

## VIII. Instruction Manual

- 1.) Quick Reference Card HDT 400 Series
- 2.) Safety Warnings - Handheld Data Terminal, HDT Family  
Safe and Efficient Operation of Motorola Two Way Radio Products

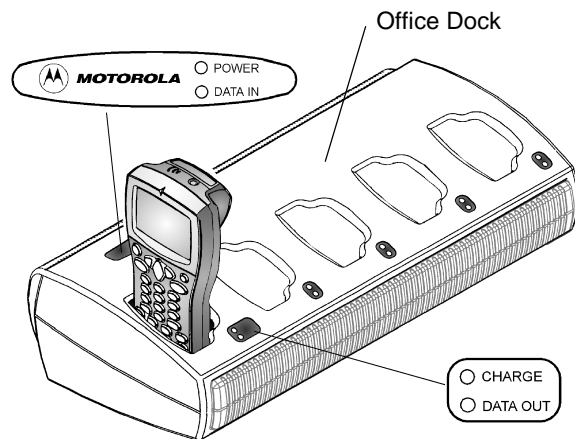
## Battery Charge LED

(see figure below)

- No light - Not in use
- Red light - Battery charging (8 hours for full capacity)
- Green light - Battery fully charged

### Important Note

Battery is considered damaged when charging takes more than 8 hours. Contact service to replace battery.

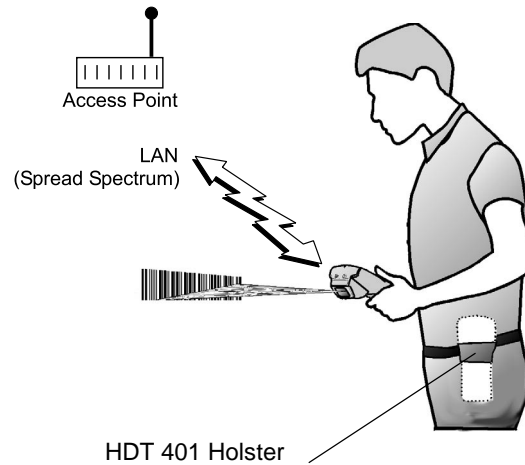


## Data Communication With Host

(see figure above)

Communication between the HDT 401 and the host computer can be established when the HDT 401 rests in the Office Dock. When data flows from the HDT 401 to the host computer, the **Data Out** yellow LED lights.

When data flows from the host computer to the HDT 401, the **Data In** yellow LED lights.



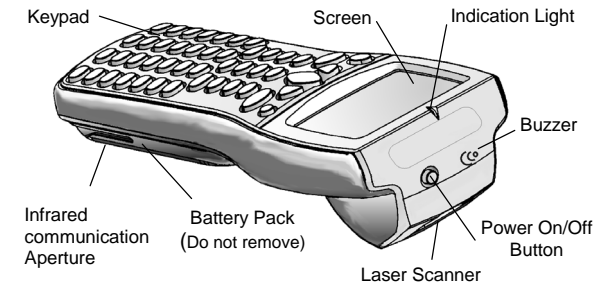
## Approved Accessories

- FNN6001B: Battery – Lithium Ion 3.6V 1450mAH.
- FLN9202A: Belt Holster – full size with pocket.
- FLN9623A: Belt Holster – slipper.
- FLN9438A: Stylus pen.
- FKN4886A: Serial cable (1m) standard EIA RS232 DB9.
- FKN4871A: Serial cable (1m) coiled for Camera printer DIN8.
- FKN4792A: Serial cable (20cm) DB25 with negative supply pin.
- FKN4793A: Serial cable (1m) DB25 with power pins.

# HDT 401

Hand-held Data Terminal  
with Local Area Network Radio Modem  
And LASER Barcode Scanner

## Quick Reference Card



Caution

### CAUTION

To avoid possible eye injury, do not stare directly at the laser beam of the scanner.

**Important Care Instructions:** Use a soft damp cloth to clean the infrared communication aperture and laser window.

## Switching On

Press the Power On/Off button for more than 2 seconds. The Power Indication Light will illuminate, indicating that the battery is O.K. and the device is operative.

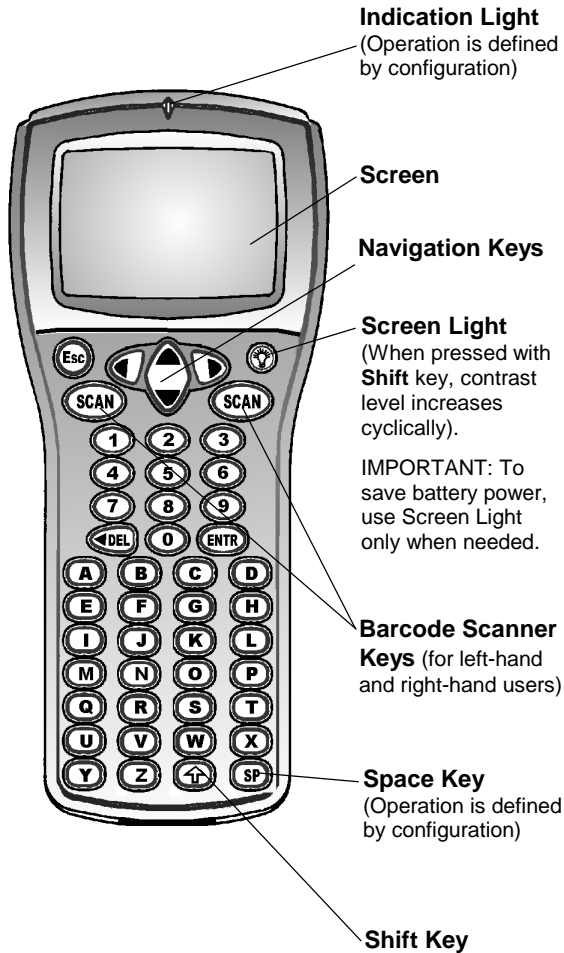
## Switching Off

Press the Power On/Off button for more than 2 seconds and release. The Power Indication Light will turn off.



## Front Panel

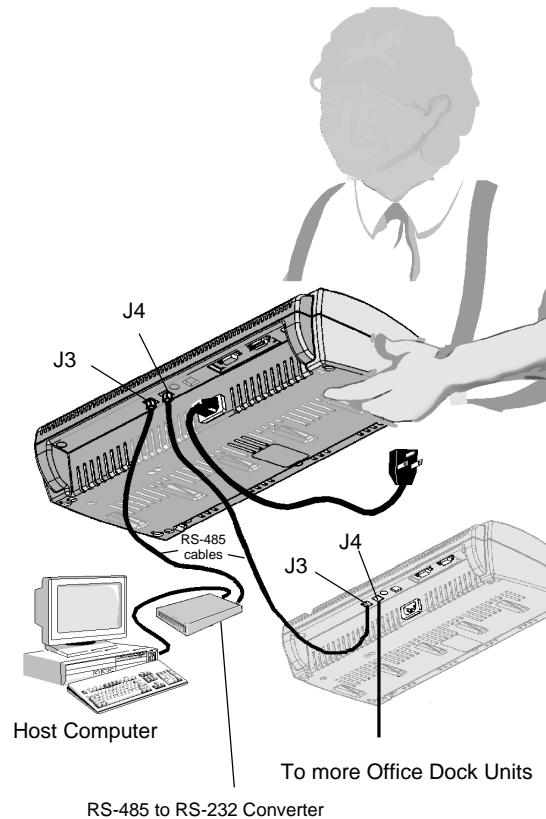
The HDT 401 Keys are assigned to operate according to the specific usage of the device. However, the items shown below refer to basic operations available in all HDT 401 configurations.



## Setting the Office Dock

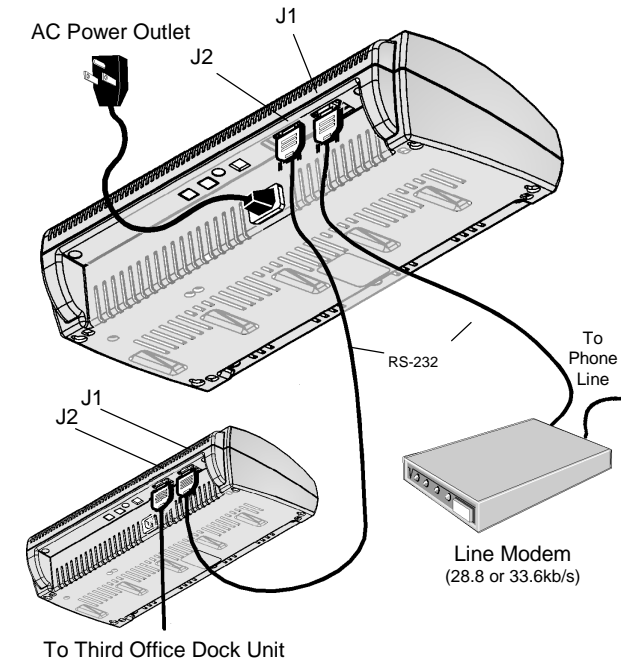
### Local Computer Control

A local computer configuration enables a cascade connection of up to 31 Office Dock units (155 HDT 401 devices) to one RS-485 port in the host computer. For connections, see figure below.



### Remote Computer Control

A remote computer control configuration enables a cascade connection of up to 3 Office Dock units (15 HDT 401 devices) to the host computer. A Line Modem is used for communication with remote located host computer. For connections, see figure below.



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## HANDHELD DATA TERMINAL

### HDT Family

### Safe and Efficient Operation of Motorola Two Way Radio Products

#### RF OPERATIONAL CHARACTERISTICS

Your radio contains a transmitter which transmits using very short bursts of data; a receiver which receives radio frequency (RF); and an internal antenna.

#### EXPOSURE TO RADIO FREQUENCY ENERGY

Your Motorola radio product is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

- **United States Federal Communications Commission**, Code of Federal Regulations; 47 CFR part 2 sub-part J
- **American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C 95. 1-1992**
- **Institute of Electrical and Electronic Engineers (IEEE)**, C95.1-1999 Edition
- **National Council on Radiation Protection and Measurements (NCRP) of the United States**, Report 86, 1986
- **International Commission on Non-Ionizing Radiation Protection (ICNIRP) (1998)**
- **National Radiological Protection Board of the United Kingdom, (1995)**
- **Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999**
- **Australian Communications Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 1999 (applicable to wireless phones only).**

To assure optimal radio product performance and to make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures:

#### PORTABLE RADIO PRODUCT OPERATION & EME EXPOSURE BODY-WORN OPERATION

To maintain compliance with FCC RF exposure guidelines, if you wear a radio product on your body when transmitting, always place the radio product in a Motorola supplied or approved clip, holder, holster, case, or body harness. Use of non-Motorola-approved accessories may exceed FCC RF exposure guidelines. If you do not use a body-worn accessory, and are not using the radio product held in the normal use position, ensure the radio product is at least one inch (2.5 cms) from your body when transmitting.

#### APPROVED ACCESSORIES

For a list of approved Motorola accessories, please contact the local authorized Motorola dealer.

#### ELECTROMAGNETIC INTERFERENCE / COMPATIBILITY

**NOTE:** Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility

#### FACILITIES

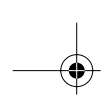
To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio product in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

#### AIRCRAFT

When instructed to do so, turn off your radio product when on board an aircraft. Any use of a radio product must be in accordance with airline regulations or airline crew instructions.

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**Safety Warnings**  
**Please retain for future use**



## MEDICAL DEVICES

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of 6 inches (15 centimeters) be maintained between a handheld wireless radio product and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, Wireless Technology Research.

*Persons with pacemakers should:*

1. ALWAYS keep the radio product more than six inches (15 centimeters) from their pacemaker when the radio product is turned ON.
2. Not to carry the radio product in the breast pocket.
3. Use the radio product away from the pacemaker to minimize the potential for interference.
4. Turn the radio product OFF immediately if you have any reason to suspect that interference is taking place.

### Hearing Aids

Some digital wireless radio products may interfere with some hearing aids. In the event of such interferences you may want to consult your hearing aid manufacturer to discuss alternatives.

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

### Safety and General

*Use While Driving*

Check the laws and regulations on the use of radio products in the area where you drive. Always obey them.

When using your radio product while driving, please:

1. Give full attention to driving and to the road.
2. Use hands-free operation, if available.
3. Pull off the road and park before making or answering a call if driving conditions so require.



## OPERATIONAL WARNINGS FOR VEHICLES WITH AIR BAG

### WARNING

**Do not place a radio product** in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio product is placed in the air bag deployment area and the air bag inflates, the radio product may be propelled with great force and cause serious injury to occupants of the vehicle.

### POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn off your two way radio product prior to entering any area with a potentially explosive atmosphere, unless it is a radio product type especially qualified for use in such areas as "Intrinsically Safe" (for example, Factory Mutual, CSA, or UL Approved). Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

**NOTE:** The areas with potentially explosive atmospheres referred to above include fueling areas such as; below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often but not always posted.

### BLASTING CAPS AND AREAS

To avoid possible interference with blasting operations, turn off your radio product when you are near electrical blasting caps, in a "blasting area", or in areas posted: "turn off two-way radio." Obey all signs and instructions.



## OPERATIONAL CAUTIONS BATTERIES

### Caution

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

