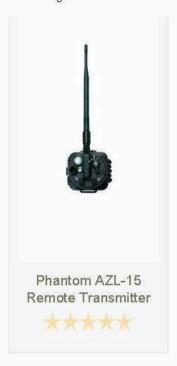
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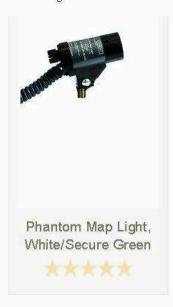
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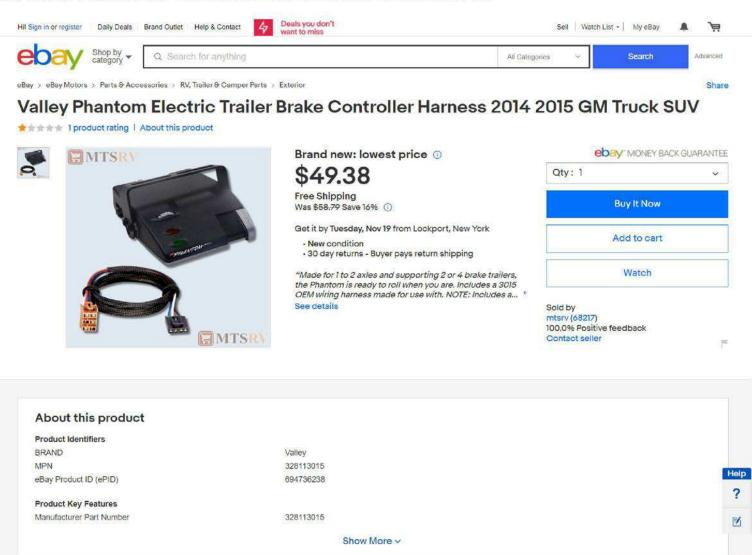
Phantom Products is a company dedicated to creating the very best quality products possible. Military lighting gear is our specialty, we strive to help you perform at the highest possible level.

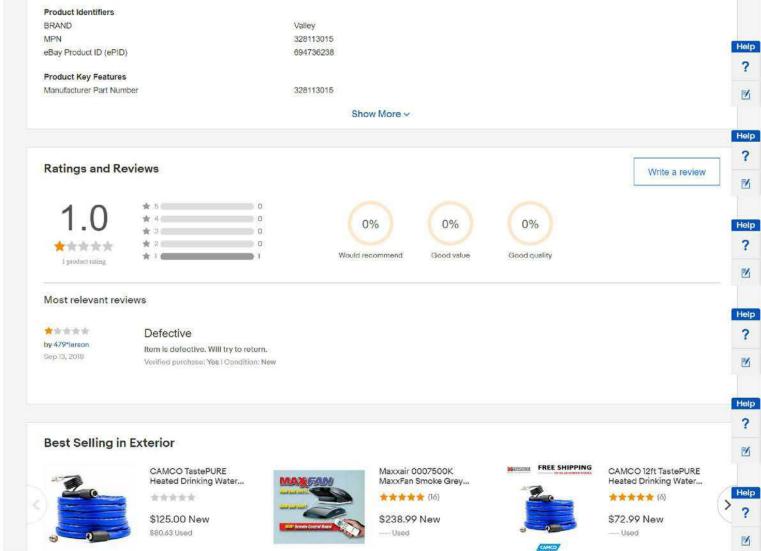


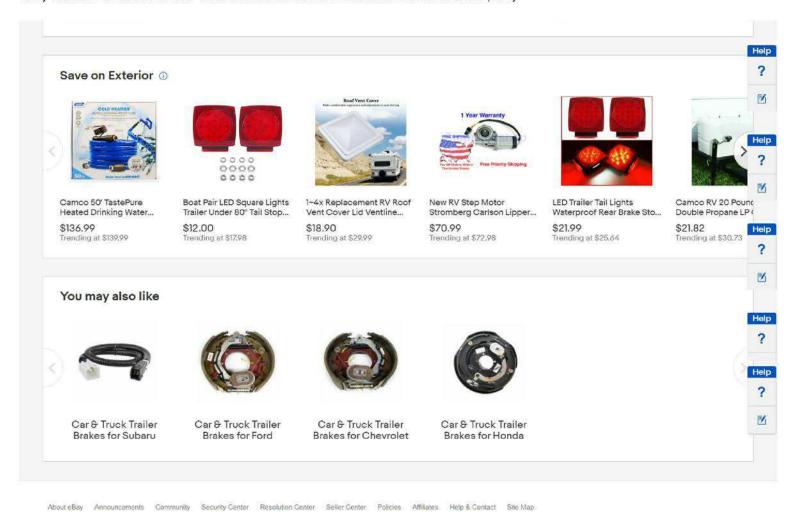
All prices are in USD Sitemap | Privacy Policy | Powered by e Commerce Marketing 360®

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EN/FR

# FLYING PHANTOM ULTIMATE

#### Be daring

The Flying Phantom ULTIMATE offers the 18' catamaran that only Phantom could create, high performance and precise agile handling, with ultimate refinement.

The FP ULTIMATE is the result of Phantom International unrivaled experience in foiling beach catamarans combined with the benefits from the last ACSO developments in Bermuda during the America's Cup.



It was designed to be furthermore efficient on every point of sail, with upwind VMG up to 15% higher than foiling cat benchmark. The brief was clear: 100% foiling upwind with enhanced performance and stability and better foiling gybes. It is something that has never been achieved before on this type of boats.

Experience what performance feels like and to become an exclusive member of the Ultimate owners club (limited production).



KEY FEATURES





# 1. The hulls are lighter

The **hulls** are lighter and have less windage because the freeboard is lower. They have less drag at low speed which improves take off.



#### 2. Dyneema membrane deck sweeper main and low aspect jib

The deck sweeper cut lowers the center of effort in the sail, thus providing more righting moment. This results in a more powerful sail but also makes flying much easier.



## 3. Outboard dagger boards

The daggerboards / foils reach outboard to increase righting moment which improves upwind foiling. The straight shaft and long tip result in better heave stability and the aspect ratio of the tip is higher, increasing the efficiency.



# 4. Stiffer rudders

The **rudders** have been optimized to improve the stiffness for better handling and control. They are longer to keep the elevator deeper in the water.



# 5. Larger rudder elevators

Now that the **foils** are more efficient we managed to increase the elevator area for the same overall drag, which results in better stability on every point of sail and in the manoeuvres and especially the foiling gybes. The shape of the **rudder elevators** is also more efficient, with wing tips to reduce induced drag and smooth shaft / elevator junction to reduce pressure drag.





TECHNICAL SPECS

Design team Phantom Int & Gonzalo Redondo 03

Consultants Benjamin Muyl. Franck Cammas

Length 5.5m/ 18'

Width 3m Weight 155kg

Mast 9.6m/Tapered/Pre preg carbon with high modulus cured in autoclave

Beams Carbon

Daggerboards Pre-preg high modulus carbon cured in autoclave/ 1,45m draught (max)

Rudders Pre-preg high modulus carbon cured in autoclave/

Rudder elevators Pre preg carbon cured in autoclave/ 443 cm2

**Hulls** Pre-preg carbon, nomex honey comb sandwich cured at high temperature

Mainsail Decksweeper/ Dyneema membrane/ 18,5 m2 with

Jib Low aspect ratio/ Dyneema membrane/ 4.5 m2

Gennaker Mast head/ Polyester/ 24 m2

PRICE LIST

Flying Phantom ULTIMATE, ready to sail

Includes White hulls with EVA pro grip, DECKSWEEPER main, and polyester Code D (white, red, blue or black)

#### **OPTIONS & ACCESSORIES**

Colored hulls (red. blue, yellow, black, grey)

1401 €

Team edition 2018 design

4500 €\*

Beach trolley

979 €\*

EVA stern checks (set of 2)

616 €'

Bags (rudders, elevators, daggerboards, spreaders)

517 €

Set of boat covers (platform, spinnaker chute, foil tips)

1287 €

\*Valid from November 1st 2018, prices in euros, ex-tax, exfactory Dinard/ France

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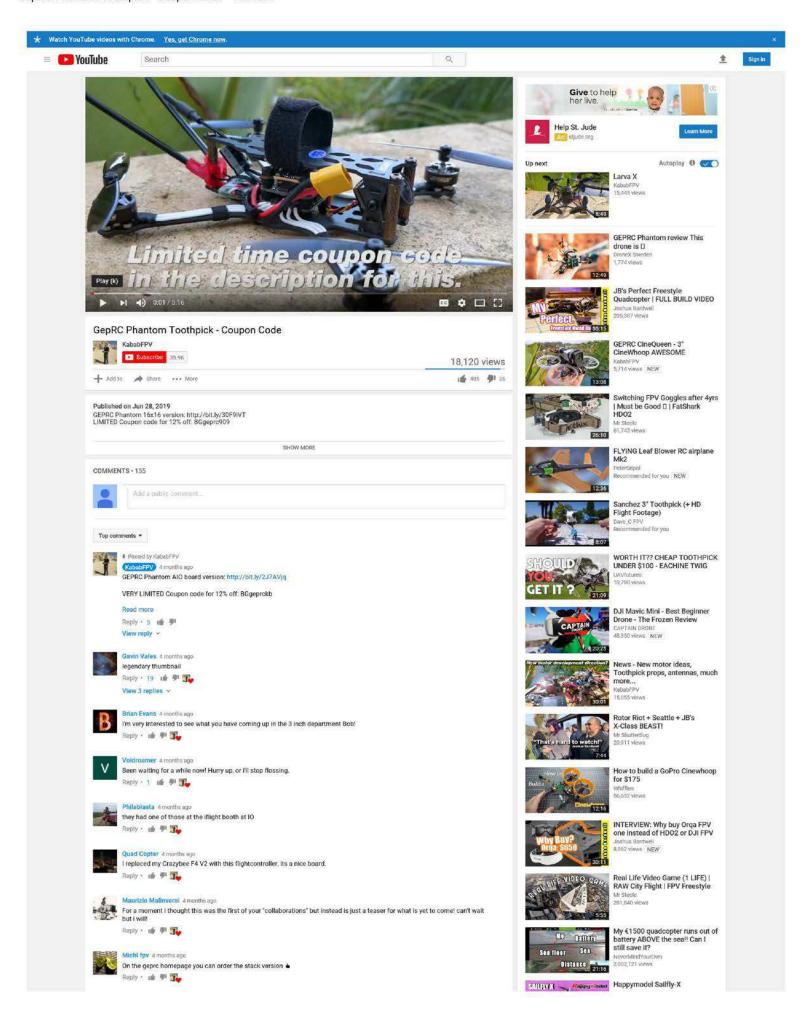


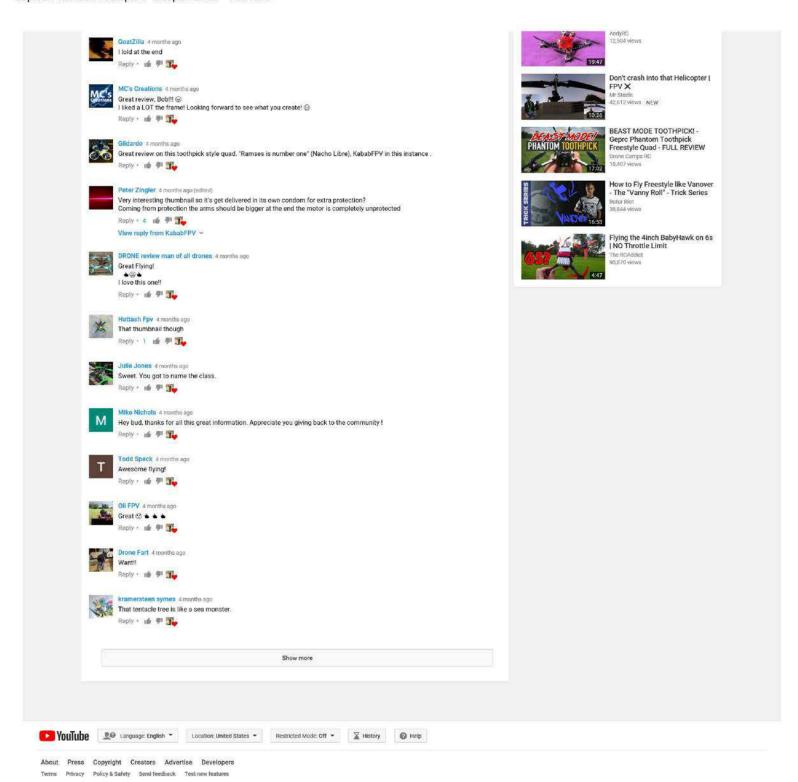
hantom International 40 rue des Frères Boussac, 35800 Dinard, FRANCE, +33-2 99-56-06-58, contactiéphantom international com

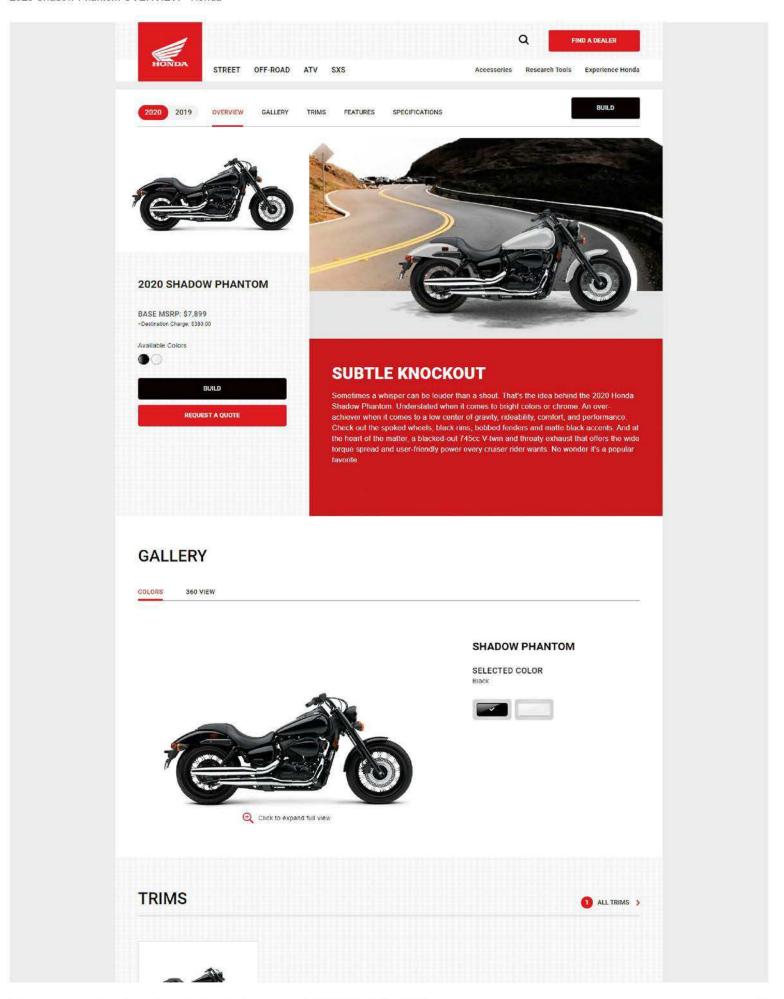


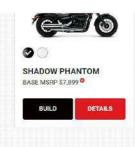
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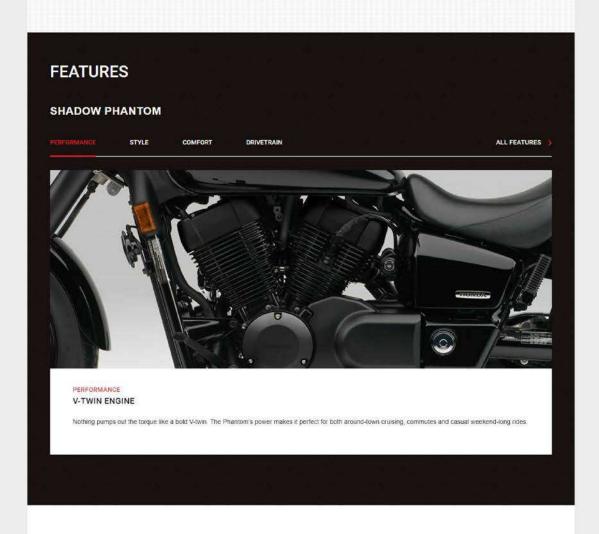
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# **SPECIFICATIONS**



# SHADOW PHANTOM

9.6.1

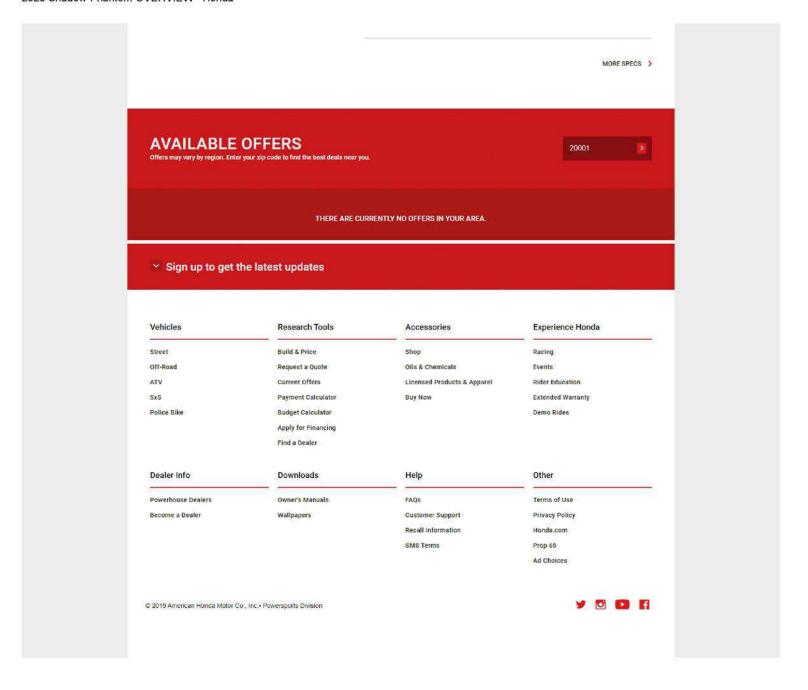
Engine Type
745cc liquid-cooled 52\* V-twin

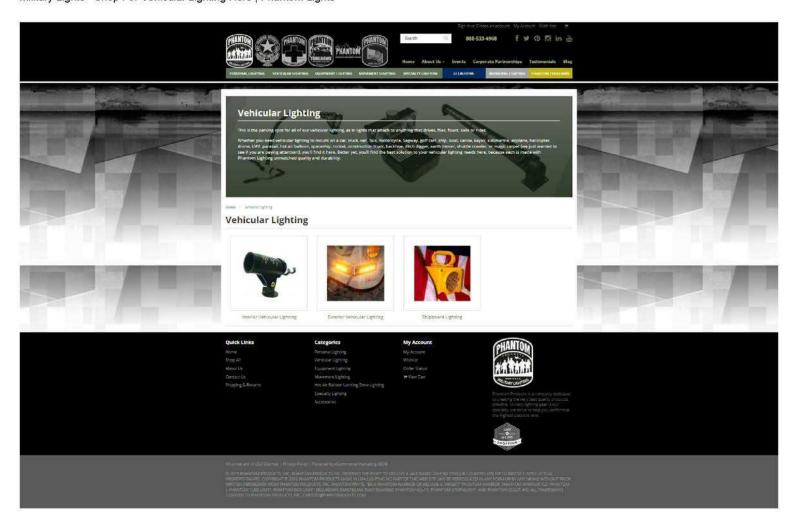
Bore And Stroke
79mm x 76mm

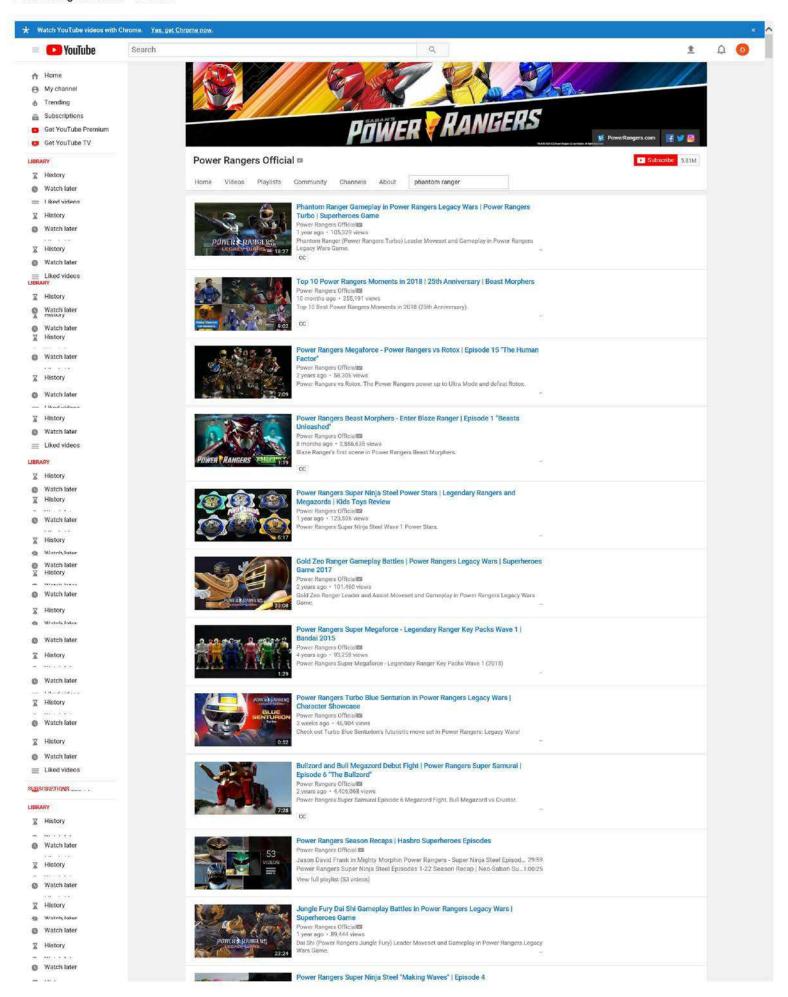
Induction
PGM-FI with automatic enrichment circuit, one 34mm throttle body

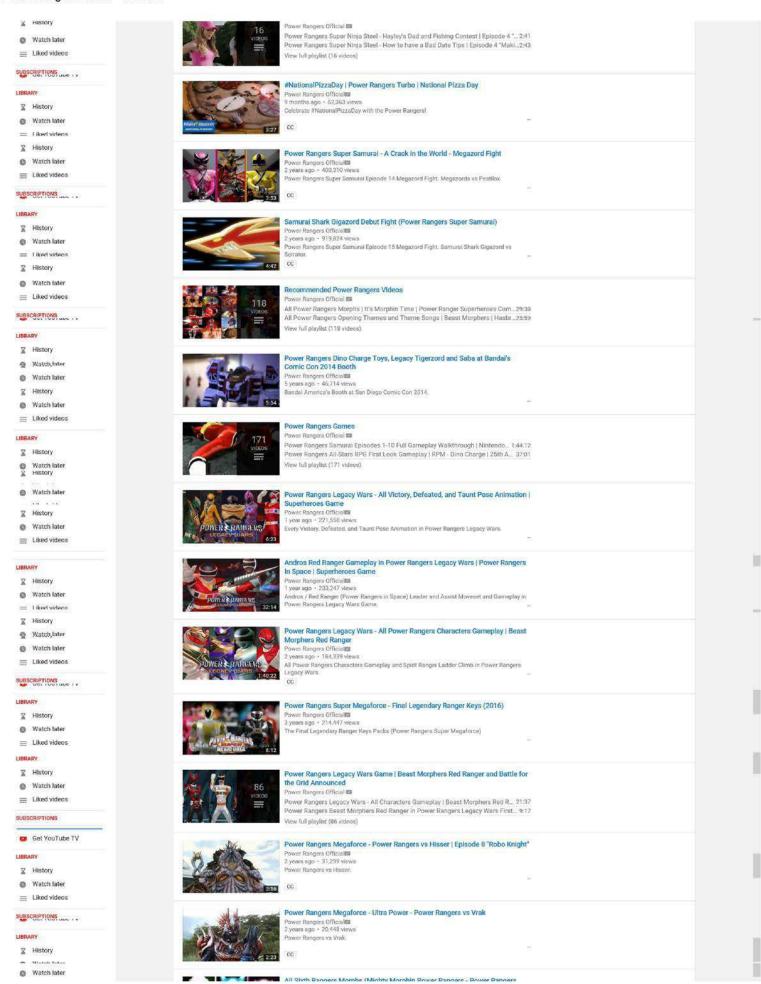
Ignition
Digital with 3-D mapping, two spark plugs per cylinder

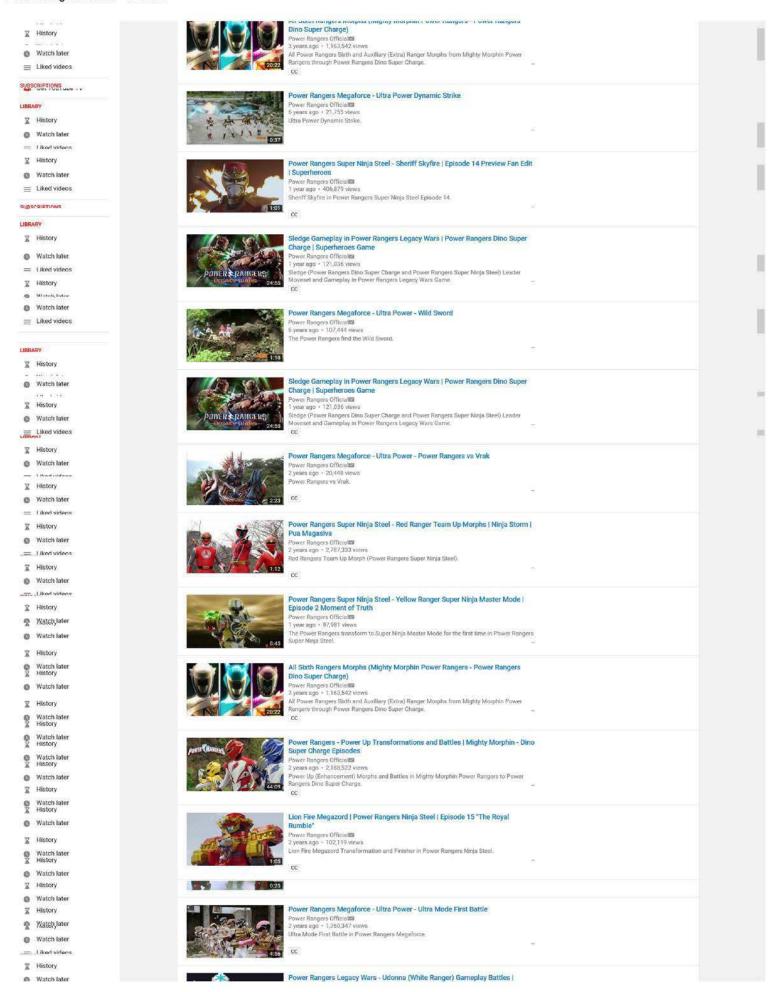
Compression Ratio

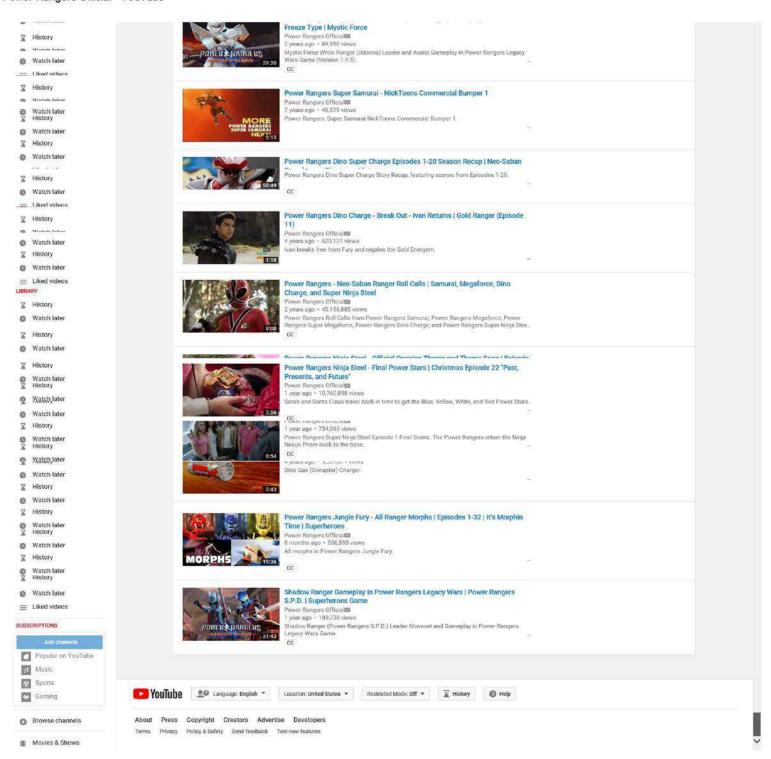














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# **QF-4 Aerial Target**



















## **Equipment Categories**

- Army Equipment
- Navy Equipment
- · Air Force Equipment
- Marine Corps Equipment
- · Coast Guard Equipment
- Electronics
- Military Aircraft

- Military Vehicles
- Ordnance
- Personal Equipment
- · Ships and Submarines
- Special Operations Equipment
- Weapons



QF-4 Aerial Target

## Categories

Air Force Aircraft, Air Force Equipment, Drones, Military Aircraft

Manufacturer: BAE Systems

Services: United States Navy, United States Air Force

Power plant: Two General Electric turbojet engines with afterburners

Speed: 1,600 mph (Mach 2)

Range: 1,300 miles

The supersonic QF-4 is a reusable full-scale, remotely piloted aerial target modified from the F-4 Phantom fighter jet. The QF-4 provides a realistic full-scale target for air-to-air weapons system evaluation, development and testing at Tyndall Air Force Base, Fla., and Holloman AFB, N.M.

The QF-4 is a remotely controlled target, which simulates enemy aircraft maneuvers. The aerial target can be flown by remote control or with a safety pilot to monitor its performance. The QF-4 is flown unmanned when missiles are fired at it, and only in specific over-water airspace authorized for unmanned flight. When flown unmanned, an explosive device is placed in the QF-4 to destroy the aircraft if it inadvertently becomes uncontrollable.

The QF-4 is equipped to carry electronic and infrared countermeasures to fully evaluate fighters and weapons flown and fired against it. Full-scale aircraft can be flown totally by computer, or controlled manually during takeoff and landing using a mobile control station located at the runway. As a safety precaution, a

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Pararescuemen Freefall from HC-130



Soldiers Test Out Newly Fielded M17 Pistol on the Range



Soldiers Test Lockheed

chase plane trails the QF-4 during critical periods of flight.

First flown in May 1958, the Phantom II originally was developed for U.S. Navy fleet defense and entered service in 1961. The Air Force evaluated it as the F-110A Spectre for close air support, interdiction and counter-air operations. In 1962, U.S. Air Force version was approved. The Air Force's Phantom II was designated F-4C, and first flew May 27, 1963. Production deliveries began in November 1963.

The F-4 was the primary fighter-bomber aircraft in the U.S. Air Force throughout the 1960s and 1970s. F-4s also flew reconnaissance and "Wild Weasel" anti-aircraft missile suppression missions. Phantom II production ended in 1979.

The modified F-4 became the QF-4. It is the successor to the QF-106 in the Air Force aerial target inventory.

The aerial target fleet is operated and maintained by the 82d Aerial Targets Squadron, located at Tyndall AFB. The squadron is a subordinate unit of the 53rd Weapons Evaluation Group at Tyndall AFB. The 53rd WEG reports to the 53rd Wing at Eglin AFB, Fla. The QF-4 program attained initial operational capability in 1997.



Martin's Onyx Exoskeleton



Modern Day Marine 2019: Military.com's Matthew Cox speaks with Don Pride from Steiner eOptics



F-16 Sports New Targeting Pod in Flight

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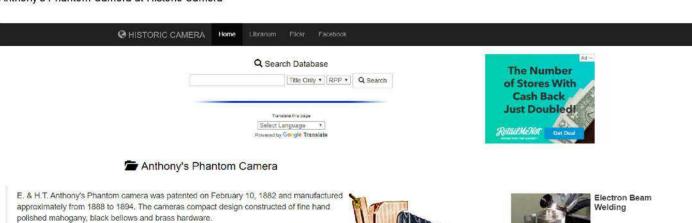
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## Defense Tech

- Plans for Pentagon's Future Flying Bomb Truck Begin to Take Shape
- Marines Want Crab-Like Unmanned
   Vehicle to Clear Beach Mines
- In First, Air Force Will Send Secure
   Data Between an F-22 and F-35
- Following Army, Air Force Tests ATHENA Laser That Can Destroy Multiple Drones

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Later models tried to introduce a unique reversible back in which the bellows were rotated while the front standard remained fixed. This action caused bellows wear and eventually damage. The book describes it as the invention consists in so attaching a bellows to the front part of the camera as to allow the bellows to turn or revolve, where by only the rear part of the camera needs to be loosened to change the position from vertical to horizontal or viceversa without altering the position of the front part of the camera, to which the lens is attached.









CLICK HERE for a list of Anthony Cameras.



## Anthony's Phantom Camera at Historic Camera

External Links:
Rob Niederman's Phantom Camera at AntiqueWoodCameras.com

# 365
2615-26-02 153125

Return to Previous Page
Return to the History Librarium

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#### FAA INFORMATION EFFECTIVE 07 NOVEMBER 2019

#### Location

```
FAA Identifier: 26NH
            Lat Long: 43-40-04.2000N 072-12-09.8000W
43-40.070000N 072-12 163333W
43-6678333,-72.2027222
         43.00/8333, /2.202/222
(estimated)
Elevation: 1275 ft. / 389 m (estimated)
From city: 3 miles W of LEBANON, NH
Time zone: UTC - 5 (UTC - 4 during Daylight Saving Time)
Zip code: 03766
```

#### Heliport Operations

```
Heliport use: Private use. Permission required prior to landing
   Activation date: 09/2007
    Control tower no
ARTCC: BOSTON CENTER
FS: BANGOR FLIGHT SERVICE STATION
Attendance: UNATNDD
Wind indicator: yes
Segmented circle: no
```

#### **Heliport Communications**

WX ASOS at LEB (5 nm SW): 118.65 (603-298-8780)

#### Nearby radio navigation aids

VOR radial/distance	VOR name	Freq	Var
LEB at field	LEBANON VOR DME	113.70	15W
MPVs173/27.2	MONTPELIER VOR/DME	110.80	16W
CONr330/38.3	CONCORD VOR DME	112.90	15W

NDB name	Hdg/Dist	Freq	Var	ID	
HANOVER	223/2.3	276	15W	LAH	
CLAREMONT	038/19.4	233	16W	CNH	
SMUTO	109/32 8	221	15W	DYO	

## Heliport Services

### Runway Information

## Helipad H1

Dimensions: 40 x 40 ft. / 12 x 12 m Traffic pattern: left left

### Heliport Ownership and Management from official FAA records

Ownership: Privately-owned Owner: HENRY K. WAKEMAN III 9 LAUREL ST 9 LAUREL ST.
ETNA, NH 03750
Phone 603-359-3174
Manager HENRY K WAKEMAN III
9 LAUREL ST. ETNA, NH 03750 Phone 603-359-3174

## Heliport Operational Statistics

Aircraft based on the field: 1 Helicopters: 1

## Additional Remarks

CONTACT LEBANON ATCT WHEN CONDUCTING OPNS.

FOR CD CTC BOSTON ARTCC AT 603-879-685

### Instrument Procedures

There are no published instrument procedures at 26NH.

Some nearby airports with instrument procedures;

KLEB - Lebanon Municipal Airport (5 nm SW) 2B3 - Parlin Field Airport (17 nm S) KCNH - Claremont Municipal Airport (19 nm S) KVSE - Hartness State Airport (Springfield) (24 nm SW) 5B9 - Dean Memorial Airport (26 nm N)

## Would you like to see your business listed on this page?

If your business provides an interesting product or service to pilots, flight crews, aircraft, or users of the Phantom Two Heliport, you should consider listing it here. To start the listing process, click on the button below

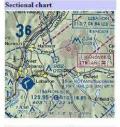
### Other Pages about Phantom Two Heliport





Road maps at: MapQuest Bing Google





## to Phantom Two Heliport? Find the

tance to fly



Sunrise and sunset

	(UTC-5)	(UTC
Marning civil twilight	06(18	11:11
Sunrise	06:49	11:4
Sunset	16:19	21:1
Evening civil tryllight	16:51	21:5

## Current date and time

Zulu (UTC) Local (UTC-5)

## METAR

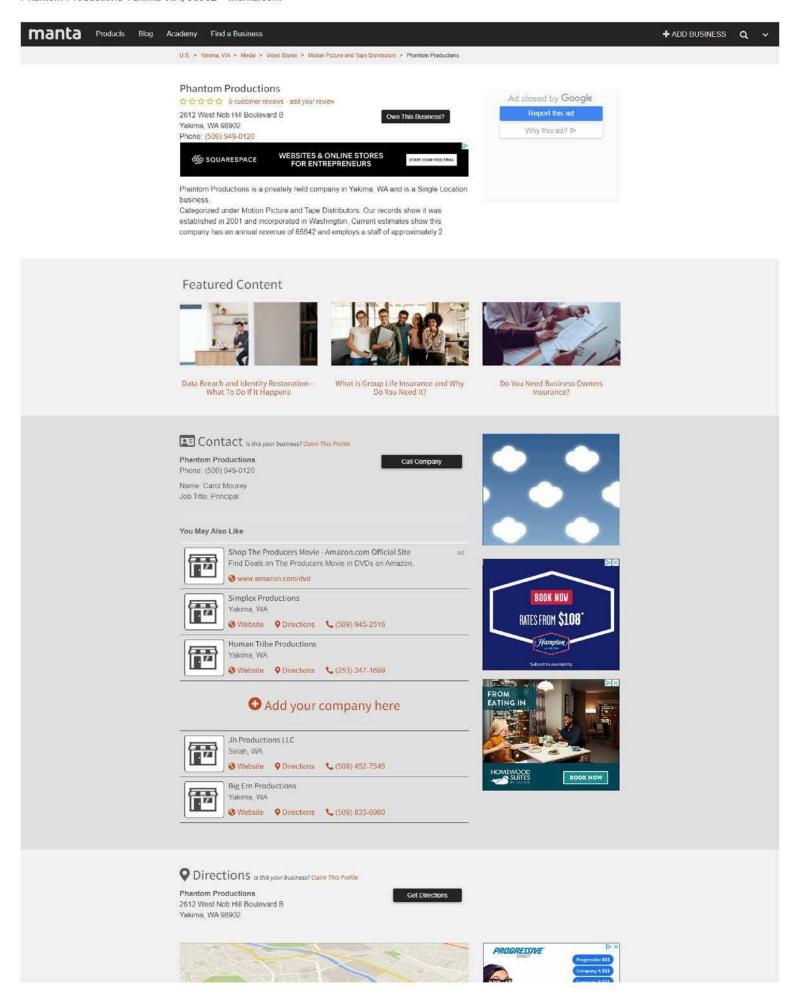
KLEB 2003592 AUTO 00000KT 3/45M BR VV001 02/00 A2986 RMK AD2 SLP117 T00220000 TAF

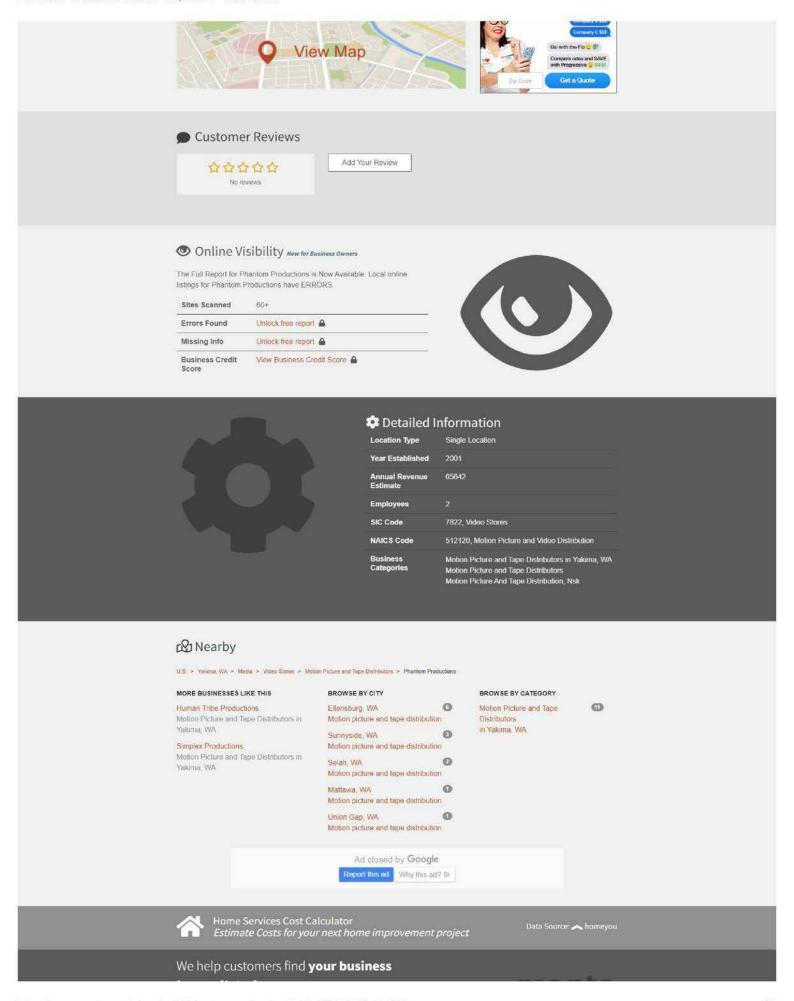
KLEB 1921022 1921/2018 00000KT P55M 5nm SW BK/N003 OVC025 FM200800 VRB02KT 1SM BR OVC003 NOTAMs

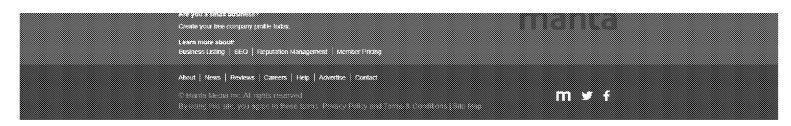
Click for the latest NOTAMs NOTAMs are issued by the DoD FAA and will open in a separate by AirNav.

https://www.airnav.com/airport/26NH[11/19/2019 11:00:18 PM]

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# **UPCOMING EVENTS**



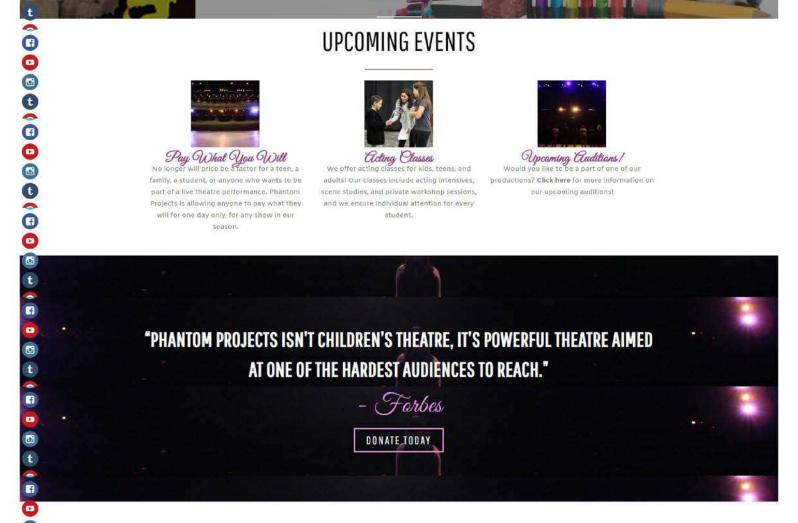
Pay What You Will
No longer will price be a factor for a teen, a family, a student, or anyone who wants to be part of a live theatre performance. Phantom Projects is allowing anyone to pay what they will for one day only, for any show in our



We offer acting classes for kids, teens, and adults! Our classes include acting intensives, scene studies, and private workshop sessions. and we ensure individual attention for every student.



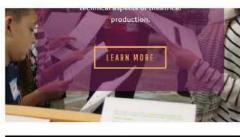
Upcaming Gudilians!
Would you like to be a part of one of our productions? Click here for more information on pur upcoming auditions!

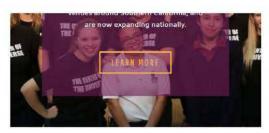






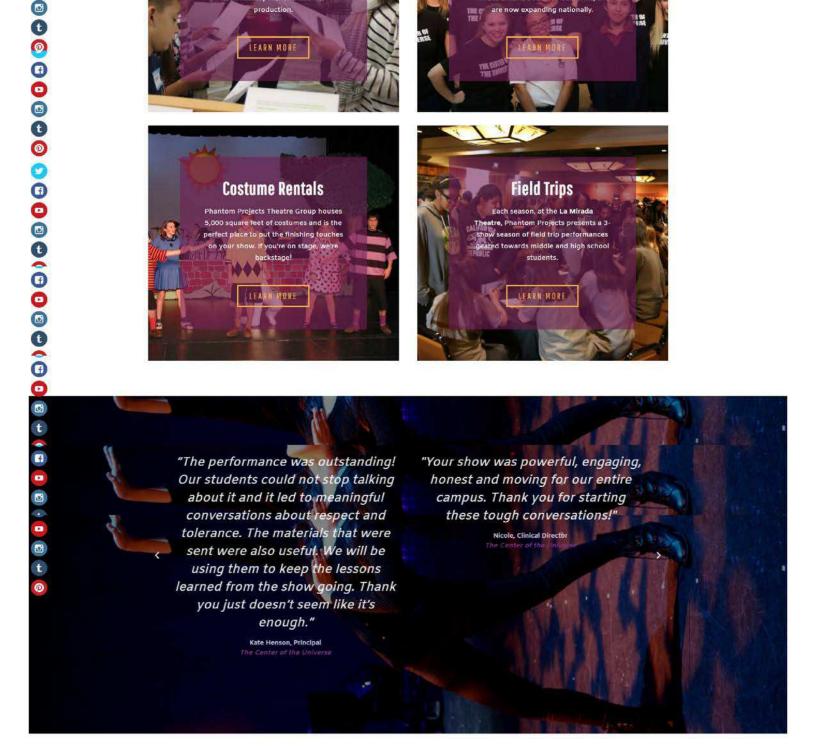


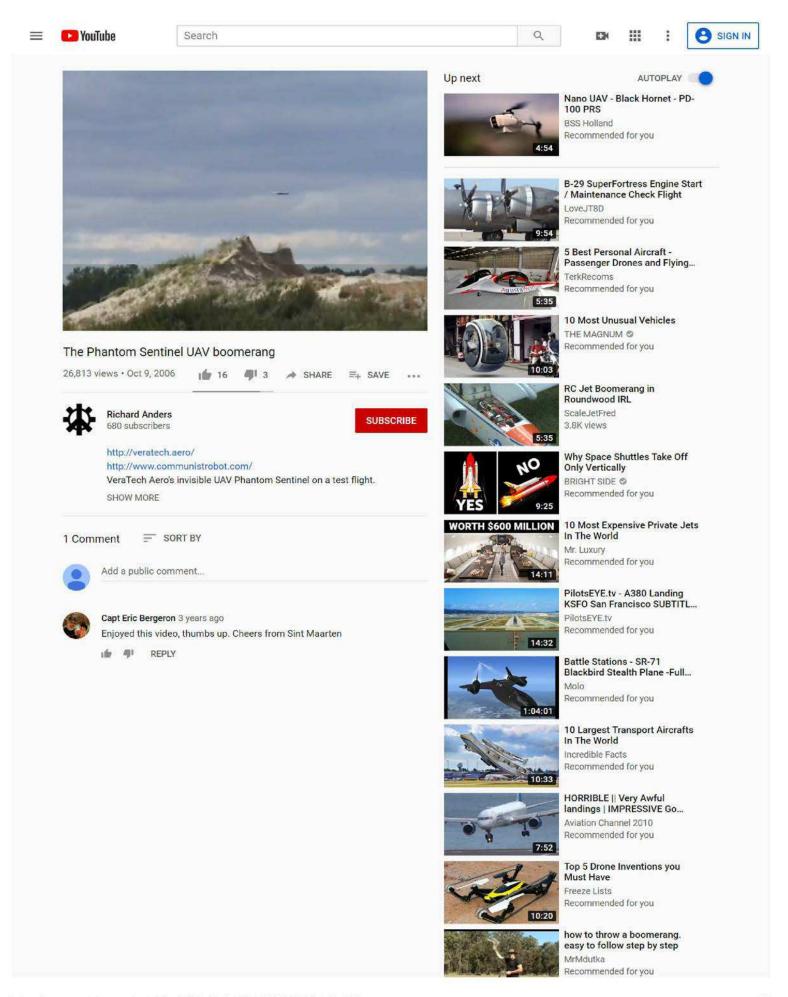


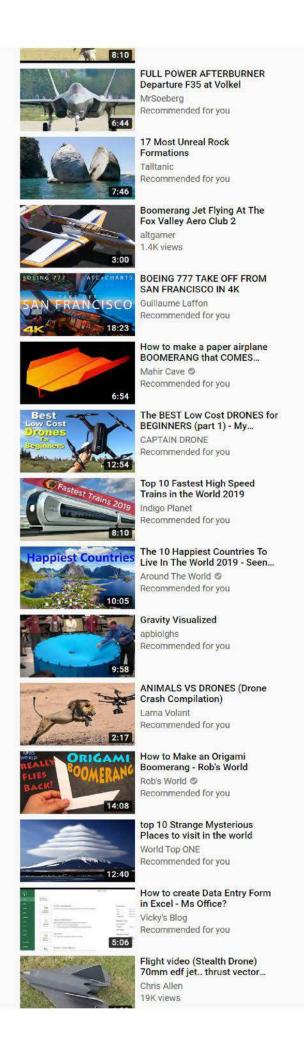




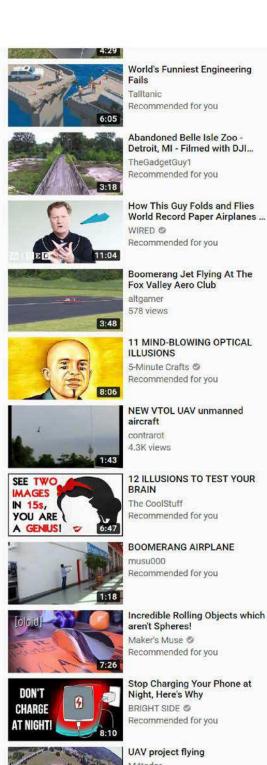














M4tador 38K views



Up All Night BRIGHT SIDE @ Recommended for you



Nuances of boomerang design / flight flyingscience Recommended for you



Sonny flying his new X-UAV Wing ravenhoodtech 1K views



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Let's Do This

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Amazing Round Logo

Akin The Computer Guy Recommended for you



## Honda's Asimo: the penaltytaking, bar-tending robot

Auto Express @

Recommended for you



## RC Boomerang Engine cut out

wibble1964

381 views



## ★ How to Get to Mars. Very

Cool! HD

Anders Heli Hansen Recommended for you



## 10 Secret Phone Features You'll Start Using Right Away

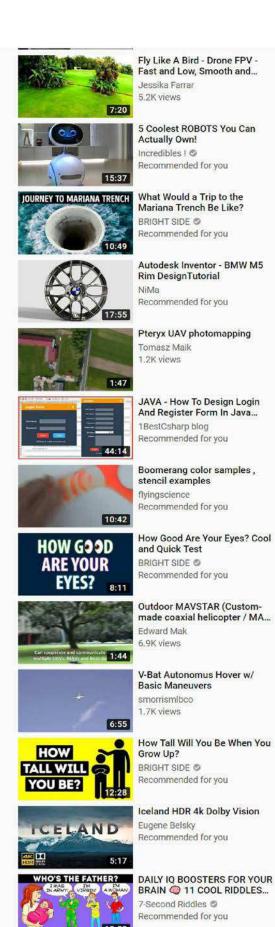
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## AeroVironment's Nano Hummingbird UAV - Without...

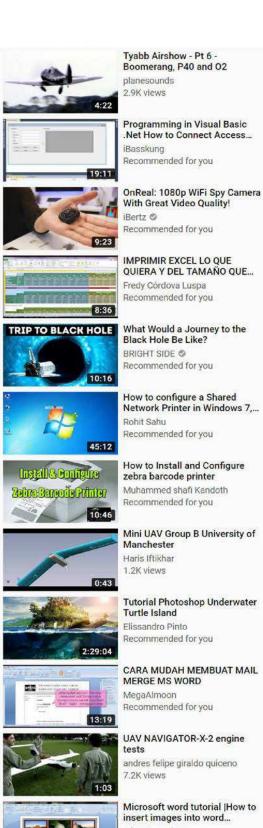
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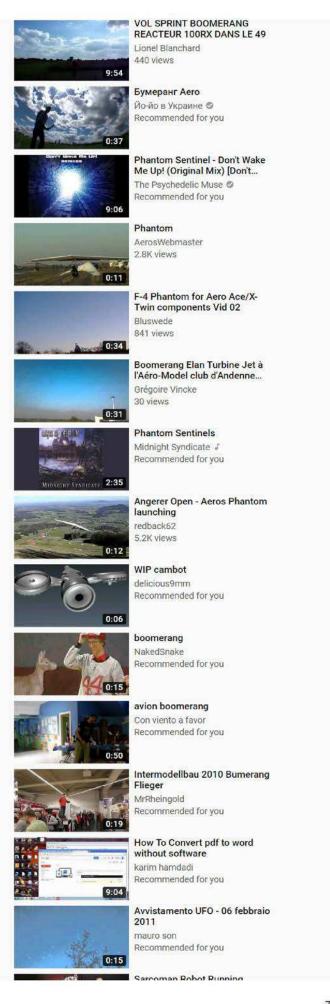
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## FLYING PHANTOM ULTIMATE

## Be daring

The Flying Phantom ULTIMATE offers the 18' catamaran that only Phantom could create, high performance and precise agile handling, with ultimate refinement.

The FP ULTIMATE is the result of Phantom International unrivaled experience in foiling beach catamarans combined with the benefits from the last ACSO developments in Bermuda during the America's Cup.



It was designed to be furthermore efficient on every point of sail, with upwind VMG up to 15% higher than foiling cat benchmark. The brief was clear: 100% foiling upwind with enhanced performance and stability and better foiling gybes. It is something that has never been achieved before on this type of boats.

Experience what performance feels like and to become an exclusive member of the Ultimate owners club (limited production).



KEY FEATURES





## 1. The hulls are lighter

The **hulls** are lighter and have less windage because the freeboard is lower. They have less drag at low speed which improves take off.



## 2. Dyneema membrane deck sweeper main and low aspect jib

The deck sweeper cut lowers the center of effort in the sail, thus providing more righting moment. This results in a more powerful sail but also makes flying much easier.



## 3. Outboard dagger boards

The daggerboards / foils reach outboard to increase righting moment which improves upwind foiling. The straight shaft and long tip result in better heave stability and the aspect ratio of the tip is higher, increasing the efficiency.



## 4. Stiffer rudders

The **rudders** have been optimized to improve the stiffness for better handling and control. They are longer to keep the elevator deeper in the water.



## 5. Larger rudder elevators

Now that the **foils** are more efficient we managed to increase the elevator area for the same overall drag, which results in better stability on every point of sail and in the manoeuvres and especially the foiling gybes. The shape of the **rudder elevators** is also more efficient, with wing tips to reduce induced drag and smooth shaft / elevator junction to reduce pressure drag.





TECHNICAL SPECS

Design team Phantom Int & Gonzalo Redondo 03

Consultants Benjamin Muyl. Franck Cammas

Length 5.5m/ 18'

Width 3m Weight 155kg

Mast 9.6m/Tapered/Pre preg carbon with high modulus cured in autoclave

Beams Carbon

Daggerboards Pre-preg high modulus carbon cured in autoclave/ 1,45m draught (max)

Rudders Pre-preg high modulus carbon cured in autoclave/

Rudder elevators Pre preg carbon cured in autoclave/ 443 cm2

**Hulls** Pre-preg carbon, nomex honey comb sandwich cured at high temperature

Mainsail Decksweeper/ Dyneema membrane/ 18,5 m2 with

Jib Low aspect ratio/ Dyneema membrane/ 4.5 m2

Gennaker Mast head/ Polyester/ 24 m2

PRICE LIST

Flying Phantom ULTIMATE, ready to sail

Includes White hulls with EVA pro grip, DECKSWEEPER main, and polyester Code D (white, red, blue or black)

## **OPTIONS & ACCESSORIES**

Colored hulls (red. blue, yellow, black, grey)

1401 €

Team edition 2018 design

4500 €\*

Beach trolley

979 €\*

EVA stern checks (set of 2)

616 €'

Bags (rudders, elevators, daggerboards, spreaders)

517 €

Set of boat covers (platform, spinnaker chute, foil tips)

1287 €

\*Valid from November 1st 2018, prices in euros, ex-tax, exfactory Dinard/ France

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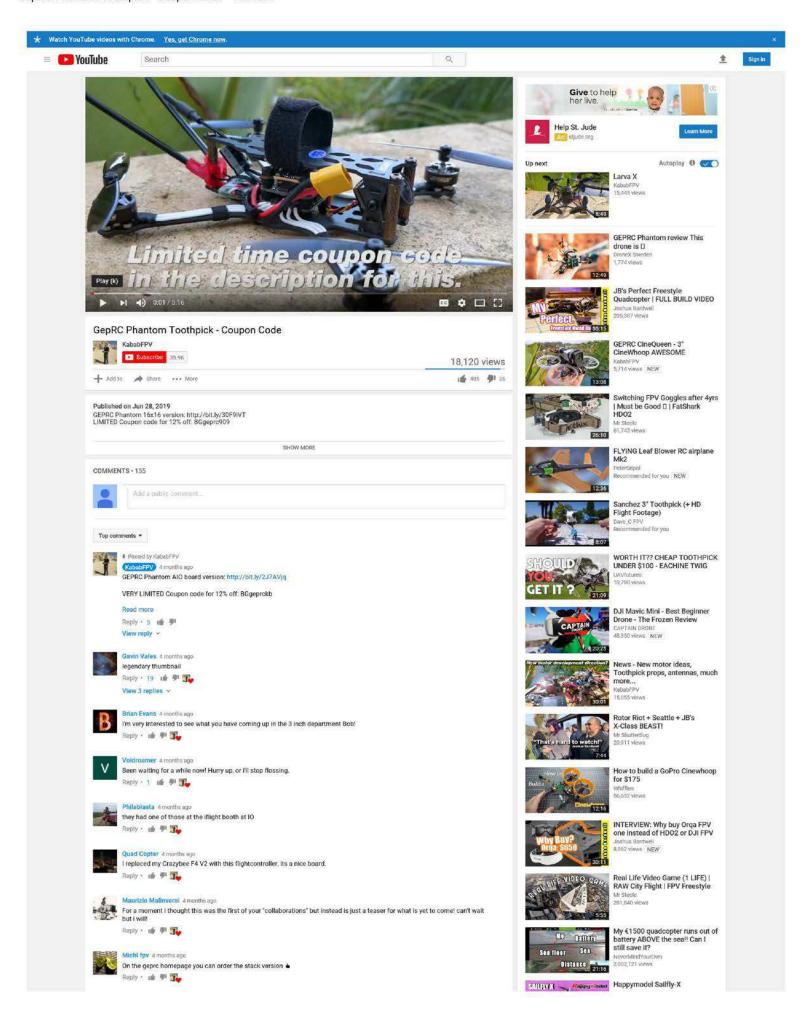


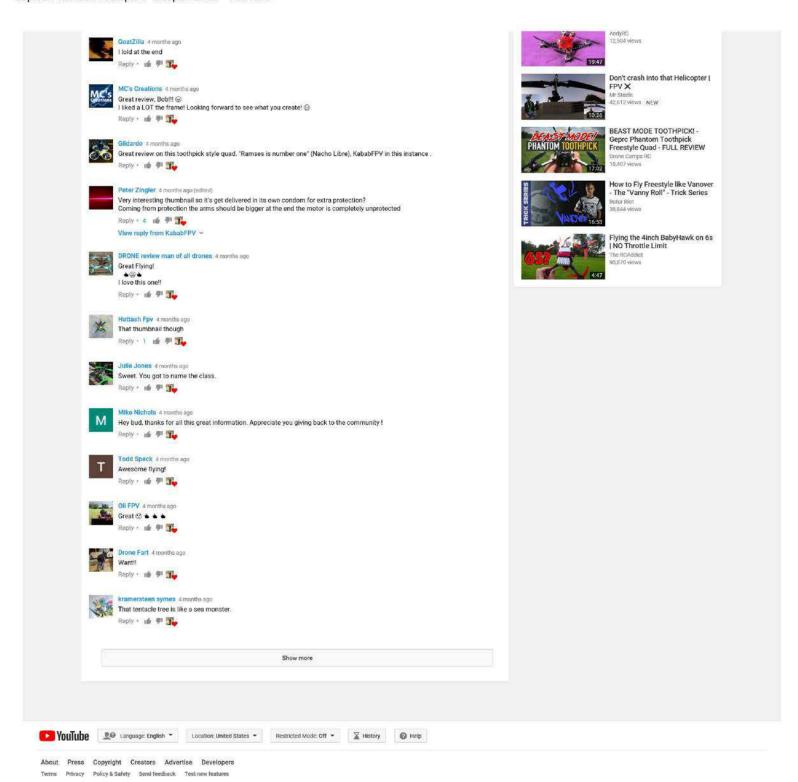
hantom International 40 rue des Frères Boussac, 35800 Dinard, FRANCE, +33-2 99-56-06-58, contactiéphantom international com

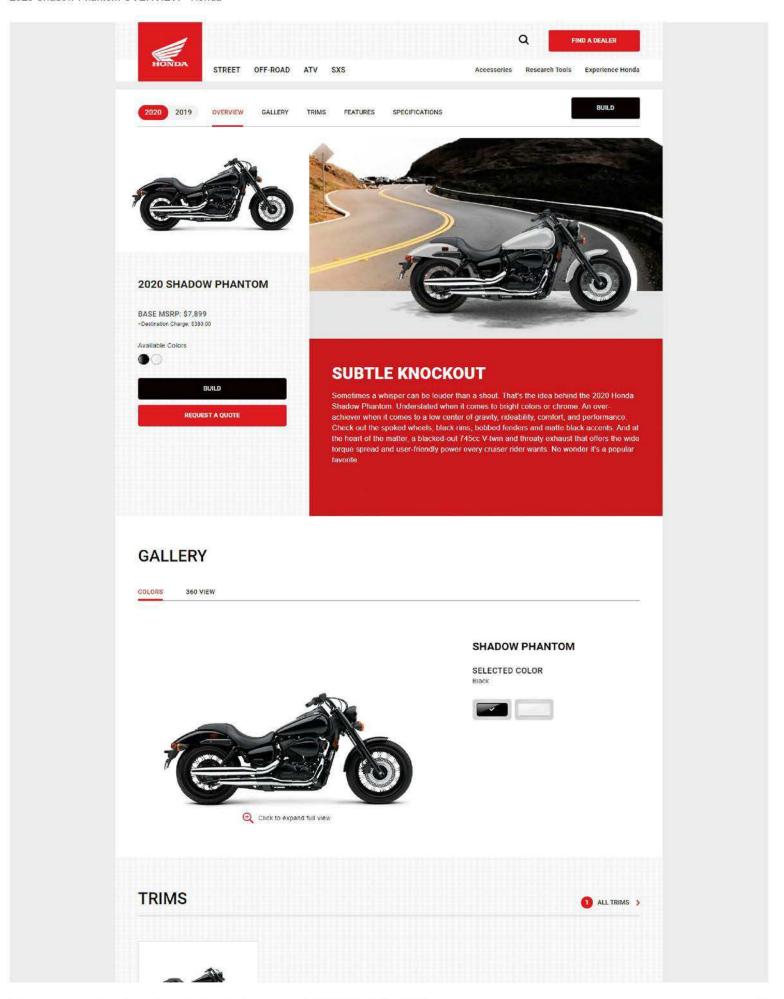


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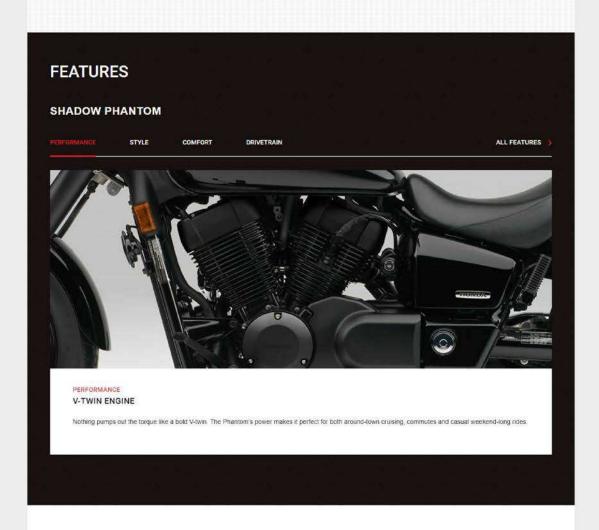
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## **SPECIFICATIONS**



## **SHADOW PHANTOM**

9.6.1

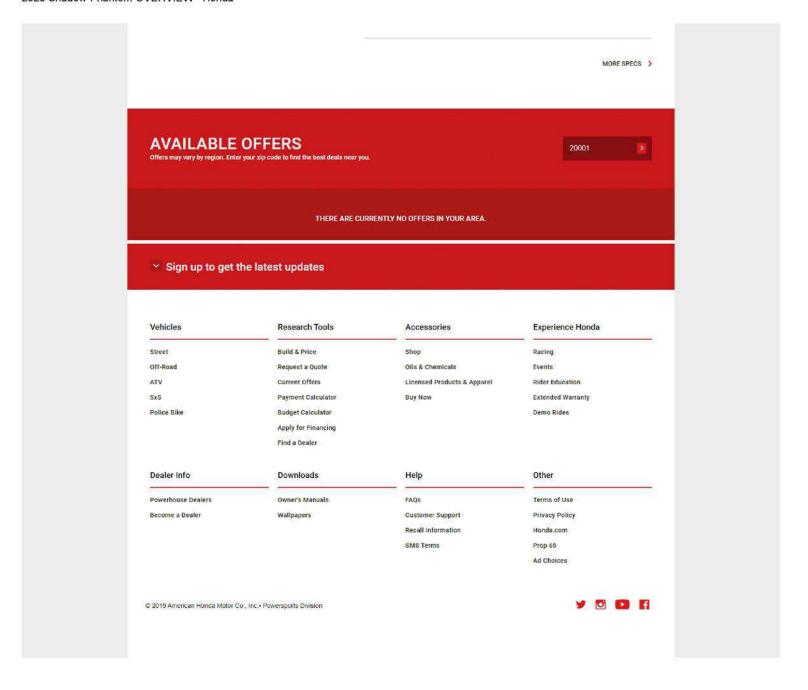
Engine Type
745cc liquid-cooled 52\* V-twin

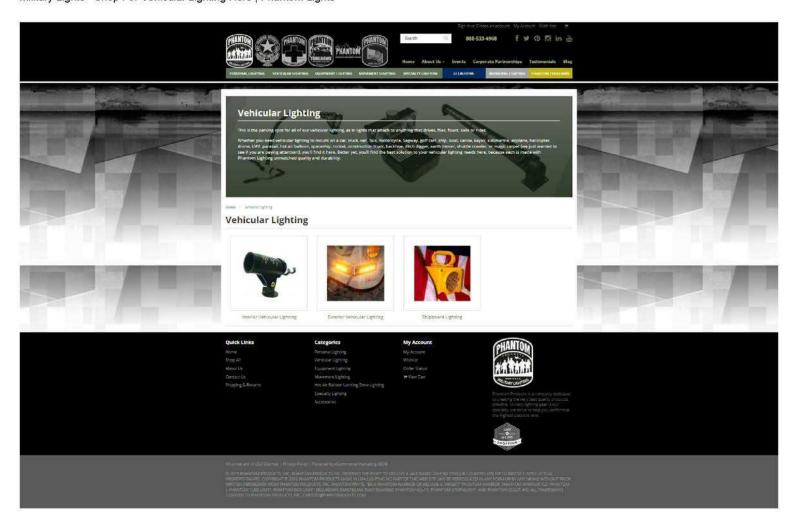
Bore And Stroke
79mm x 76mm

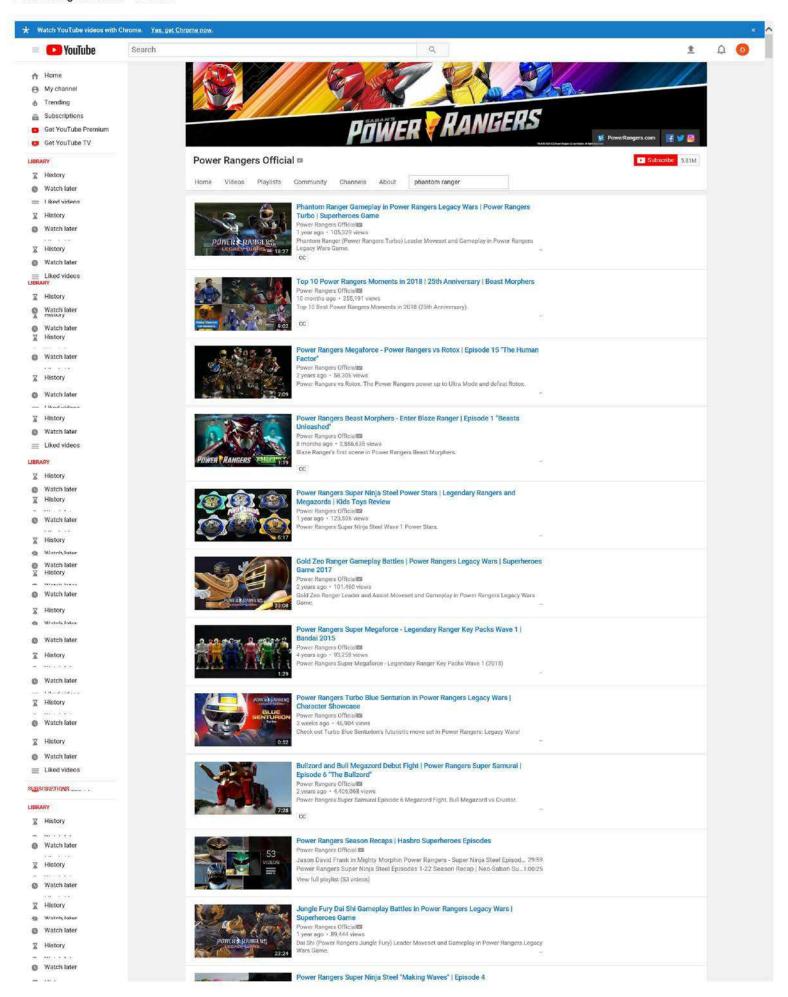
Induction
PGM-FI with automatic enrichment circuit, one 34mm throttle body

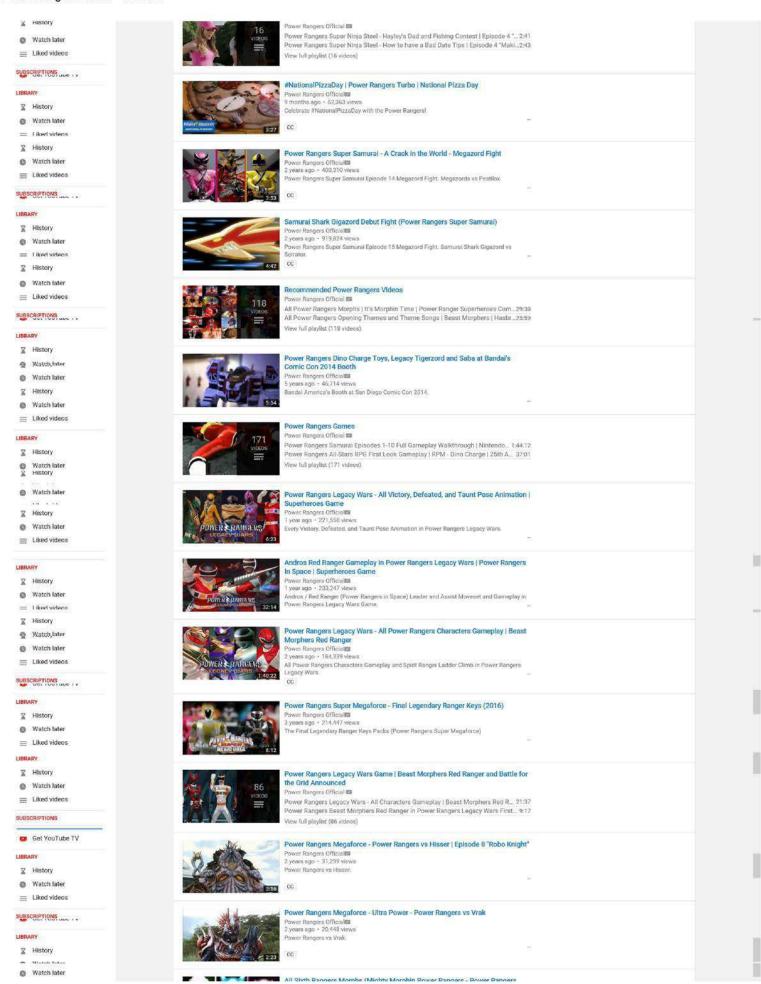
Ignition
Digital with 3-D mapping, two spark plugs per cylinder

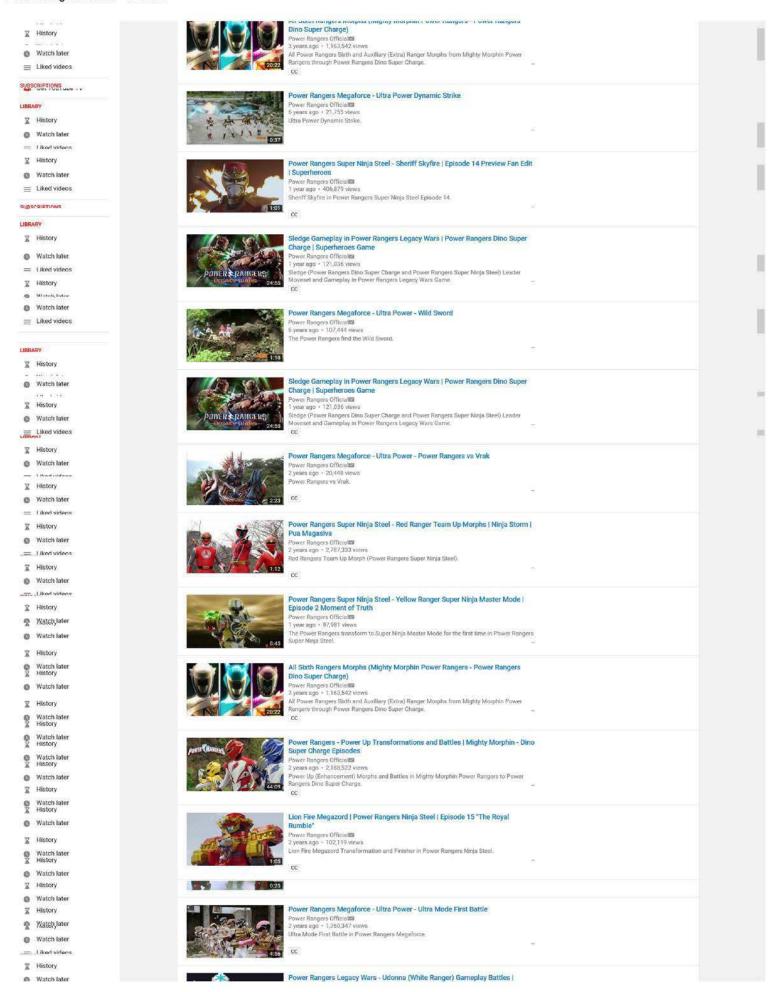
Compression Ratio

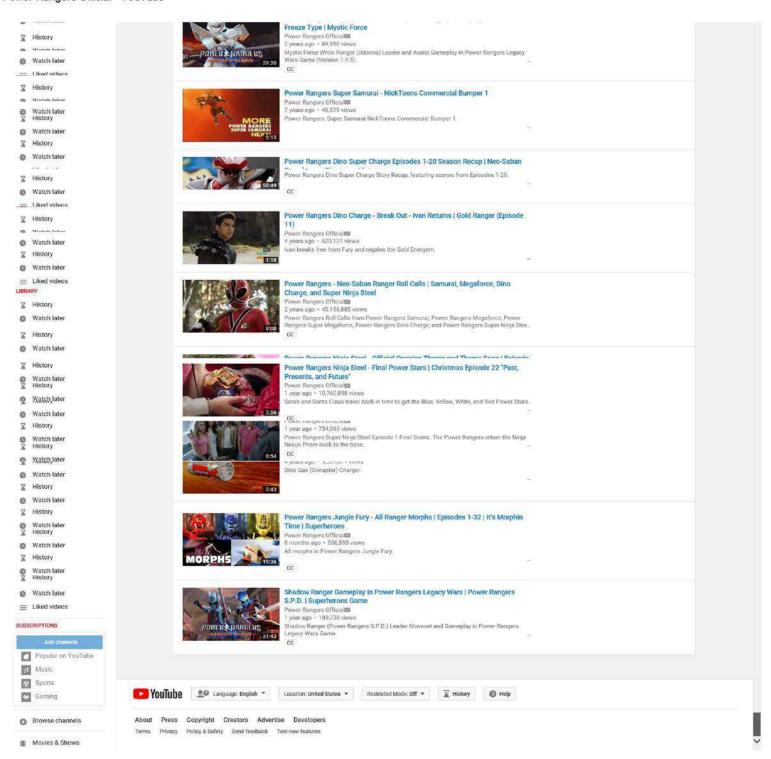














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\* Equipment > Military Aircraft > Air Force Aircraft

# **QF-4 Aerial Target**



















## **Equipment Categories**

- Army Equipment
- Navy Equipment
- · Air Force Equipment
- Marine Corps Equipment
- · Coast Guard Equipment
- Electronics
- Military Aircraft

- Military Vehicles
- Ordnance
- Personal Equipment
- · Ships and Submarines
- Special Operations Equipment
- Weapons



QF-4 Aerial Target

## Categories

Air Force Aircraft, Air Force Equipment, Drones, Military Aircraft

Manufacturer: BAE Systems

Services: United States Navy, United States Air Force

Power plant: Two General Electric turbojet engines with afterburners

Speed: 1,600 mph (Mach 2)

Range: 1,300 miles

The supersonic QF-4 is a reusable full-scale, remotely piloted aerial target modified from the F-4 Phantom fighter jet. The QF-4 provides a realistic full-scale target for air-to-air weapons system evaluation, development and testing at Tyndall Air Force Base, Fla., and Holloman AFB, N.M.

The QF-4 is a remotely controlled target, which simulates enemy aircraft maneuvers. The aerial target can be flown by remote control or with a safety pilot to monitor its performance. The QF-4 is flown unmanned when missiles are fired at it, and only in specific over-water airspace authorized for unmanned flight. When flown unmanned, an explosive device is placed in the QF-4 to destroy the aircraft if it inadvertently becomes uncontrollable.

The QF-4 is equipped to carry electronic and infrared countermeasures to fully evaluate fighters and weapons flown and fired against it. Full-scale aircraft can be flown totally by computer, or controlled manually during takeoff and landing using a mobile control station located at the runway. As a safety precaution, a

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Soldiers Test Lockheed

chase plane trails the QF-4 during critical periods of flight.

First flown in May 1958, the Phantom II originally was developed for U.S. Navy fleet defense and entered service in 1961. The Air Force evaluated it as the F-110A Spectre for close air support, interdiction and counter-air operations. In 1962, U.S. Air Force version was approved. The Air Force's Phantom II was designated F-4C, and first flew May 27, 1963. Production deliveries began in November 1963.

The F-4 was the primary fighter-bomber aircraft in the U.S. Air Force throughout the 1960s and 1970s. F-4s also flew reconnaissance and "Wild Weasel" anti-aircraft missile suppression missions. Phantom II production ended in 1979.

The modified F-4 became the QF-4. It is the successor to the QF-106 in the Air Force aerial target inventory.

The aerial target fleet is operated and maintained by the 82d Aerial Targets Squadron, located at Tyndall AFB. The squadron is a subordinate unit of the 53rd Weapons Evaluation Group at Tyndall AFB. The 53rd WEG reports to the 53rd Wing at Eglin AFB, Fla. The QF-4 program attained initial operational capability in 1997.



Martin's Onyx Exoskeleton



Modern Day Marine 2019: Military.com's Matthew Cox speaks with Don Pride from Steiner eOptics



F-16 Sports New Targeting Pod in Flight

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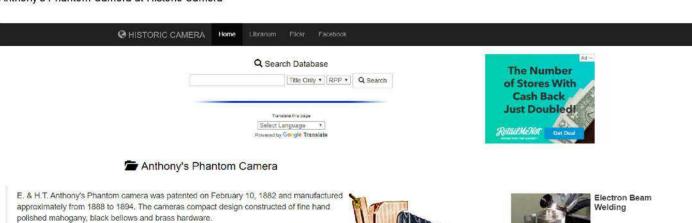
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Later models tried to introduce a unique reversible back in which the bellows were rotated while the front standard remained fixed. This action caused bellows wear and eventually damage. The book describes it as the invention consists in so attaching a bellows to the front part of the camera as to allow the bellows to turn or revolve, where by only the rear part of the camera needs to be loosened to change the position from vertical to horizontal or viceversa without altering the position of the front part of the camera, to which the lens is attached.









CLICK HERE for a list of Anthony Cameras.



## Anthony's Phantom Camera at Historic Camera

External Links:
Rob Niederman's Phantom Camera at AntiqueWoodCameras.com

# 365
2615-26-02 153125

Return to Previous Page
Return to the History Librarium

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### FAA INFORMATION EFFECTIVE 07 NOVEMBER 2019

### Location

```
FAA Identifier: 26NH
            Lat Long: 43-40-04.2000N 072-12-09.8000W
43-40.070000N 072-12 163333W
43-6678333,-72.2027222
         43.00/8333, /2.202/222
(estimated)
Elevation: 1275 ft. / 389 m (estimated)
From city: 3 miles W of LEBANON, NH
Time zone: UTC - 5 (UTC - 4 during Daylight Saving Time)
Zip code: 03766
```

### Heliport Operations

```
Heliport use: Private use. Permission required prior to landing
   Activation date: 09/2007
    Control tower no
ARTCC: BOSTON CENTER
FS: BANGOR FLIGHT SERVICE STATION
Attendance: UNATNDD
Wind indicator: yes
Segmented circle: no
```

### **Heliport Communications**

WX ASOS at LEB (5 nm SW): 118.65 (603-298-8780)

### Nearby radio navigation aids

VOR radial/distance	VOR name	Freq	Var
LEB at field	LEBANON VOR DME	113.70	15W
MPVs173/27.2	MONTPELIER VOR/DME	110.80	16W
CONr330/38.3	CONCORD VOR DME	112.90	15W

NDB name	Hdg/Dist	Freq	Var	ID	
HANOVER	223/2.3	276	15W	LAH	
CLAREMONT	038/19.4	233	16W	CNH	
SMUTO	109/32 8	221	15W	DYO	

### Heliport Services

### Runway Information

### Helipad H1

Dimensions: 40 x 40 ft. / 12 x 12 m Traffic pattern: left left

### Heliport Ownership and Management from official FAA records

Ownership: Privately-owned Owner: HENRY K. WAKEMAN III 9 LAUREL ST 9 LAUREL ST.
ETNA, NH 03750
Phone 603-359-3174
Manager HENRY K WAKEMAN III
9 LAUREL ST. ETNA, NH 03750 Phone 603-359-3174

### Heliport Operational Statistics

Aircraft based on the field: 1 Helicopters: 1

### Additional Remarks

CONTACT LEBANON ATCT WHEN CONDUCTING OPNS.

FOR CD CTC BOSTON ARTCC AT 603-879-685

### Instrument Procedures

There are no published instrument procedures at 26NH.

Some nearby airports with instrument procedures;

KLEB - Lebanon Municipal Airport (5 nm SW) 2B3 - Parlin Field Airport (17 nm S) KCNH - Claremont Municipal Airport (19 nm S) KVSE - Hartness State Airport (Springfield) (24 nm SW) 5B9 - Dean Memorial Airport (26 nm N)

### Would you like to see your business listed on this page?

If your business provides an interesting product or service to pilots, flight crews, aircraft, or users of the Phantom Two Heliport, you should consider listing it here. To start the listing process, click on the button below

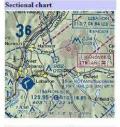
### Other Pages about Phantom Two Heliport





Road maps at: MapQuest Bing Google





## to Phantom Two Heliport? Find the

tance to fly



Sunrise and sunset

	(UTC-5)	(UTC
Marning civil twilight	06(18	11:11
Sunrise	06:49	11:4
Sunset	16:19	21:1
Evening civil tryllight	16:51	21:5

## Current date and time

Zulu (UTC) Local (UTC-5)

## METAR

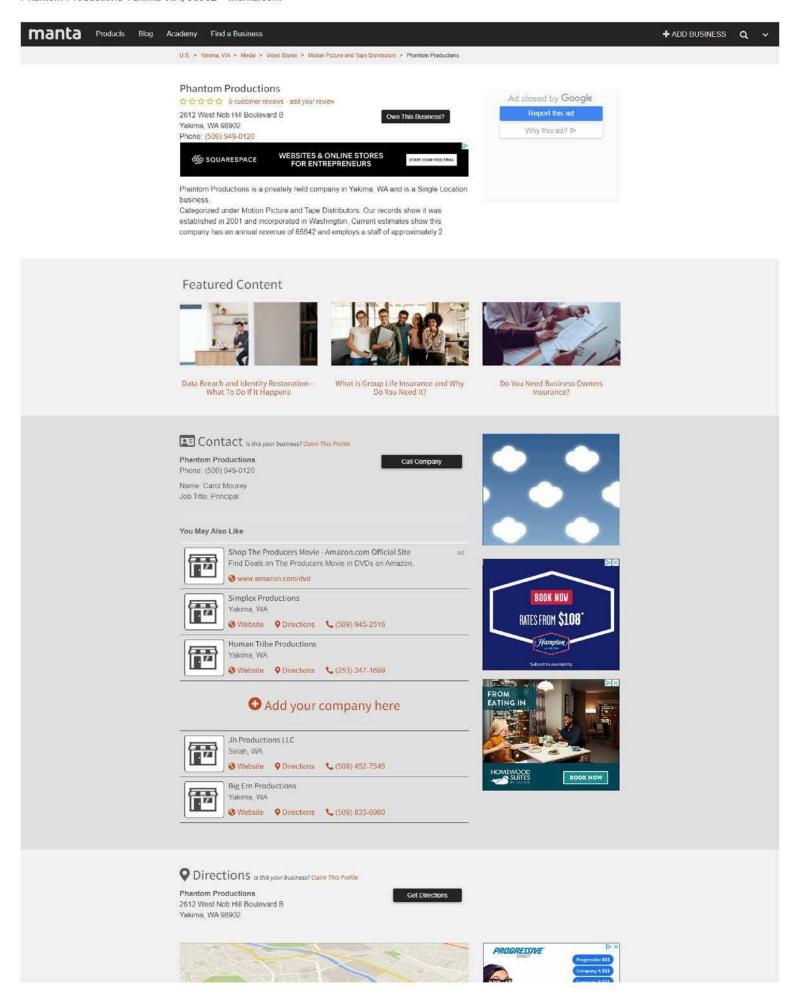
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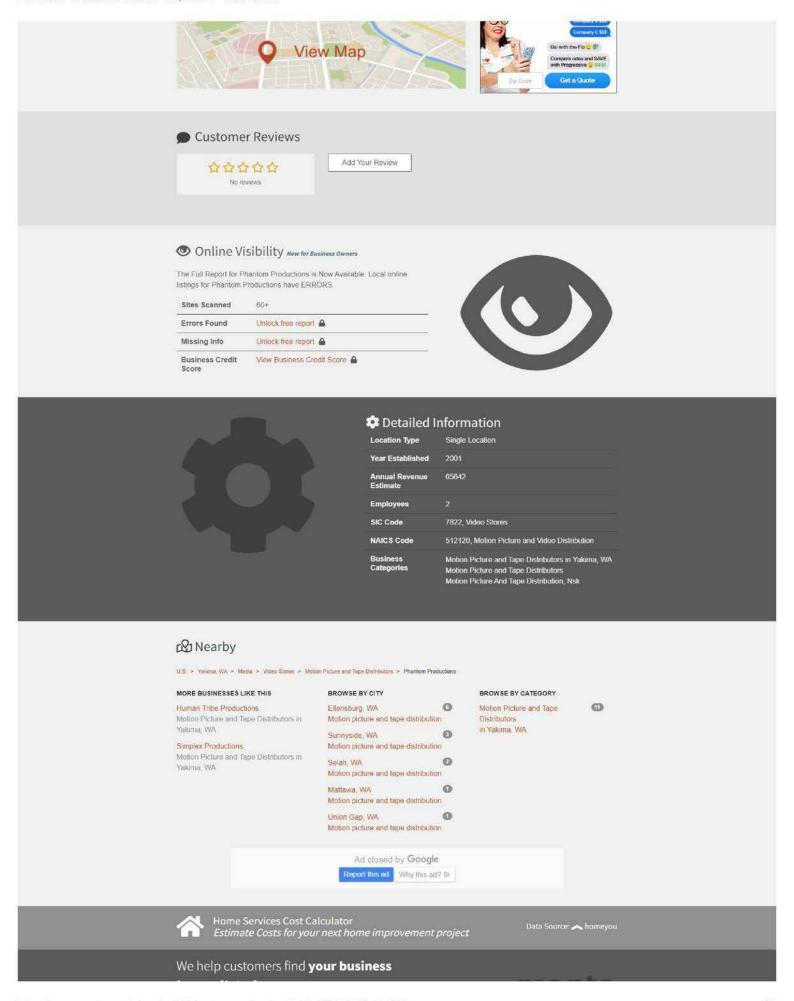
KLEB 1921022 1921/2018 00000KT P55M 5nm SW BK/N003 OVC025 FM200800 VRB02KT 1SM BR OVC003 NOTAMs

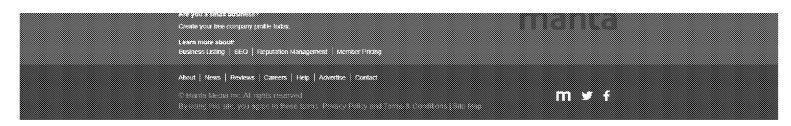
Click for the latest NOTAMs NOTAMs are issued by the DoD FAA and will open in a separate by AirNav.

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# **UPCOMING EVENTS**



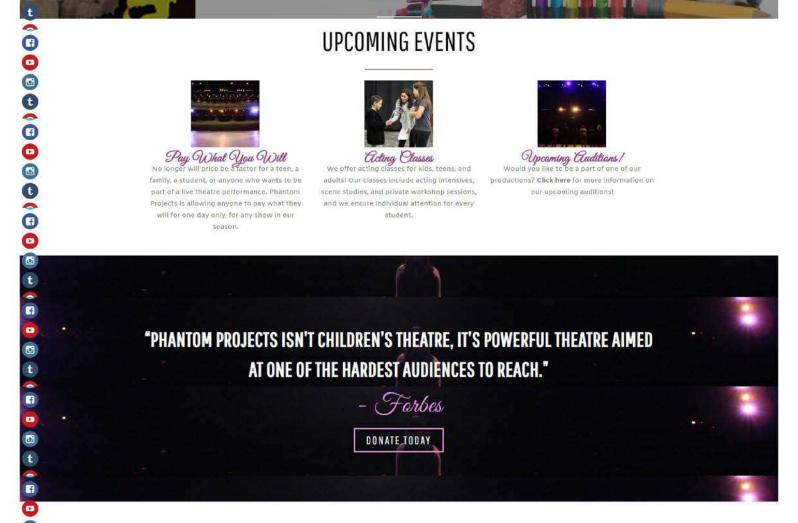
Pay What You Will
No longer will price be a factor for a teen, a family, a student, or anyone who wants to be part of a live theatre performance. Phantom Projects is allowing anyone to pay what they will for one day only, for any show in our



We offer acting classes for kids, teens, and adults! Our classes include acting intensives, scene studies, and private workshop sessions. and we ensure individual attention for every student.



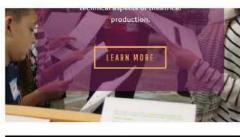
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Would you like to be a part of one of our productions? Click here for more information on pur upcoming auditions!

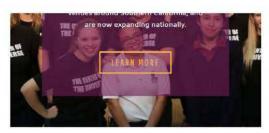






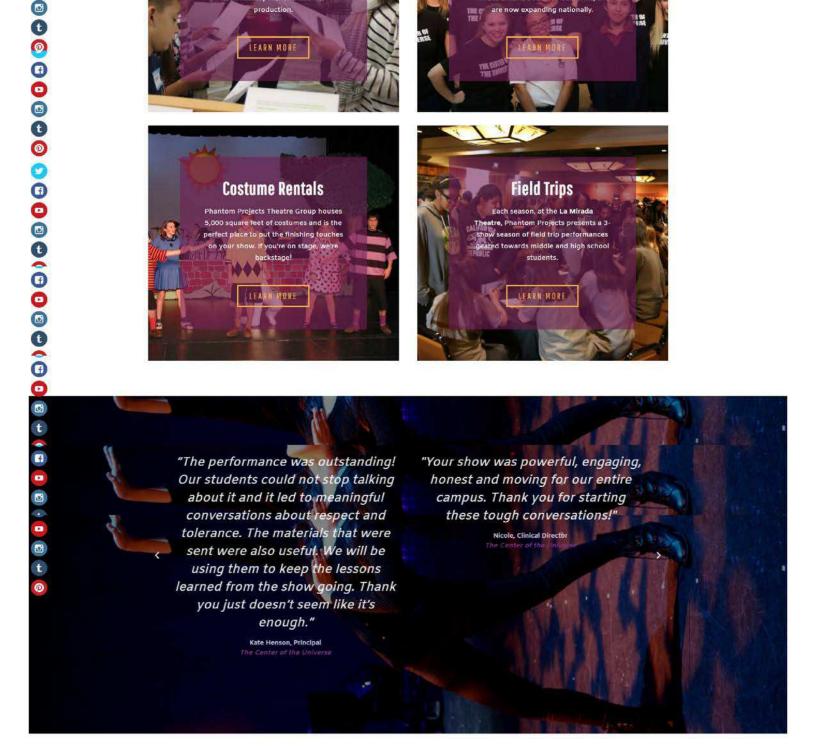


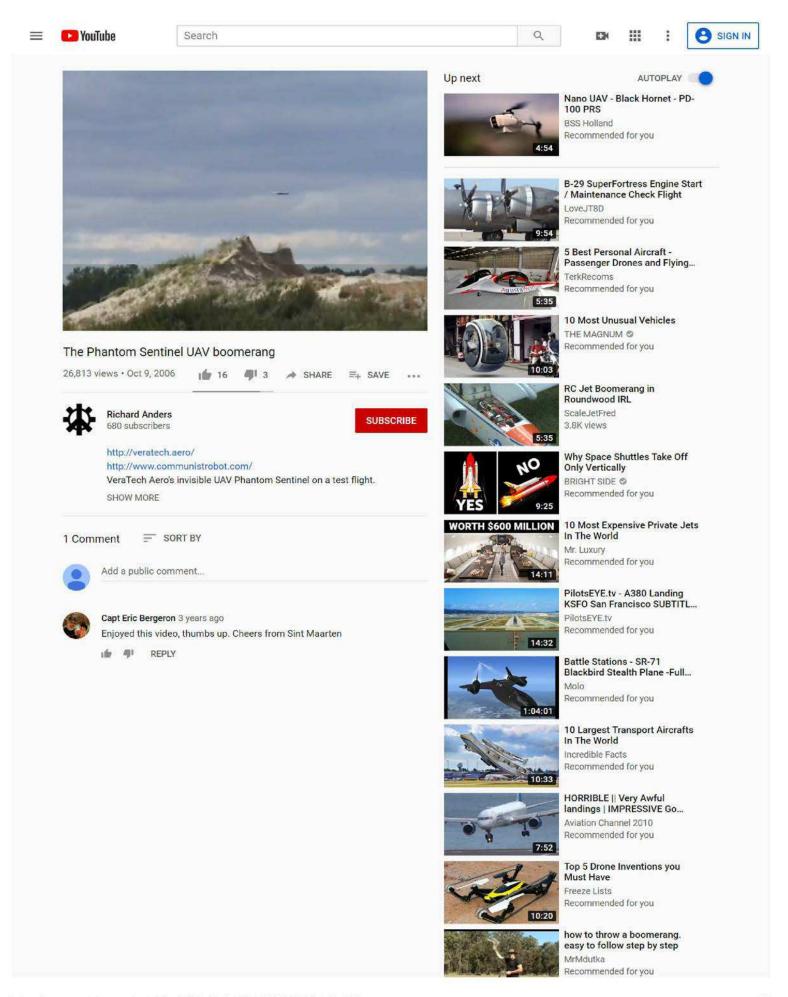


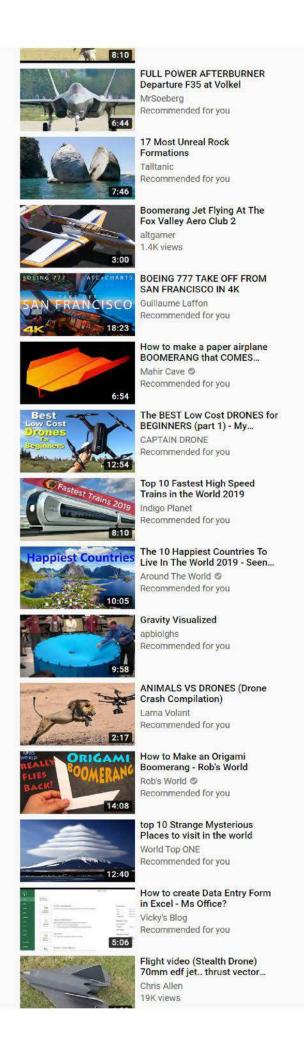




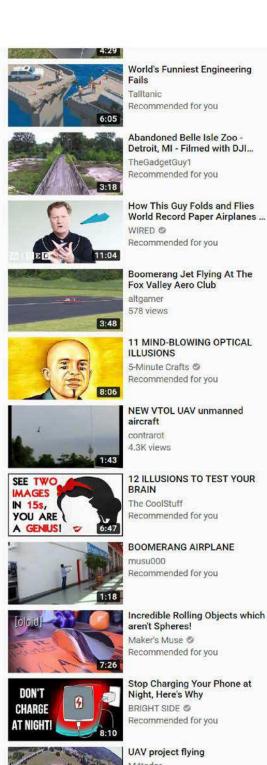














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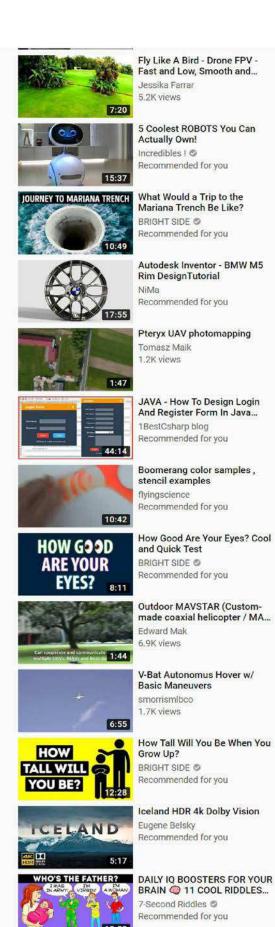
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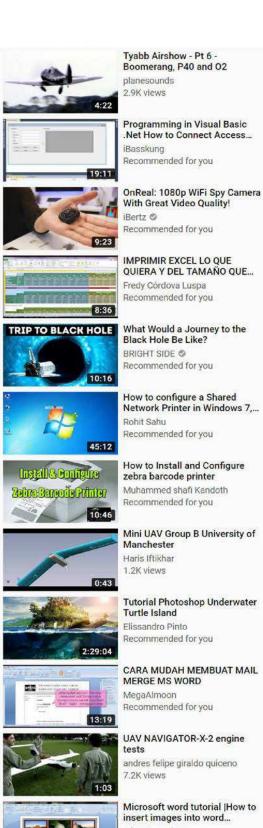
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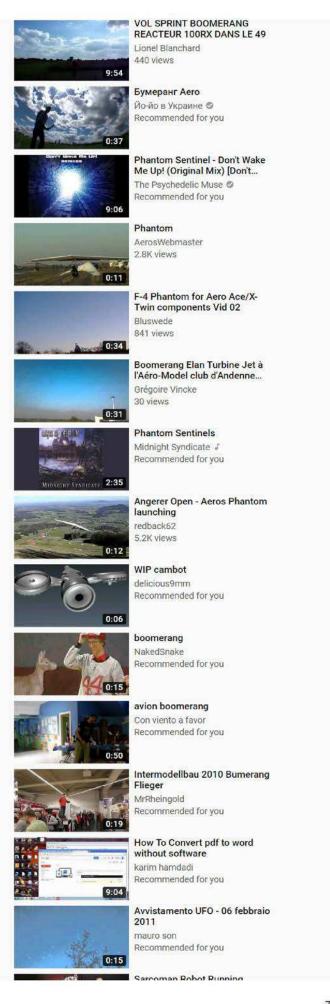
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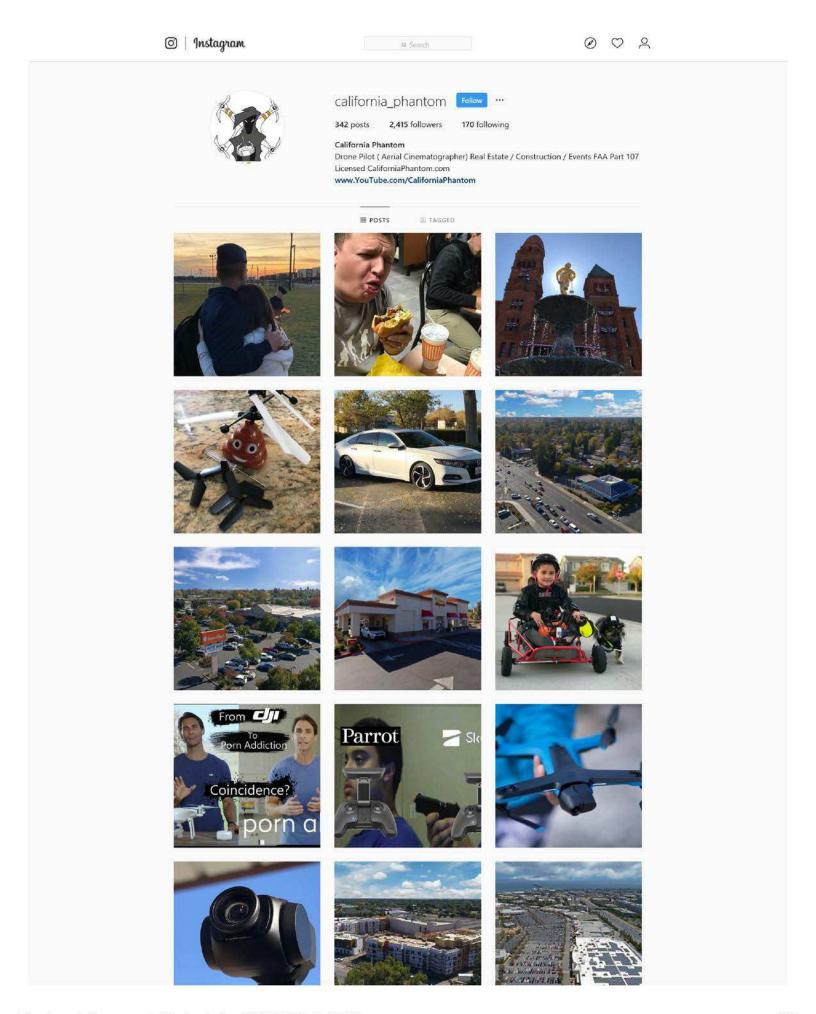


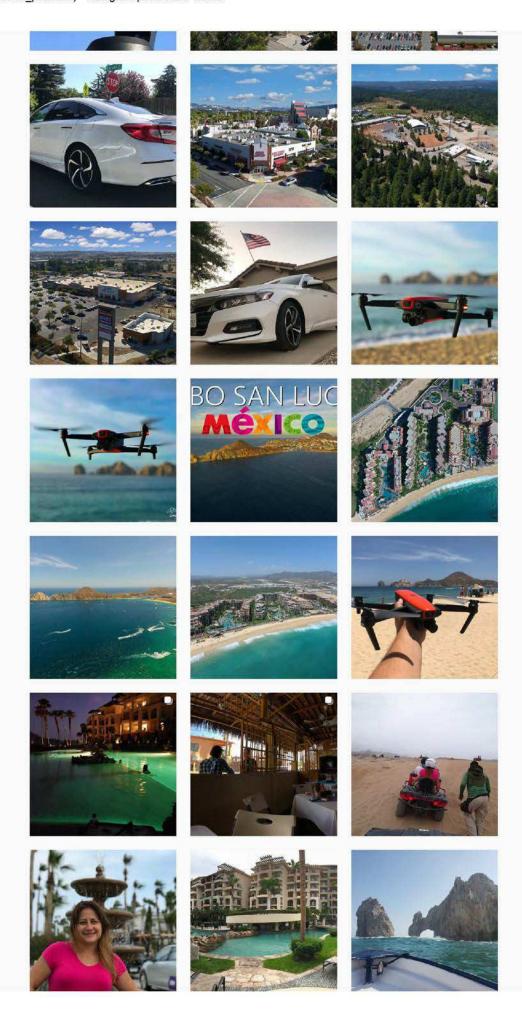
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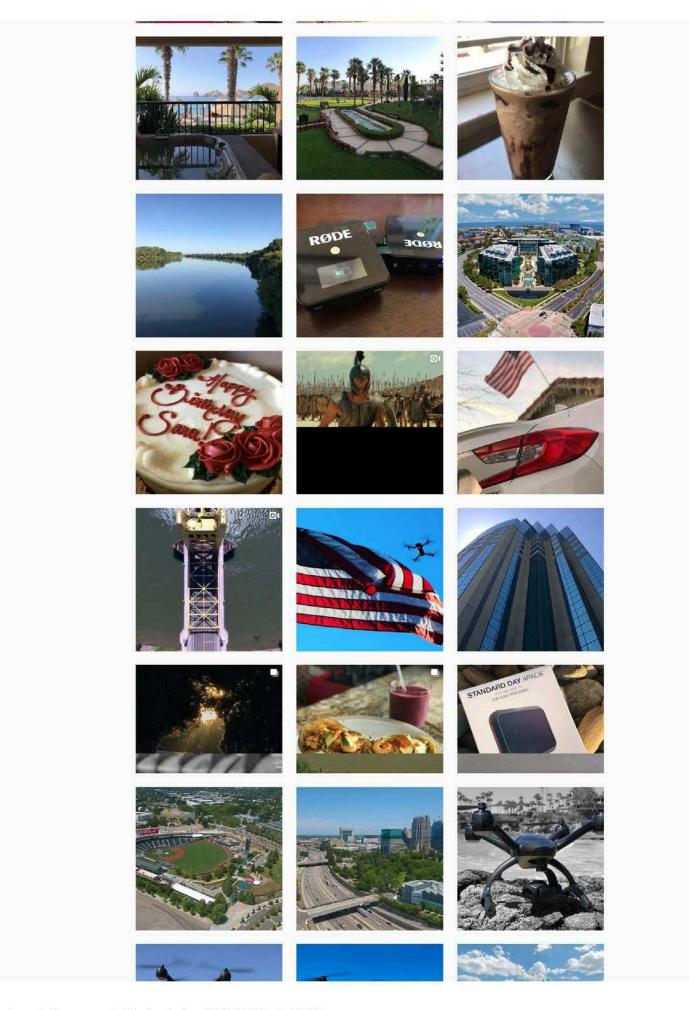
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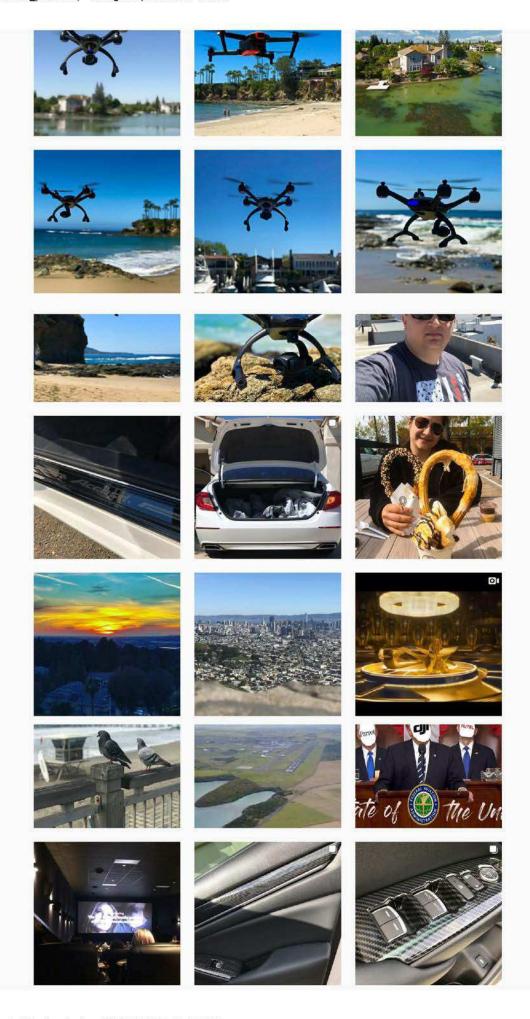
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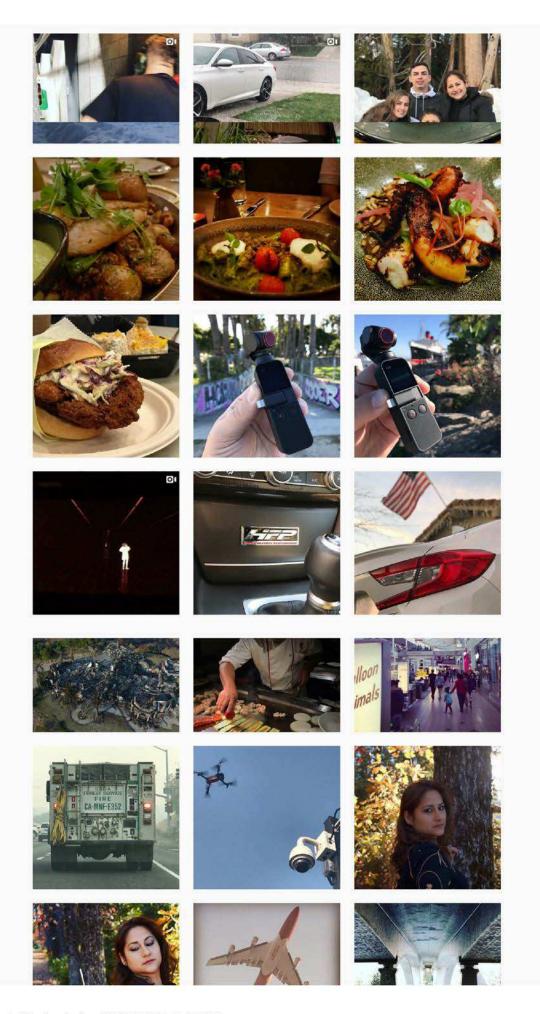
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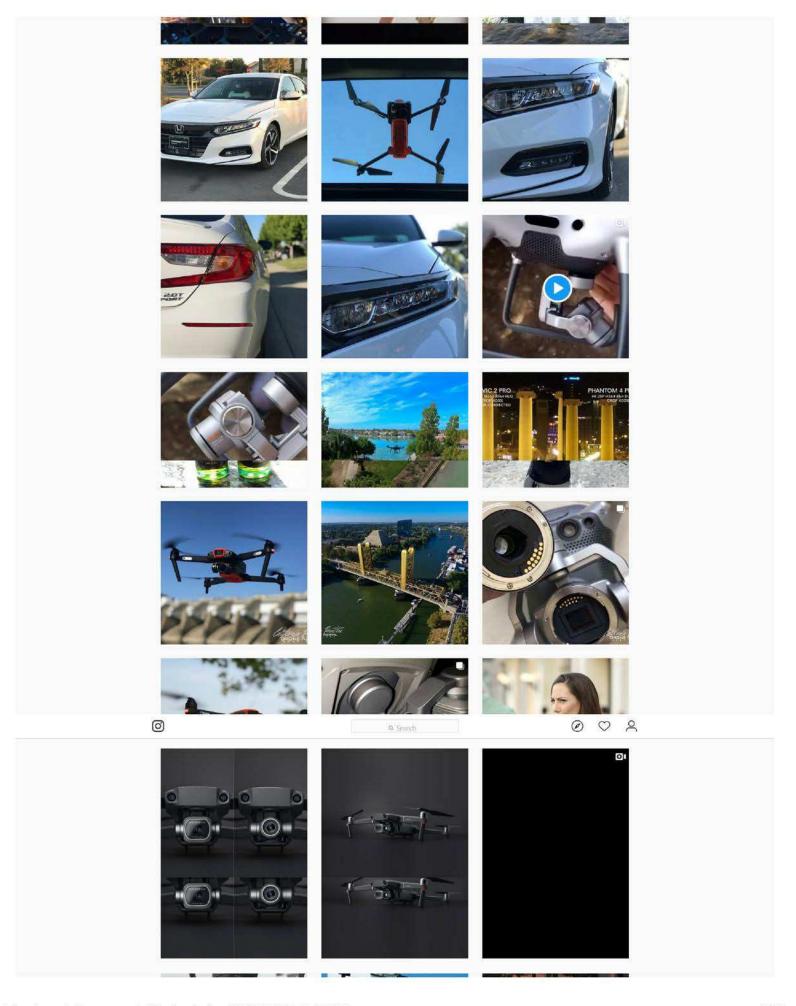


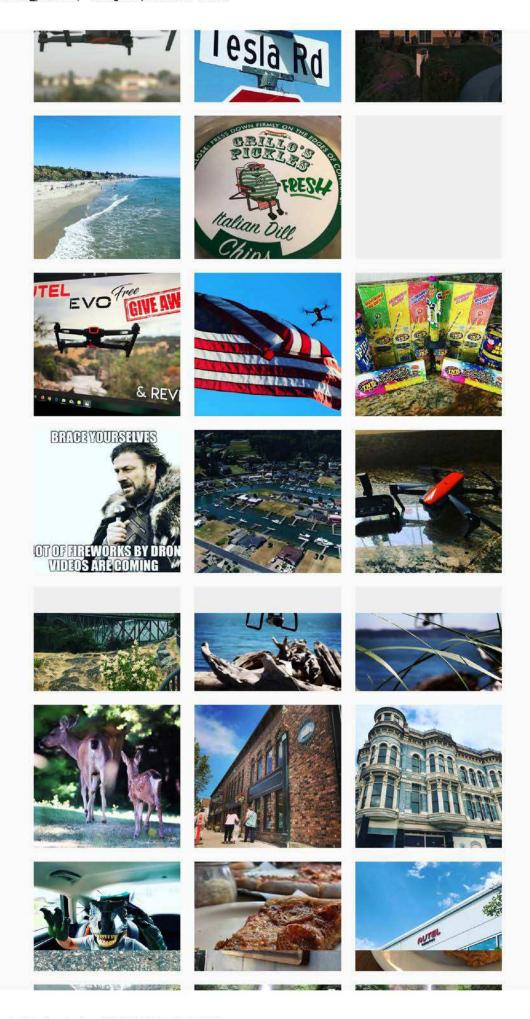


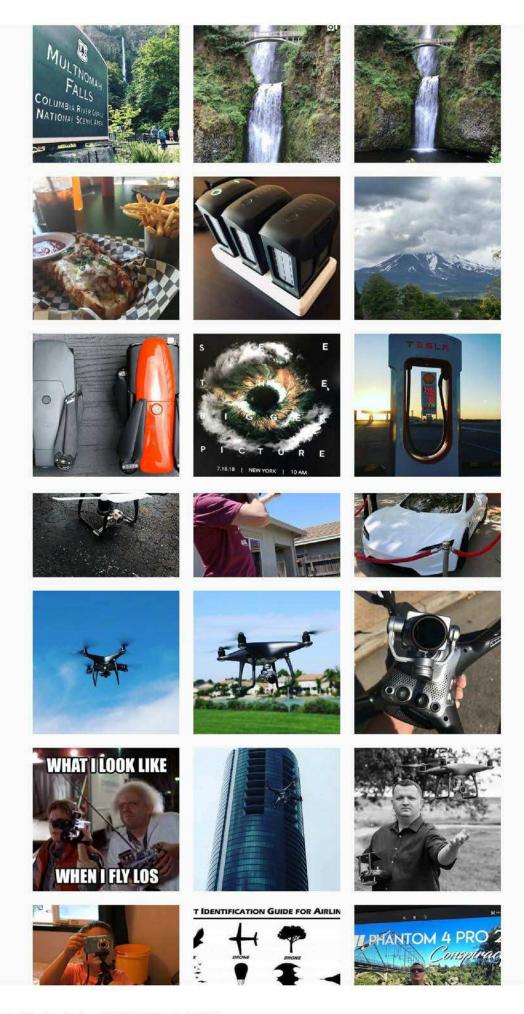


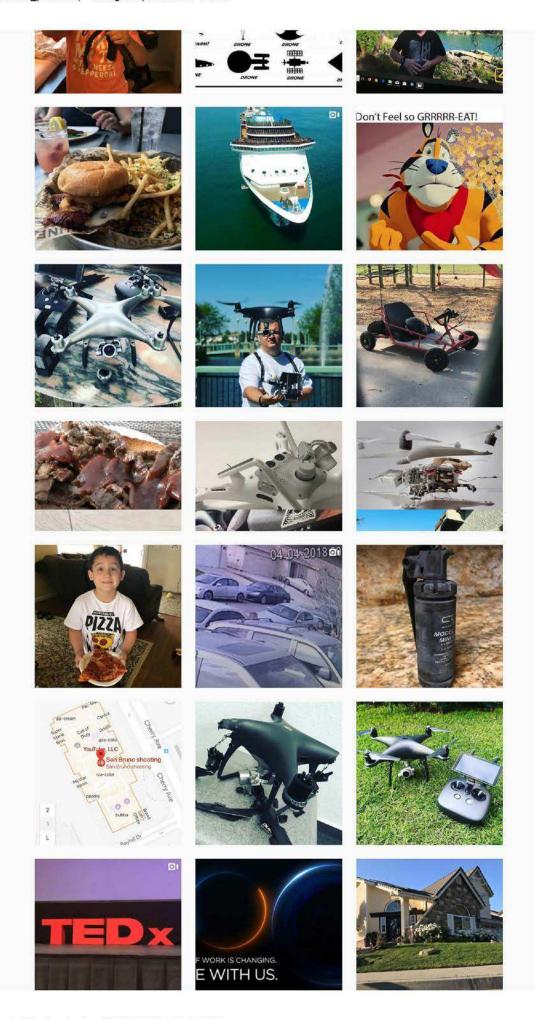


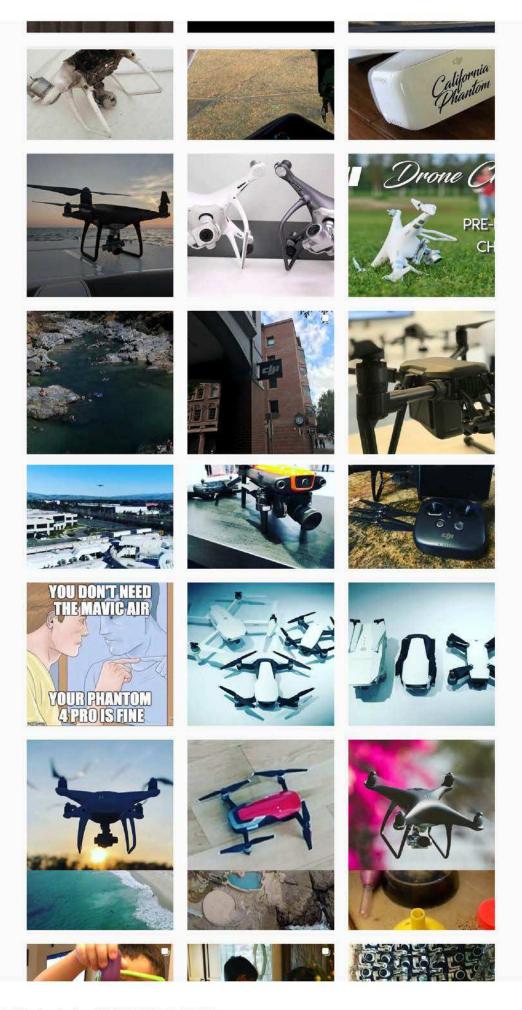


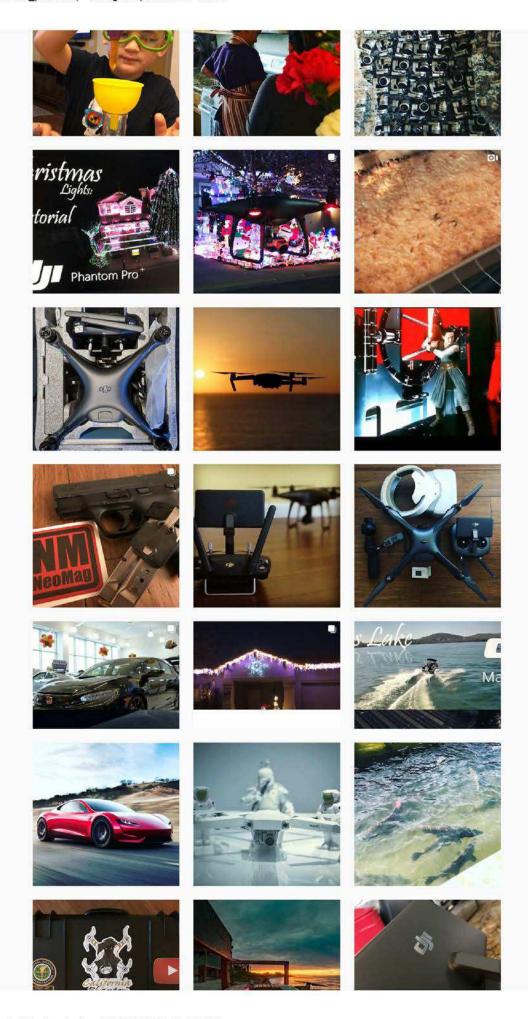


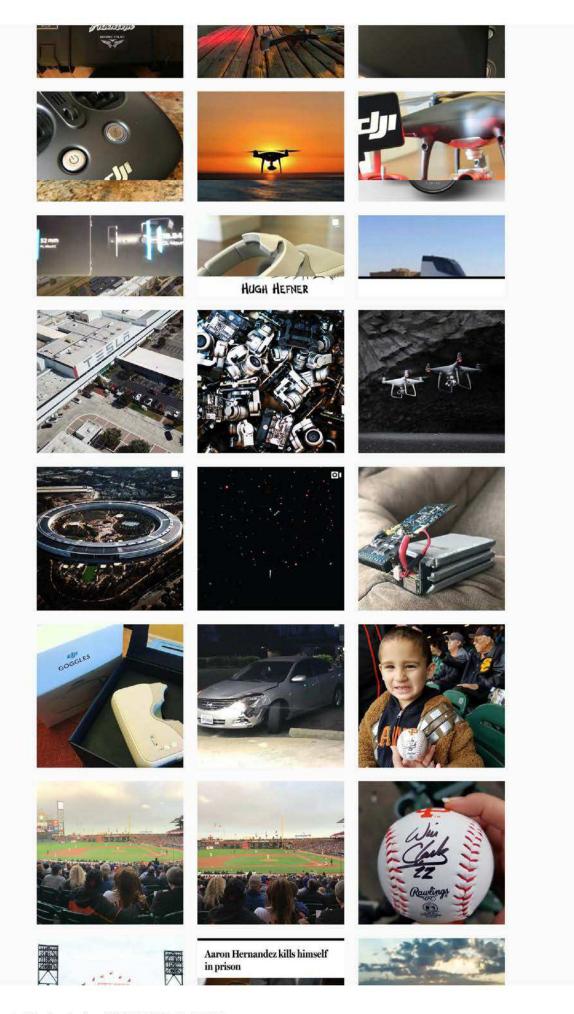


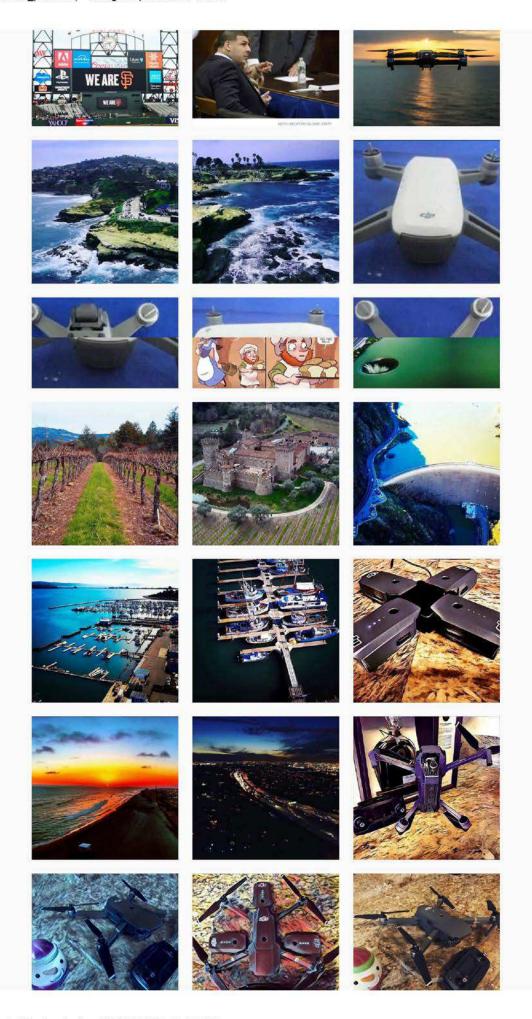




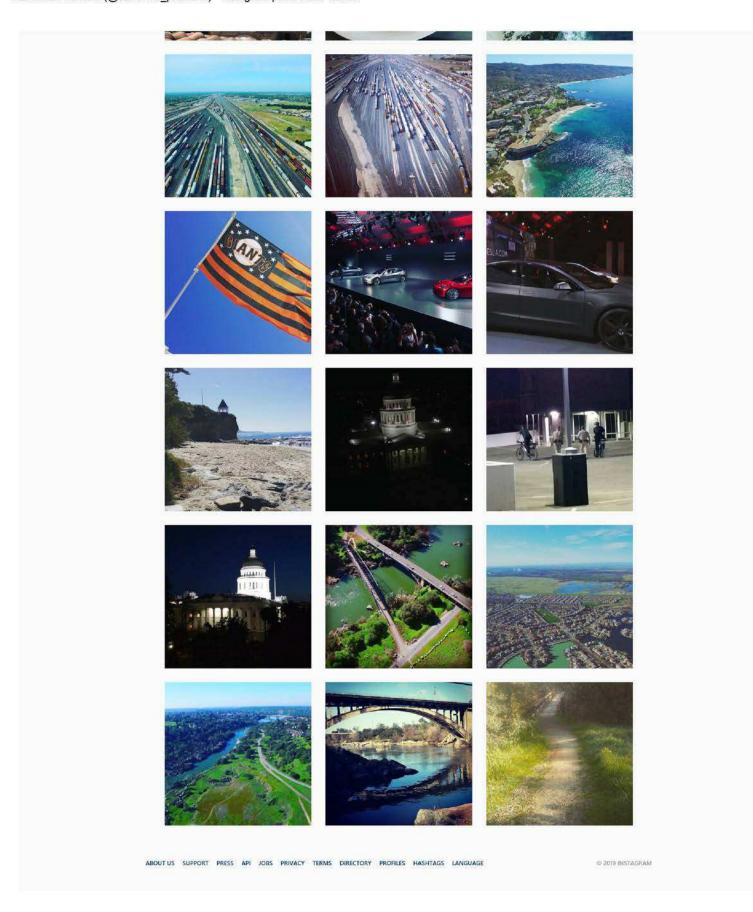


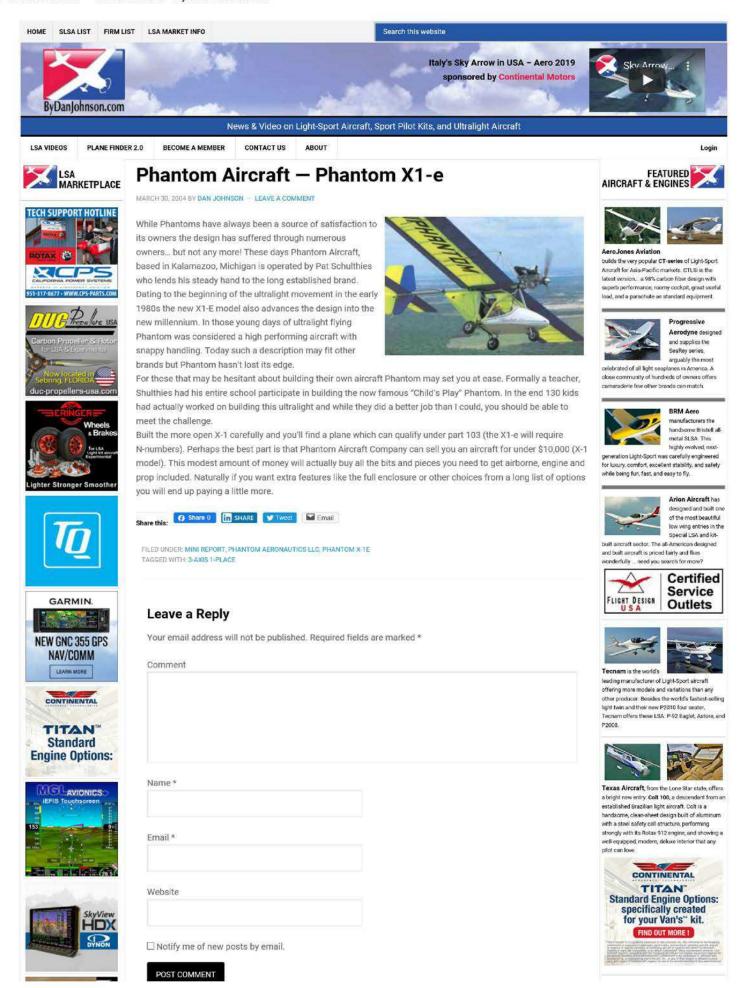














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nation's largest seller of Light-Sport Aircraft, focused on the: CTLS and CT Super, the top selling LSA in America. Airtime has represented Flight Design's CT series since Day One and knows more about the model than anyone outside the manufacturer. Run by a father and son team, Tom and Tom Gutmann Sr. and Jr. are enthusiasts that can get you in the aircraft you want and can help you m your aircraft.



## SilverLight Aviation created an

all-American gyroplane with modern equipment, built by a

like AR1 fly much like fixed wings but with real advantages.



## North Wing is America's leading manufacturer of

Part 103 ultralight wing designs are so good that most other trike rers use them. Aircraft prices are highly



manufacturers us affordable by all

## Aero Adventure

offers what is likely the lowest cost boat-hull aircraft space with a

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#### **Evolution Trikes** developed and continues to refine their Revo, an weight shift control

aircraft (or trike). Rev is their new very affordable single place machine.



#### Bristell USA distributes the highlyrefined Bristell aircraft

Czech-built aircraft is a 5th generation design with excellent performance, wonderful handling, and a most appealing shape. Other airplanes may look similar but Bristell has gone far beyond.





Aerotrek Aircraft imports the A240 and A220 tricycle gear or taildragger Special Light-Sport Aircraft. A finely finished aircraft

at an excellent price, Aerotrek has wide, affordable



Aerolite 103 is a remarkably well priced (way below \$20,000), well-equipped, Part 103 ultralight that flies

beautifully. Several hundred are airborne and production has never been more solid. Here is a airplane every pilot can love and afford.



The Airplane Factory (TAF) produces the Sling series of world-circling aircraft (literally) and now this fine-flying, all-

metal beauty is available in the United States as a Special Light-Sport Aircraft. Here is an LSA to



SportairUSA is a pioneering LSA distributor featuring the top-performing STDL, the Savage Nomad Shock Ultra, and

Z-Floats - amphibious floats for light aircraft. It is a full-line, mid-America operation providing LSA & Part 23 airframe, engine & prop maintenance, repair and avionics.



Kolb Aircraft is one of the most famous and successful names in light aviation. From

to the Part 103 Ultralight Firefly, Kolb has some of the most charming and best flying aircraft you can afford.



Lockwood Aircraft is the builder of two of light aviation's bestrecognized flying machines: AirCam and the Drifter line. Most

sport aviators already know the Lockwood brand, a leader in Rotax maintenance and aircraft



Evektor is Number One and always will be. The Czech company's SportStar was the number one

SLSA to win approval but engineers have steadily improved the model far beyond that 2005 version that started the race.



Ekolot America represents three handsome allcomposite designs that boast very

attractive prices to match their handsome exterior cleanliness and besutiful interior. Built in Poland and represented in three locations around the USA, here is an affordable aircraft you'd be proud to now.



designed and manufactures a wonderful Light-Sport amphibious flying boat

of the same name. Created in Brazil SeaMax is a beoutifully finished, high performing aircraft, the first to win FAA acceptance as a SLSA and it sets a high standard for light floatplanes.



Aeropilot USA ends your search for a Light-Sport Aircraft that is both familiar and new, Consider

L600. This 80%-sized copy of Cessna's 182 is built with modern materials and well equipped but for tiny fraction of the cost of a new Skylane.





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# Kawasak



# Suzuki unveils new GSX-S1000FZ Phantom – and colours for 2018 GSX-S range

由 16/11/2017 ▲ Ross Mowbray ● Featured, News

Suzuki has revealed its new matt-black GSX-51000FZ Phantom, which joins the popular GSX-51000 and GSX-S750 Phantom for 2018.





£3,000,00

























The GSX-S1000FZ Phantom's matt-black colour scheme is offset with subtle red detailing, making it distinct from the standard GSX-S1000F. The GSX-S1000 super-naked is also available in a new white paint scheme for 2018, with red and black graphics and red wheels, while the GSX-S750 – which was new for 2017 – is now available in an eye-catching red and black livery, alongside the classic blue and black option, and all-black Phantom.

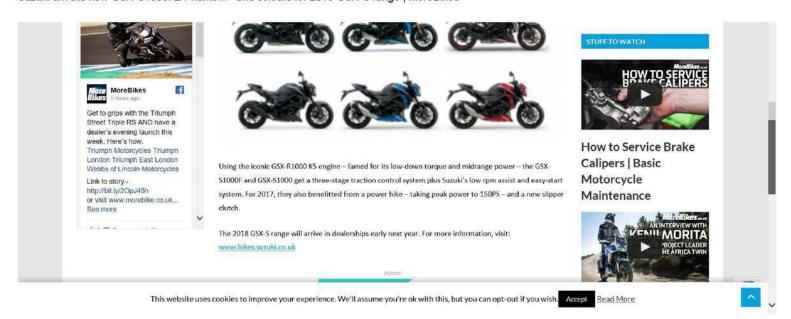


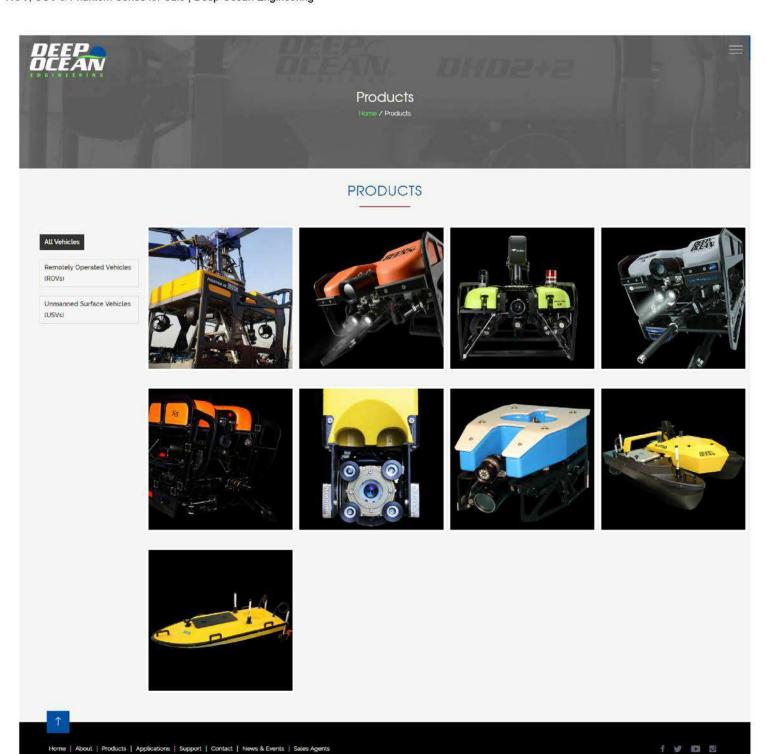


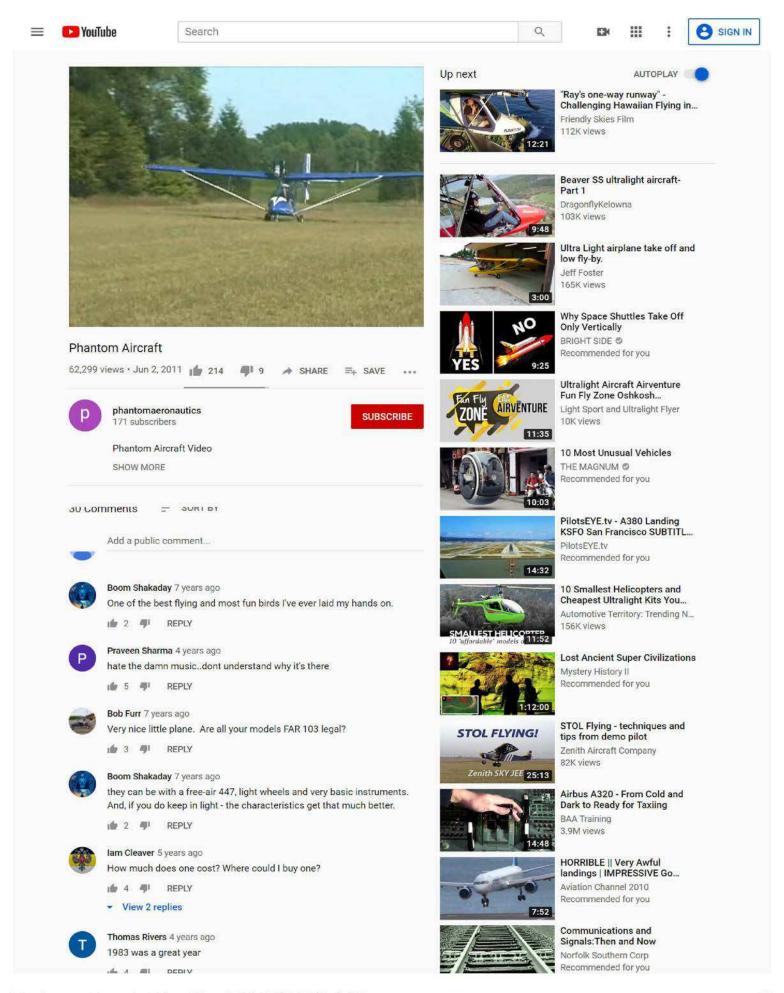












View reply

Axios .king 5 years ago

I want one you give no details on where and how to buy one

1 2 9 REPLY

View 2 replies

pobpitts 7 years ago FARK ME !!! I want 1

1 4 REPLY

Geno 5 months ago

i love the Phantoms! Classic design that will never go out of style

IN A REPLY

Malc W 4 days ago

The music drove me mad. Had to stop watching. It's a flight vid. Not a music vid!

IN A REPLY

ButchNackley 3 months ago

One of these days, I will have one.

A 41 REPLY



Donnie Woodley 7 months ago

Great plane love mine.

i # ■ REPLY

Roadking911 2 years ago how do you learn to fly one?

1 9 REPLY



epiculo2 6 years ago

Looks quite like the old Quicksilver! This is a back to the basis of microlight flight.

1 2 9 REPLY



bipola telly 1 year ago

but what if the wings fall off? you'd lose your jacket!

1 9 REPLY



Bobby Jones 6 years ago

Where do I get one

in 1 91 REPLY



purgas 5 years ago

This video scares me. To all new students please don't follow this guy! What a weak video! Music is gay.

1 4 REPLY

View 2 replies



meteor lot 7 months ago

Jak się nagrywa film o lataniu to nie puszcza się głupowatej muzyki tylko daje się posłuchać silnika. Wstyd że w lotniczej branży panuje taki prymitywny zwyczaj

# # REPLY



Lester Christensen 3 years ago Not worth the money!

d a still provid



P51 MUSTANG 4 SHIP FORMATION FLIGHT!

steveo1kinevo @ 672K views



RANS S21, RANS S 21 Outbound, LSA/ELSA or...

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Brian FitzGerald

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/ Maintenance Check Flight

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Dean Scott

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TBM850!

steveo1kinevo @

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Christian Smith

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Darrell Witham 97K views





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## Mark Jones 6 years ago

Hey! I had one of these back in 2003 it was fitted with a Robin 440 fitted. G-MJTE it was registered. Great little aircraft and had some fun flying it. Just don't fly the open cockpit version in shorts with keys and a Mobile Phone in your pocket. I did and they were not there when I got back. They Read more

im 2 491 REPLY



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To Idaho

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Flying the TYRO recreational (ultralight) aircraft

Robert Shaw 648K views



**Building and Flying The** Challenger II

3371gary 179K views



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RX 550

mmatt

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Quicksilver MXL II Sport Ultralight Airplane

yi-ping Wen

2M views



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tblsaci

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Kawasaki 440 engine

jim jaeger 410K views



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perno1957 26K views



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Roger Diotte 81K views



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Lightning Bug, Brian Austein, Twin Engine Lightning Bug...

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sdplanes

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my phantom ultralight

Tony Pelton 11K views



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# Kolb Firefly Folding

buzzard503 99K views



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Ultra Short Take Off Ultralight

KonradT4 138K views



Ernie gives up after 4th takeOff attempt

Rick Patterson

85K views



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TBM850!

steveo1kinevo @ 1.7M views



Lightning, Lightning light sport aircraft, experimental lightspo...

Light Sport and Ultralight Flyer 47K views



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Aerolite 103 ultralight flying

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Hiperlight experimental light sport aircraft from Thunderbir...

Light Sport and Ultralight Flyer

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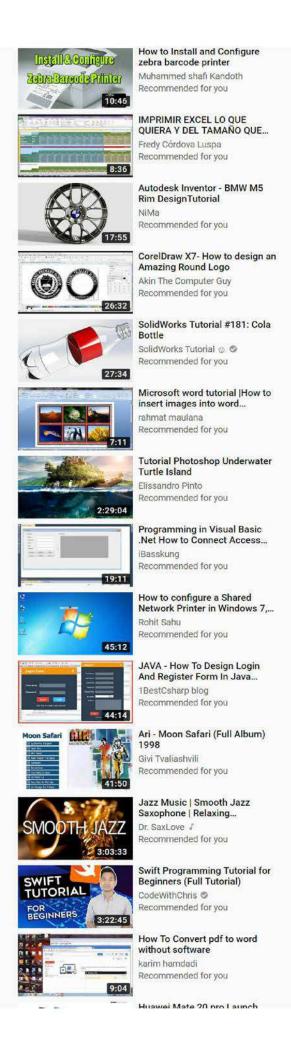
Samsung J5 Prime (SM-G570F) FRP Unlock | Google Lock...

Mobile Solution by ayyan Recommended for you

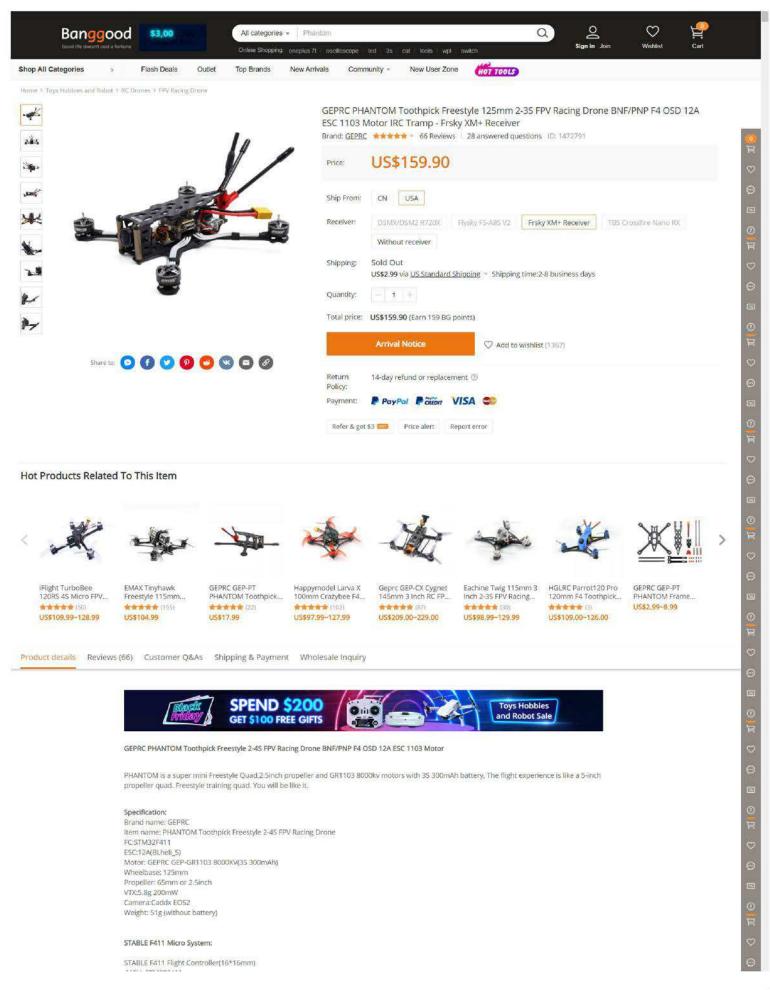


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MCU: STM321411
IMU: MPU6000 gyro/accelerometer (SPI)
OSD: @etaRlight OSD w/ AT7456E chip
BEC Output: SV@2A
Size: 21mm\*2/mm
Mounting holes: 16mm\*16mm
Integrated IC Filter
Input voltage 2-45 LIPO
Firmware target: MATEKF411
Weight: 2.5g

## STABLE F411 BLheli\_S 4IN1 12A ESC(16\*16mm)

MCU: BB21F16G
Continuous current: 12A
Input voltage: 2-45 LIPO
ESC protocol: pwm, oneshot125, multishot, dshot150, 300, 600, etc.
Size: 23mm\*21mm
Mounting hole 16\*16mm
Firmware target: Blheit\_5 G\_H\_30
Current meter: 210
Weight: 2.7g

#### STABLE F411 VTX 5.8G 200mW(16\*16mm)

Power: PIT/25/100/200mW Antenna interface: IPEX (UFL) Telemetry: IRC Tramp Size: 17mm\*27mm Mounting holes: 16\*16mm Integrated LC Fiiter Weight: 1.6g

#### Package Included:

1 x PHANTOM Toothpick Freestyle 2-3S FPV Racing Drone

















