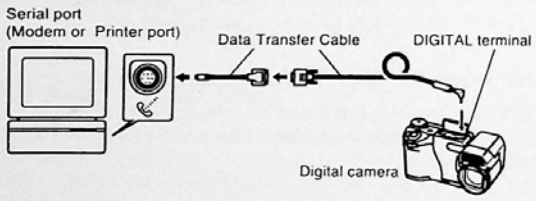
Macintosh

You can connect the camera to the serial port (modem or printer port) of your Macintosh using the Data Transfer Cable.



IMPORTANT!

- See the documentation that comes with Photo Loader for information about system requirements.
- Be sure to turn off the camera, computer, and all peripherals (monitor, disk driver, etc.) connected to the computer before connecting the digital camera with the Data Transfer Cable.
- Never connect or disconnect the cable while Photo Loader is running. Doing so can cause problems with program execution, can corrupt data, and can damage the camera and your computer.
- Data transfer while camera batteries are low can result in sudden shutdown of the camera. Because of this, use of the optional AC adaptor is recommended whenever performing data communication with the camera.
- This camera does not support data communication with any of the optionally available CASIO PC link software applications: LK-1, LK-1A, LK-10V, LK-11W, LK-2, LK-2A, LK-2V, LK-21.

USING CompactFlash CARDS WITH YOUR COMPUTER

Setting Up to Access CompactFlash Card Contents From Your Computer

You can use any of the three methods described below to access the contents of a memory card with your computer. You can use the Photo Loader software to save images on the memory card to your computer.

CompactFlash Memory Card Slot

If your computer has a CompactFlash Memory Card Slot, insert the camera's memory card into the slot.

PC Card Slot

In this case you need an optionally available CASIO CA-10 PC Card Adaptor. See the instructions that come with the PC Card Adaptor and the documentation that comes with your computer for details on using this type of configuration.

Other Desktop Computer Configurations

Some desktop computers require a separately available PC card reader/writer and the optionally available CASIO CA-10 PC Card Adaptor to read memory card contents. See the instructions that come with the PC card reader/writer and the PC Card Adaptor for details on using this type of configuration.

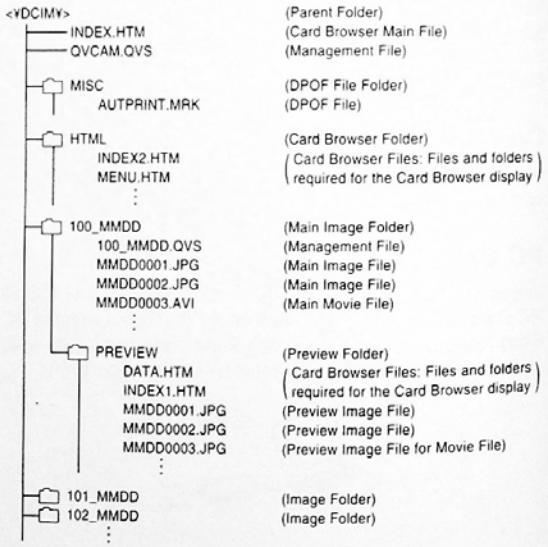
Memory Card Data

Images recorded with this camera and other data is stored on the memory card using DCF (Design rule for Camera File system) protocol. DCF protocol is designed to make it easier to exchange image and other data between digital cameras and other devices.

DCF Protocol

DCF devices (digital cameras, printers, etc.) can exchange images with each other. DCF protocol defines the format for image files data and the directory structure for the memory card, so images can be viewed using another manufacturer's DCF camera or printed on a DCF printer.
In addition to support for the DCF protocol, your CASIO digital camera also shows dates in image folder names and image file names, which helps to make data management easier.

CompactFlash Card Directory Tree



Folder and File Contents

- Parent Folder
  Contents: All files used by the digital camera
- Card Browser Main File
  Contents:Template for card browser, which is used for viewing image previews with a web browser
- Management File
  Contents: Information about folder management, image sequence, etc.
- DPOF File Folder
  Contents: DPOF files
- DPOF File
  Contents: Printer data
- Card Browser Folder
  Contents: Files used by the card browser
- Card Browser File
  Contents: Data used by the card browser
- Main Image Folder
  Contents: Image file recorded by the camera
- Main Image File
  Contents: Still image file recorded by the camera
- Main Movie File
  Contents: Movie file recorded by the camera
- Preview Folder
  Contents: Preview images
- Preview Image File
  Contents: Preview images of still image and movie files used for temporary playback and card browser previews

Image Files Supported by the Camera

- Image files recorded with the CASIO QV-8000SX Digital Camera
- JPEG files stored using Photo Loader
  (1280 x 960 pixels or 640 x 480 pixels JPEG file)
- DCF protocol image files
- JPEG files stored using QV-LINK (1280 x 960 pixel and 640 x 480 pixel JPEG files)

Personal Computer

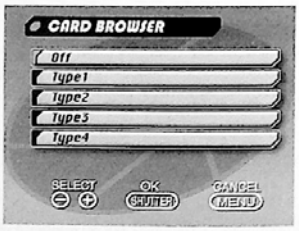
- This camera uses management files to manage the sequence and attributes of image files. Because of this, adding files, deleting files, changing management file contents, or changing file sequence and attributes with your computer can cause panorama images to become ungrouped. It can also result in slower image scrolling on the camera.
- When transferring CompactFlash card contents to a hard disk, floppy diskette, MO disk, or other external storage, keep everything in the DCIM folder together. Changing the name of the DCIM folder to a date is a good way to keep track of your images. However, be sure to change the name of this folder back to DCIM if you ever copy it back to the memory card for playback on the camera. This camera does not recognize any folder name besides DCIM.
- The above is also true about the names of folders inside the DCIM folder. These folders must be returned to the names assigned to them by the camera whenever you copy the DCIM folder back to the memory card for playback on the camera.
- Never delete or modify the QVS file in any way.
- We also strongly recommend that after transferring data from a CompactFlash card to other external storage that you re-format the card and delete its contents before using it to record more images.

Card Browser

Card Browser makes it possible to use a browser application to view images recorded with the QV-8000SX.

- The HTML file generated by this camera is best viewed using Microsoft Internet Explorer 4.01 or later, or Netscape Communicator 4.5 or later. It cannot be viewed using Photo Loader.
- QuickTime 3 is required to play back AVI movie files.

1. **Press MENU.**
2. **Select "Set Up" → "Card Browser".**



3. Specify the format.

There are four Card Browser formats.

Type1 ..... This is a powerful format that provides detailed information about each image and also includes a Slide Show feature.

Type2 ..... This format is a viewer with a Slide Show feature.

Type3 ..... This format shows information about each image. You should be able to use it with any browser, regardless of version.

Type4 ..... This format provides basic image viewing. Since it is the simplest option, you should be able to use it with just about any browser, regardless of version.

Card Browser Format	Type1	Type2	Type3	Type4
Data Screen	○	○	×	×
Index Screen	○	×	○	×
Actual Size (in pixels)	×	○	×	○
VGA Size	○	×	○	×
SXGA Size	○	×	○	×
Image Scrolling	○	×	○	×
Slide Show	○	×	○	×
Full Screen	○	×	○	×
Movie (AVI) Play	Endless	One Time	Endless	One Time

IMPORTANT!

- Note that the Type1 and Type3 formats use Java Script, so their use requires Microsoft Internet Explorer 4.01 or later, or Netscape Communicator 4.5 or later.
- In the case of Type1 and Type3, Slide Show displays 640 x 480 pixels and 1280 x 960 pixels image in the same size, so image details may appear relatively coarse.

- The index screen uses the contents of the Preview Folder (page 104). Images copied from another digital camera or a computer may not have preview images, and so they do not appear in the index screen. If this happens, scroll through the images on the monitor screen until the copied images appear. At this time, the camera automatically generates a preview image, which will now appear on the Card Browser index screen.

- Turning on Card Browser causes an HTML file to be generated whenever you turn off camera power.
- Selecting "Off" in step 3 of the above procedure turns off Card Browser.
- Creation of an HTML file causes an INDEX.HTM file and other files to be added to the DCIM folder.

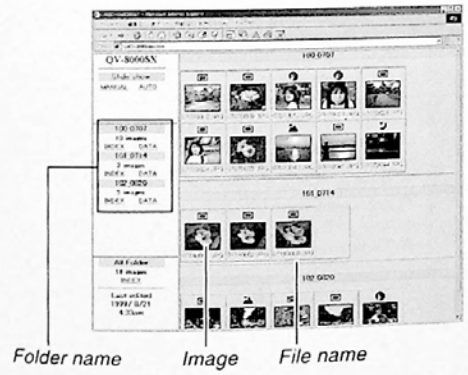
IMPORTANT!

- Though the camera's monitor screen goes blank when you turn off power, the operation lamp continues to flash for some time as the camera internally generates a Card Browser file (when Card Browser is turned on). Performing any of the operations while the operation lamp is flashing not only stops generation of the Card Browser file, it can also result in corruption of the image data on the CompactFlash Card.
  Note that a Card Browser file may be corrupted if batteries are low or if the CompactFlash Card becomes full during file generation.
- If the CompactFlash card in the camera has a large number of files on it, it may take quite a bit of time for the camera to generate the required HTML files and actually turn off after you slide the POWER switch towards OFF.
  Because of this, we recommend that you normally leave Card Browser turned off, except when you actually want to generate HTML files.
- This camera generates a Card Browser file whenever you turn off power. When the card in the camera contains a large number of files, it may take some time for the file generation operation to be performed. You can turn off the Card Browser feature if you do not want a file generated each time you turn off camera power.
- If you perform a timer operation while Card Browser is turned on, files are not generated until the number of shots specified for the timer's SHOTS setting are recorded. If you want to generate files for images recorded by a timer operation that is not yet complete, turn the camera off, wait for the files to be generated, and then turn the camera back on again. Note, however, that this also cancels the ongoing timer operation.

How to use the HTML file

Viewing HTML File Contents

Load the CompactFlash card into a card slot of your computer (page 103). Now drop the INDEX.HTM file (in the DCIM folder) onto your Web browser to display a list of all images contained on the CompactFlash card.
For information about importing data from a memory card, see "Setting Up to Access CompactFlash Card Contents from Your Computer" (page 103) and "Connecting to a Computer" (page 100).



Clicking on a folder name displays the following data about the images contained in the folder.

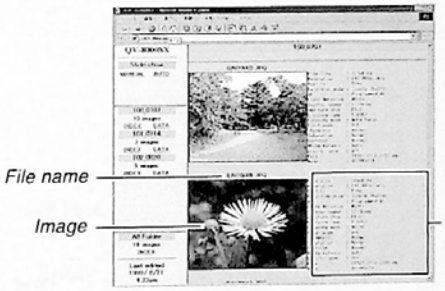


Image Information

File size (KB)
Resolution (pixels)
Quality
Recording mode
AE
Light metering
Shutter speed
Aperture stop
Exposure comp
Focusing mode
Flash mode
Sharpness
Saturation
Contrast
White balance
Digital zoom
Date
Model

Click Index to return to the image list.

Function Descriptions

Index Screen	When the computer accesses the memory card, it opens the INDEX.HTM file in the DCIM folder and displays an index of folders, with the newest one first. Clicking the INDEX button under a folder name in the left frame displays an index of all the images in the folder. Clicking the INDEX button under ALL Folder displays an index of all the files in all folders.
Data Screen	Clicking the DATA button under a folder name in the left frame displays the images in the folder and their recording information.
Actual Size (in pixels)	Accessing the memory card on your computer and clicking the INDEX.HTM in the DCIM folder displays 320 x 240-pixel size images in the newest folder. Clicking directly on the image changes SXGA size or VGA size, whichever was the recorded size of the image. This function is available with the Type2 and Type4 formats only.
VGA Size	Clicking directly on an image in the index or data screen displays its VGA size (CHILD PAGE) image.
SXGA Size	Clicking directly on a VGA size image displays its SXGA (IMAGE DISPLAY) image. The SXGA image is always displayed, regardless of the recorded size of the image.
Image Scrolling	Clicking the arrows above a VGA size image scrolls forward and back through the images. Clicking directly on an SXGA size image advances to the next image. You can select page scrolling for a particular folder or all folders. AVI files are not displayed.
Slide Show	Images in a specific folder or all folders opened to the maximum window size to match the monitor being used. AUTO or MANUAL can be selected as the image change type. AVI files are not displayed.
Full Screen	Selecting AUTO for the slide show causes images in a specific folder or all folders opened to the maximum window size to match the monitor being used. Images are changed at an interval of about five seconds.
Movie (AVI) Play	AVI movie files can be played back on the screen. Playback image size is the same as the record image size. Endless playback is performed with the Type1 or Type3 format, while Type2 and Type4 plays the movie once and then stops.

Saving an HTML File

- You can use the Photo Loader application to easily save the images in the HTML file to a computer. See the documentation that comes with Photo Loader for details.
- Before using the CompactFlash card again (after storing its images on other media), delete all its current files or reformat the card.

TROUBLESHOOTING

	Symptom	Probable Cause	Action
Power Supply	No power	1. Batteries not loaded correctly. 2. Dead batteries 3. Wrong AC adaptor	1. Correctly load batteries (page 38). 2. Replace all four batteries with a set of new ones (page 38). 3. Use only recommended AC adaptor .
	Sudden power failure	1. Auto Power Off 2. Low battery power 3. Use of manganese batteries.	1. Turn power back on. 2. Replace all four batteries with a set of new ones (page 38). 3. Replace manganese batteries with alkaline, lithium or Ni-MH batteries.
	"▭" indicator on LCD	Batteries are about to go dead.	Replace all four batteries with a set of new ones (page 38).
Recording	No recording when shutter button is pressed	1. Function Switch set to PLAY. 2. Flash unit is charging. 3. The message "MEMORY FULL" is on the monitor screen. 4. Insufficient memory card capacity or no memory card loaded in camera.	1. Set Function Switch to REC. 2. Wait until flash unit charging is finished. 3. Delete images you no longer need from camera memory. 4. Load a memory card.
	Auto Focus cannot focus the image.	1. Lens is dirty. 2. The object you want to focus is not in the focus frame. 3. Conditions make it impossible to obtain proper focus. 4. Camera is unsteady or shaking.	1. Clean off the lens. 2. Aim the camera so the object you want to focus is in inside the focus frame. 3. Switch to the Manual Mode and focus manually. 4. Use a tripod to steady the camera.

	Symptom	Probable Cause	Action
Recording	The recorded image is out of focus.	The focus setting is not correct.	Make sure the subject you want to focus is within the Auto Focus Frame when you record the image.
	Power failure during self-timer operation	Low battery power	Replace all four batteries with a set of new ones (page 38).
	Monitor screen image is out of focus.	1. Failure to focus the image while the camera is in the Manual Mode. 2. Camera is in the Macro Mode. 3. Camera is in the Normal Mode while the subject is too close.	1. Focus the image before recording it. 2. Use the Normal Mode for scenery and group shots. 3. Use the Macro Mode for close ups.
	Poor color and brightness when indoors	Indoor fluorescent lighting	Shoot under incandescent or other non-fluorescent lighting (page 48).
	Cannot perform movie recording.	1. Movie Record Mode is not selected. 2. Insufficient camera memory capacity.	1. Select the Movie Record Mode (page 61). 2. Delete images you no longer need from camera memory.
	Recorded image is not saved.	1. Loss of power before image is stored in memory 2. Memory card cover was opened before the image was fully saved.	1. Replace all four batteries with a set of new ones (page 38). 2. Never open the memory card cover until the image is fully saved.
Playback	Colors of recorded image are different from those on the display when image was composed.	1. Reflection from sunlight or light from another source 2. Image quality setting	1. Reorient the camera so that light is not shining directly into lens. 2. Use the Recording Menu to change to a higher image quality for recording.

	Symptom	Probable Cause	Action
Playback	No +/– button operation during nine-page display	Button operation during page change	Wait until an image is on the monitor screen before performing a button operation.
	Cannot find an image.	1. Memory card images recording using a camera that does not support DCF. 2. Management files required to display images cannot be created.	1. The file management systems of cameras that do not support DCF are different from the one used by this camera. This camera cannot read cards recorded with such cameras. 2. Make more room available on the memory card by deleting some of its images or other data.
	Camera is connected to a TV, but LCD monitor contents do not appear on TV screen.	1. Incorrect camera-TV connection 2. Wrong TV set up 3. Wrong video mode is selected.	1. Connect correctly using the video cable (page 98). 2. Set up the TV correctly. 3. Change the video mode.
	Images cannot be displayed when downloaded back the camera from a computer.	The images were on a memory card when they were opened on the computer for editing and then resaved back to the memory card.	Use the Photo Loader application to download edited images back to the camera.
Deletion	Delete operation does not operate.	All images are protected.	Unprotect the images you want to delete (page 90).

	Symptom	Probable Cause	Action
Other	Cannot select items in the Playback Menu.	Some functions are not available for playback of certain types of images.	Select a different function or change to the Record Mode.
	No buttons or switches operate.	• Malfunction due to static electrical charge or strong impact. • Camera is connected to a computer.	Remove batteries and disconnect the AC adaptor if you are using one. Restore power and turn the camera on. If this does not work, contact your dealer or an authorized CASIO service provider.
	Slide Show starts even though it is not selected.	Activation of the screen saver.	Turn off screen saver (page 85).
	Nothing appears on the monitor screen.	1. The camera is in the Sleep state. 2. Communication over the USB cable is in progress.	1. Exit the Sleep state. 2. After the communication operation over the USB cable is complete unplug the USB cable from the camera.

MESSAGES

Can't play PANORAMA

This message appears when there is not enough memory to perform panorama recording. Delete some images from the memory card to make room for the new image.

CF ERROR
You must format the CompactFlash card before using it with this camera.
FORMAT→MENU

Perform the following procedure whenever a memory card starts to behave abnormally.

Important!

The procedure described below deletes all images stored in the memory card. Make sure all of your important images are backed up onto a computer hard disk or other storage medium before performing this procedure.

To reformat a memory card

1. Connect the AC adaptor to the camera and switch to AC power or load a new set of batteries into the camera.
   - Power failure while a format operation is being performed aborts the reformat operation.
2. Press MENU.

3. Use [+] and [–] to select "Yes", and then press the shutter button.
   - Select MENU if you want to abort the reformat procedure without deleting anything.
   - Completion of the format operation is indicated by the message "NO IMAGE" appearing on the monitor screen. This message also indicates that the memory card was formatted successfully.

MEMORY FULL
Change quality or delete unneeded images.

Not enough memory for recording in the current quality mode. Change to another quality mode, or delete some images from the memory card (pages 53, 92).

MEMORY FULL
Delete unneeded images.

- Not enough memory for further recording. Delete some images from memory card (page 92).
- DCIM folder or other file (page 104) cannot be created due to insufficient memory when downloading data from a computer to the memory card. Use your computer to delete unneeded images to free up memory card space for the images you are downloading. You could also press the MENU button and format the memory card in the camera, but doing so deletes all image files currently stored on the memory card.

NO FORMAT

No images are stored in memory card.

There is no memory card installed in the camera.

RECORD ERROR	This message appears when the image you are trying to record cannot be compressed for some reason. Try changing the angle of the camera to the subject.
REPLACE BATTERY!	Battery power is low. Camera power turns off automatically shortly after this message appears.
There are no images on this memory card!	The memory card is not formatted. Format the memory card before trying to use it (page 36).
This camera cannot display the image you selected!	The JPEG image file you are trying to display is either corrupted or is a format that is not compatible with this camera.
Timer operation cancelled.	Timer recording was cancelled. To perform timer recording, make all necessary timer settings again.

SPECIFICATIONS

Description ..... Digital camera

Model QV-8000SX

Recorded Image File Format ..... Still images (including panoramas): JPEG (Exif. Ver. 2.1), DCF standard (design rule for camera file system), DPOF compatible, Movies: AVI

Recording Medium ..... CompactFlash card

Recorded Image Size ..... 1280 x 960 pixels, 640 x 480 pixels

Standard Memory Capacity, Number of Image Files, Computer Output Image Size

Static		
1280 x 960	FINE	88/13 sets (500KB / image)
	NORMAL	122/16 sets (350KB / image)
	ECONOMY	206/29 sets (200KB / image)
640 x 480	FINE	268/39 sets (150KB / image)
	NORMAL	327/48 sets (120KB / image)
	ECONOMY	418/63 sets (90KB / image)
Movie: File Format AVI		
Approximate Total: 155 seconds/25 seconds (300KB/second) • The maximum length of a single movie is 10 seconds.		

* When using 48MB/8MB CF card.

Image Deletion ..... Single image; all images in a folder; all images in memory (with image protection)

Imaging Element ..... 1/2.7-inch CCD (Total Pixels: 1.31 million, Effective Pixels; 1.25 million)

Lens ..... F3.2 to 3.5; f = 6 to 48mm (equivalent to 40 to 320mm lens for 35mm film)

Zoom ..... Optical zoom, 8X; Digital zoom: 32X (in combination with optical zoom)
Image size is 640 x 480 pixels when digital zoom is used.

Focusing ..... Contrast-detect Auto Focus; manual focus with macro mode and focus lock

Focus Range
Normal:
Wide-angle (maximum) ..... Approximately 0.4m to ∞ (1.3′ to ∞)
Telephoto (maximum) ..... Approximately 1m to ∞ (3.3′ to ∞)
Macro:
Auto focus ..... Approximately 1cm to 50cm (0.4″ to 19.7″) (Zoom: x1 to x1.6)
Manual focus ..... Approximately 10cm to ∞ (3.9″ to ∞)

Exposure Control
Light Metering: ..... Multi-pattern, center point, spot by CCD
Exposure: ..... Program AE, Shutter priority AE, Aperture priority AE
Exposure Compensation: ..... –2EV to +2EV (1/4EV units)

Shutter ..... CCD electronic shutter; mechanical shutter, Auto (Bulb, 64 to 1/2000 second)

Aperture ..... F3.2, F4.8, F8, auto switching or manual switching

White Balance ..... Automatic, fixed (4 modes), manual switching

Self-timer ..... 10 seconds, 2 seconds

Built-in Flash
Flash Modes: ..... AUTO, ON, OFF, Red eye reduction
Flash Range: ..... Normal: Approximately 0.5 to 2.5 meters (1.6′ to 8.2′)
Macro: Approximately 0.1 to 0.5 meters (0.3′ to 1.6′)

Recording Functions ..... One-shot, self-timer, movie, panorama, timer, continuous, macro, landscape, night scene, portrait

Monitor ..... 2.5" TFT, low-glare color HAST LCD (122,100 pixels, 555 x 220)

Viewfinder ..... LCD Monitor

Clock ..... Built-in quartz digital timepiece for time and date recording and storage with image data; auto calendar up to 2049

Input/Output Terminals .... DIGITAL IN/OUT, USB port (special mini port), AC adaptor connector, VIDEO OUT (NTSC, PAL)

Power Supply ..... Four AA-size alkaline or lithium batteries
Four AA-size nickel-hydrogen rechargeable batteries (NP-H3)
AC adaptor (AD-C620)

Battery Life

The values noted below indicate the number of hours before battery failure under normal operating temperature (25°C). These values are for reference only, and do not guarantee that any particular set of batteries actually will provide the service life indicated. Low temperatures shorten battery life.

Type of Operation	AA-size Alkaline Batteries LR6	AA-size Lithium Batteries FR6
Continuous Playback	Approximately 110 minutes	Approximately 280 minutes
Continuous Recording	Approximately 400 shots	Approximately 1020 shots

- The above guidelines are based on the following battery types:
  Alkaline: MX1500 (AA) DURACELL ULTRA
  Lithium: Energizer
- Battery life varies with brand
- Figures are based on continuous recording under the following conditions.
  Flash turned off
  One zoom slider switching between T (Telephoto) and W (Wide-angle)

Regardless of use of the camera's flash, zoom function, turning on and off the POWER Switch, as well as other operating conditions may affect the above values.

Power Consumption ..... Approximately 6.2W

Dimensions ..... 142.5(W) x 77.5(H) x 71(D) mm
(5.6″ (W) x 3.1″ (H) x 2.8″ (D))
(Excluding projections, lens up.)

Weight ..... Approximately 330g (11.6 oz)
(excluding batteries)

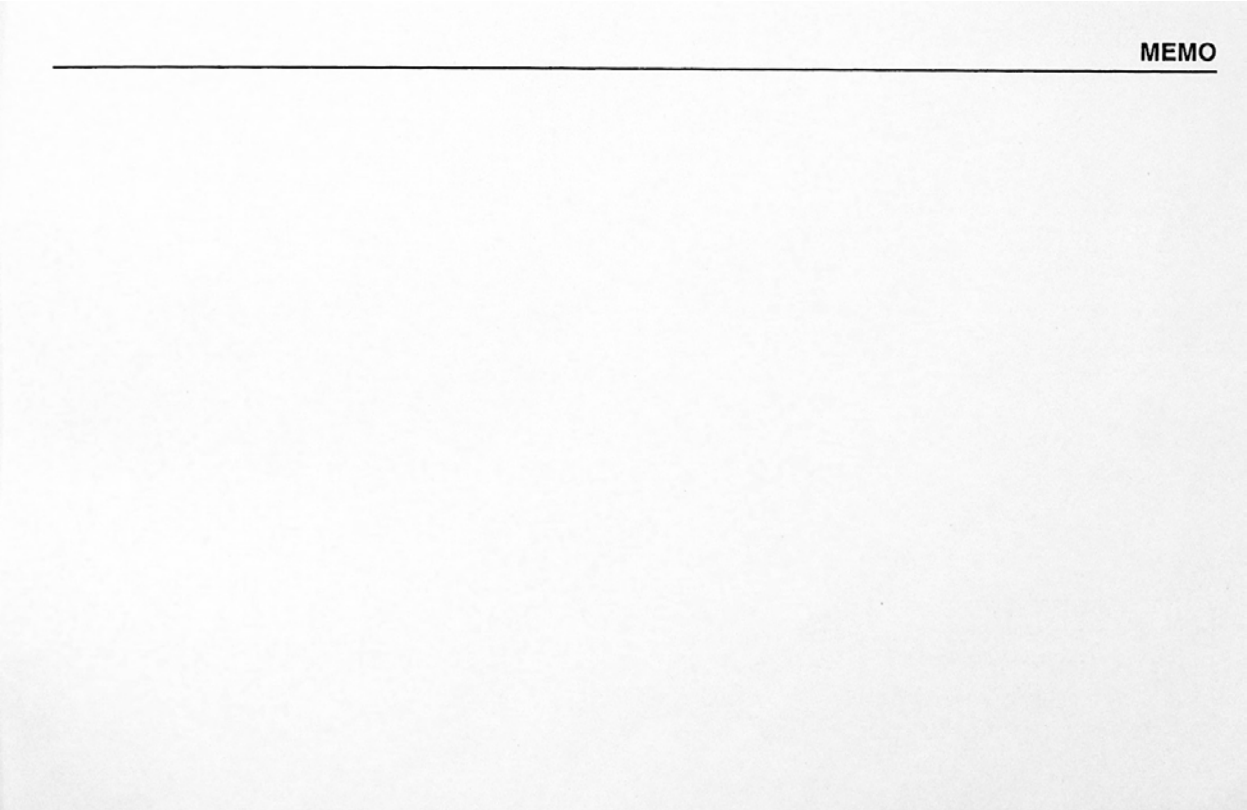
SPECIFICATIONS

Standard Accessories ..... 2-way shoulder/wrist strap; soft case; lens cap; USB cable; video cable; wired remote controller; wired remote controller battery (CR2025 x 1); User's Guide

- This camera does not have a separate battery to power its clock. Clock settings are cleared whenever power to the camera is cut off (by batteries going dead while the camera is not connected to an AC power outlet with the AC adapter) for about 24 hours. After power is resumed, either by loading fresh batteries or connecting to an AC power outlet, you will have to set the correct time and date again.
- The liquid crystal panel built into this camera is the product of precision engineering, with an effective pixel rate of 99.99%. This also means, however that 0.01% of the pixels can be expected to fail to light or to remain lit at all times.

For the latest information about CASIO Digital Cameras and accessories, visit our website at:

http://www.casio.com


MEMO

MEMO

CASIO

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