

MICROS HAND-HELD TOUCHSCREEN PRE-RELEASE INFORMATION

The MICROS Hand-Held Touchscreen system is being readied for release in the Fall of 1992. Initially, the MICROS Hand-Held Touchscreen system will be integrated into the MICROS 4700 HMS Version 6.00 Foundation Software, with plans to provide it with the MICROS 8700 HMS in the Spring of 1993 and the MICROS 2700 HMS in the late Spring of 1993.

In preparation for the market introduction of the MICROS Hand-Held Touchscreen system, MICROS has developed a Preliminary Information Packet (enclosed). This Preliminary Information Packet provides detailed technical, application, configuration, pricing, and competitive information for the MICROS Hand-Held Touchscreen system.

MICROS has acquired a limited number of Hand-Held Touchscreen terminals and Base Stations to be made available as demonstration kits. These kits, which include MICROS 4700 HMS Version 6.00 "pre-release demonstration software" are scheduled to ship in October, prior to the product release in late 1992. An order form for the kits is included with this PMA.

To place an order for a MICROS HHT pre-release demonstration kit, please fax the order to the attention of MICROS Marketing at (301) 490-6699 or call (301) 497-6058 for additional information.

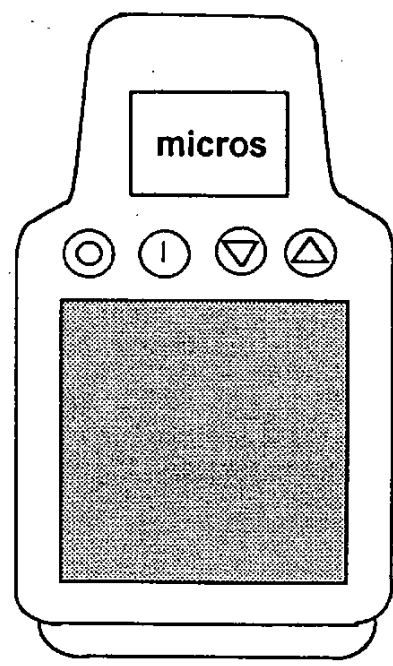
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Dealer Reference Guide



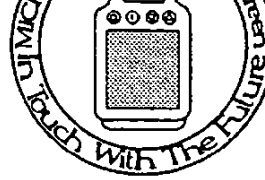
for the:

MICROS HAND-HELD TOUCHSCREEN



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Hospitality Information Systems



I. INTRODUCTION

MICROS Systems, Inc. is pleased to introduce the Hand-Held Touchscreen, a palm-sized touchscreen terminal servers use as an electronic replacement for a server's notepad. The HHT allows operators to place orders, check menu item availability, and finalize guest checks from anywhere in the restaurant at any time. Orders appear immediately at the appropriate preparation print stations while the server attends to the customers' immediate needs. With two-way communications, servers are notified if an item is unavailable before they leave the table.

The HHT system speeds customer service by transmitting and receiving order information from where it is taken. This increases table turns, improves server productivity, and allows for reduction in labor costs when fewer servers are used to handle a restaurant's tables.

The unique touchscreen interface also simplifies operator training and reduces instruction time because it is the most innovative and easy-to-learn system available today. Training on the HHT system takes only minutes since the keyboard is also the display, and complete guest check details can easily be reviewed at a glance.

The MICROS HHT utilizes spread spectrum radio frequency (RF) technology to communicate with a MICROS system. Direct sequence, spread spectrum transmission technology is more reliable than traditional FM transmission; and with transmission power of 100 milliwatts, the internal range through walls is approximately 200 -300 feet, while the outdoor range is 400-600 feet. The 8-10 hour battery life allows a HHT to be used for an entire shift before changing the batteries. A wall mounted charging unit can be installed in a convenient location to recharge battery packs and HHT units. The unit is lightweight and is ergonomically designed to be held comfortably in a server's palm when in use or else carried in an apron pocket or a holster.

The HHT uses a supertwist 120 X 96 pixel LCD display with resistive technology touchscreen overlay. The unit offers 48 key positions in a 6 X 8 matrix. The HHT features electroluminescent backlighting with automatic low light detection. In darker areas, the backlight automatically turns on.

The MICROS HHT System will be released in the Fall of 1992. It will initially be available on the MICROS 4700 HMS, and then later on for the MICROS 2700 HMS and the soon-to-be-released MICROS 8700 HMS.

- **SPECIFICATIONS**

Length:	7.51"
Width:	4.1 "
Depth:	2.31"
Weight:	19.8 oz (562 grams)
Operating Temperature:	+ 32 to + 122 F 0 to + 50 C
Display:	Supertwist LCD, 120 X 96 pixels, 12 lines of 20 to 30 proportionally spaced dark blue characters on yellow-green, anti-glare background
Keyboard:	Resistive touchscreen technology, 48 key positions in a 6 X 8 array
Antenna:	Internal
Radio Frequency:	121Kbps (instantaneous) RF spread spectrum link with built-in antenna
Processor:	Mitsubishi 37700 CMOS at 14 MHz
EPROM:	256K
RAM:	512K
Memory Retention:	Field replaceable Lithium battery, internal, provides for 3 year backup

A MICROS HHT is an intelligent device which contains, locally in each HHT, the application database required to service most all transaction requests. This means that the menu items and functions required for a specific menu/meal period reside in the HHT itself. This intelligent device architecture is unique and optimizes HHT performance as well as provides applications flexibility with the ability to download applications over radio frequency (RF). The HHT device will constantly be updated during the course of the business day as new menu item information, changes in operator privilege status, or changes in serving period menus occur.

The MICROS HHT offers a unique touchscreen interface to ease operator use, reduce training time, and provide increased operator productivity. The touchscreen functionality is very similar to the application offered in the MICROS 2700 HMS system. When an operator touches the touchscreen even lightly, the sensing layer detects the pressure and determines where on the touchscreen the finger touched. If a key is programmed to include those locations, then the system will conclude that a key has been "pressed".

Beneath the sensing layer, the LCD display shows images of programmed keys with legends in any of two character sizes. When a finger touches an area programmed as a key, the key display turns to inverse video to let the operator know the key depression was acknowledged by the system software. The touchscreen keyboard may also be programmed to "beep" if desired.

programmed in a similar fashion to a traditional keyboard. Each key location, legend, and font size is custom chosen and a function code assigned. Optionally, the "key" can be programmed to display another screen after this key's function has been performed.

The user must also choose a touchscreen that will display while the system is awaiting a sign in. After signing in, the system can be set to select one of several transaction touchscreens. The programmer/installer must set a default initial transaction screen but this can be overridden in two ways. The programmer/installer can specify a different initial transaction touchscreen if the signed-in employee is in training. Additionally, a different initial transaction touchscreen can be setup for each employee. This is a very powerful feature as it displays to different types of operators application specific functions.

System-generated screens are displayed when a SLU key is depressed or a condiment entry is required. When one of these situations occurs, the software scans through the menu item file and assembles all those items that have been programmed to belong to this SLU or condiment group. The system has a Touchscreen Style file which details how each system generated screen should display. This includes key and font sizes.

MICROS HHT BATTERY & CHARGER

• SPECIFICATIONS

Internal Power:	Rechargeable Ni-Cad Pack
Battery Life:	8-10 hours, 4 hours typical with constant backlight
Recharging Time:	4 - 6 hours with the HHT Charger Cradle
Operating Temperature:	+ 32 to + 122 F (0 to + 50 C)
☞ Charger Unit:	Accommodates four (4) batteries
Indicators:	2 LEDs - One per charging position. Indicates charging and fully charged.
Charger Unit Size:	11" W X 4" D X 2" H
Mounting:	Tabletop or wall mount.

☞ *Indicates that this item has been changed from the ICRDA information packet*

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