

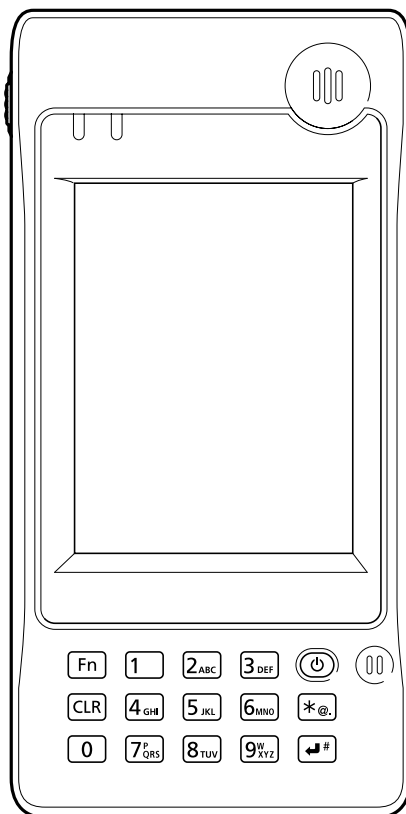
CASIO®

Handheld Terminal IT-500

Series

User's Guide

Be sure to read "Safety Precautions" inside this guide before trying to use your Handheld Terminal. After reading this guide, keep it in a safe place for future reference.



-
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U.S. Patent Office 5,860,082

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Safety Precautions

Congratulations upon your selection of this CASIO product. Be sure to read the following Safety Precautions before trying to use it for the first time.

Markings and Symbols

The following are the meanings of the markings and symbols used in these Safety Precautions.



Danger

This symbol indicates information that, if ignored or applied incorrectly, creates the danger of death or serious personal injury.



Warning

This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of death or serious personal injury.



Caution

This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of personal injury or property damage.



• A diagonal line indicates something you should not do. The symbol shown here indicates you should not try to take the unit apart.



• A black circle indicates something you should do. The symbol shown here indicates you should unplug the unit from the wall outlet.

Precautions During Use



Warning

Disassembly and Modification



• Never try to disassemble or modify the Handheld Terminal and its options in any way. High voltage inside creates the danger of electric shock.

Abnormal Conditions



• Should the Handheld Terminal and its options become hot or start to emit smoke or a strange odor, immediately turn off the power, and contact your original vendor or an authorized CASIO service provider. Continued use creates the danger of fire and electric shock.

Warning

Foreign Objects



- Should any foreign matter get into the Handheld Terminal and its options, immediately turn off the power and contact your original vendor or an authorized CASIO service provider. Continued use creates the danger of fire and electric shock.

Dropping and Damage



- Should you drop the Handheld Terminal and its options and damage them, immediately turn off the power and contact your original vendor or an authorized CASIO service provider. Continued use creates the danger of fire and electric shock.

Moisture



- Though the Handheld Terminal is water splash-resistant, its optional peripherals are not. Keep loose metal objects and containers filled with liquids away from your Handheld Terminal and the optional peripherals. Also, never connect or disconnect peripherals to the Handheld Terminal while they are wet. Water getting into the Handheld Terminal or its peripherals creates the danger of fire and electric shock.

Laser Light



- This product scans bar codes using laser light. Never look directly into the laser light or shine the laser light into the eyes.

Warning!

Interference with the Operation of Other Equipment (Using Wireless Data Communication)



- Keep your Handheld Terminal at least 22 centimeters (8⁵/₈") away from anyone wearing a pacemaker. Radio waves emitted by the Handheld Terminal can affect the operation of a pacemaker.
- In order to protect someone wearing a pacemaker from the risk of unintentional interference, turn off the Handheld Terminal before boarding a crowded train or entering any other crowded area.

Caution

Foreign Objects



- Take care to ensure that metals or combustible objects are not inserted into the openings of the Handheld Terminal and its options. Such the objects inside of the Handheld Terminal create the danger of fire and electric shock.

Location



- Do not locate the Handheld Terminal and its options on a surface that is unstable or uneven. Doing so creates the danger of the Handheld Terminal falling, which can cause personal injury.
- Do not locate the Handheld Terminal and its options in an area subject to large amounts of humidity or dust. Doing so creates the danger of fire and electric shock.
- Do not leave the Handheld Terminal and its options for a long period in a car parked in direct sunlight.

Heavy Objects



- Never place heavy objects on top of the Handheld Terminal and its options. Doing so creates the danger of loss of balance and the objects falling, which can cause personal injury.

LCD Screen




- Never apply strong pressure to the screen or subject it to strong impact. Doing so can crack the screen or LCD panel glass, which can cause the danger of personal injury.
- Should the LCD panel glass break, never touch the liquid inside. Doing so can cause skin inflammation.
 - Should liquid from the LCD panel accidentally get into your mouth, immediately wash your mouth with water and then consult a physician.
 - Should liquid from the LCD panel accidentally get into your eyes or onto your skin, immediately rinse for at least 15 minutes with clean tap water and then consult a physician.



Optional Lithium-ion Battery Pack

Danger





- Never allow the battery pack to become wet. Water can create the danger of battery pack heat emission, explosion, and fire.
 - Never use or leave the battery pack next to open flame, near a stove, or any other area exposed to high heat. Doing so creates the danger of battery pack heat emission, explosion, and fire.
 - Never use the battery pack with any device other than the Handheld Terminal. Doing so can create the danger of battery pack heat emission, explosion, and fire.
 - Note that the battery pack's positive (+) and negative (-) polarities must be oriented correctly when it is loaded into battery charger or the Handheld Terminal. Connecting the battery pack with its polarities reversed creates the danger of battery pack fluid leakage, heat emission, explosion, and fire.
 - Never dispose of the battery pack by incinerating it or otherwise expose it to heat. Doing so creates the danger of battery pack heat emission, explosion, and fire.
 - Never allow the positive (+) and negative (-) terminals of the battery pack to become connected (shorted) by metal. Doing so creates the danger of battery pack heat emission, explosion, and fire.
 - Never transport or store the battery pack together with a necklace, hair pins or other metal objects. Doing so can short battery pack terminals, creating the danger of battery pack heat emission, explosion, and fire. Be sure to place the battery pack in its case whenever transporting or storing it.
 - Never throw the battery pack or otherwise subject it to strong impact. Doing so creates the danger of battery pack heat emission, explosion, and fire.
 - Never pierce the battery pack with nails, hit it with a hammer, or step on it. Doing so can create the danger of battery pack heat emission, explosion, and fire.
 - Never try to take apart the battery pack or modify it in any way. Doing so creates the danger of battery pack heat emission, explosion, and fire.
- 
- Use only the specified battery charger to charge the battery pack. Use of other type of battery charger creates the danger of battery pack heat emission, explosion, and fire.

Warning



-  • Never place the battery pack in a microwave oven or any other high-voltage device. Doing so creates the danger of battery pack heat emission, explosion, and fire.
- Should the battery pack emit a strange odor or heat, change color or shape, or exhibit any other abnormal behavior, immediately stop using it. Continued use creates the danger of battery pack heat emission, explosion, and fire.
- If the battery pack does not achieve full charge after the normal charging time has passed, stop charging it. Continued charging creates the danger of battery pack heat emission, explosion, and fire.
-  • Should the battery pack start to leak or emit a strange odor, immediately move it away from any nearby flame. Leaking battery fluid is combustible, and exposure to flame creates the danger of explosion and fire.
- Should fluid from the battery pack accidentally get into your eyes, do not rub them. Immediately rinse your eyes with clean tap water and then consult a physician immediately.

Caution




-  • Never use or leave the battery pack in an area exposed to direct sunlight, in a car parked in direct sunlight, or any other very hot area. Doing so creates the danger of heat emission and fire, as well as deterioration of battery pack performance and shortening of its service life.
- Do not use the battery pack in areas where static electricity is being generated. Doing so creates the danger of battery pack heat emission, explosion, and fire.
-  • Danger of explosion if the battery pack is incorrectly replaced.
Replace only with same or equivalent type recommended by CASIO.
Dispose of used batteries according to the local regulation.
- Should fluid from the battery pack accidentally get onto clothing or your skin, immediately rinse it off with clean tap water. Prolonged contact with battery pack fluid can cause skin irritation.
- Keep the battery pack out of the reach of small children. Do not let small children remove the battery pack from battery charger or the Handheld Terminal while it is powered on.

AC Power Supply

Warning

-  Do not use the Handheld Terminal at a voltage other than the specified voltage. Also, do not connect the Handheld Terminal to a multi-plug power strip. Doing so creates the danger of fire and electric shock.
- Avoid conditions that can cause damage or breaks in the power cord. Do not place heavy objects on the power cord and keep it away from sources of heat. Any of these conditions can damage the power cord, creating the danger of fire and electric shock.
- Never modify, sharply bend, twist, or pull on the power cord. Doing so creates the danger of fire and electric shock.
-  When using the battery chargers and the cradles, be sure to use the respective AC adaptors (sold separately). Use of other AC adaptor model creates the danger of fire and electric shock.
- Should the power cord become severely damaged (to the point that wires are exposed or broken), contact an authorized CASIO service provider about repair or replacement. Use of a damaged electrical cord creates the danger of fire and electric shock.

Caution

-  Keep the power cord away from stoves and other sources of extreme heat. Heat can melt the covering of the power cord and create the danger of fire and electric shock.
-  Never pull on the power cord when unplugging it. Doing so can damage the cord and create the danger of fire and electric shock. (Always hold the plug when unplugging it from the wall outlet.)
- Never touch the plug while your hands are wet. Doing so can create the danger of electric shock.
-  Be sure to unplug the power cord from the wall outlet before moving the battery chargers and the cradles. Failure to do so can result in damage to the power cord caused by pulling it, which creates the danger of fire and electric shock.
- Be sure to unplug the power cord from the wall outlet before cleaning the battery chargers and the cradles.
- Be sure to turn the power off and unplug the power cord after use.
- Unplug the power cord from the wall outlet whenever leaving the battery chargers and the cradles unattended for a long period.

AC Adaptor

Caution



- The housing of the AC adaptor can become warm during normal use.



- Take normal precautions against electric shock.



- At least once a year, unplug the AC adaptor from the wall outlet and clean any dust that builds up between the prongs of the plug.
Dust built up between the prongs can lead to the danger of fire.

Backup Copies of All Important Data

Caution



- Note that CASIO Computer Co., Ltd. shall not be held liable to you or any third party for any damages or loss caused by deletion or corruption of data due to use of the Handheld Terminal, malfunction or repair of the Handheld Terminal or its peripherals, or due to the batteries going dead.
- The Handheld Terminal employs electronic memory to store data, which means that memory contents can be corrupted or deleted if power is interrupted due to the batteries going dead or incorrect battery replacement procedures. Data cannot be recovered once it is lost or corrupted. Be sure to make backup copies of all important data. One way to do this is to use the separately sold Cradles to transfer data to a computer.

Operating Precautions

Your Handheld Terminal and its options is a precision digital instrument. Improper operation or rough handling can cause problems with data storage and other problems. Note and observe the following precautions to ensure proper operation.

- **Do not continue operating the Handheld Terminal when battery power is low.**

Doing so can cause data to be lost. When the battery goes low, charge it as soon as possible.

- **Do not leave dead batteries in the Handheld Terminal for a long period.**

Dead batteries can leak, leading to malfunction and damage to the Handheld Terminal.

- **Use the Handheld Terminal and its options only within the specified temperature range.**

Use outside of the specified temperature range creates the risk of malfunction.

- **Avoid using the Handheld Terminal and its options in areas subject to the following conditions.**

The following conditions create the risk of damage to the Handheld Terminal.

- Large amounts of static electricity
- Extreme heat or extreme cold
- High humidity
- Sudden temperature extremes
- Large amounts of dust

- **Use only the special stylus that comes with the Handheld Terminal to operate its touch screen and reset switch.**

- **Do not use any tool other than the special stylus to operate the touch screen. Other tools can scratch the touch screen and lead to malfunction.**

- **Never use thinner, benzene, cosmetic cleaning fluids, or other volatile agents to clean the Handheld Terminal.**

To clean the Handheld Terminal, wipe it with a dry cloth, or a cloth moistened in a weak solution of water and a mild neutral detergent. Wring all excess moisture from the cloth before wiping.

Important

- The contents of this guide are subject to change without notice.
- Note that CASIO COMPUTER CO., LTD. shall not be held liable to you or any third parties for any losses or damages arising from the use of this guide.
- This guide does not include any information about programming and download procedures. See the applicable separate documentation for information about the procedures.

After Service

- Should this product ever malfunction, contact your original retailer providing information about the product name, the date you purchased it, and details about the problem.

We, the undersigned.

Company	CASIO Europe GmbH
Address, City	Bornbarch 10, D-22848 Norderstedt
Country	Germany
Phone number	+49(0)40-528-65-0
Fax number	+49(0)40-528-65-424

certify and declare under our sole responsibility that the following equipments:

Product description / Intended use	
EU/EFTA member states intended for use	EU: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Portugal, Spain, Sweden, United Kingdom EFTA: Switzerland, Iceland, Lichtenstein, Norway
Member states with restrictive use	NONE
Manufacturer	CASIO COMPUTER CO., LTD.
Brand	CASIO
Type	IT-500M30R IT-500M30CR IT-500M30B IT-500M30F IT-500M30CF IT-500M30CB

are tested and found to conform with the essential requirements for protection of health and the safety of the user and any other persons and Electromagnetic Compatibility, as included in following standards:

Standard	Issue date
EN60950	1992
A1,	1993
A2,	1993
A3,	1995
A4,	1997
A11,	1997
EN301 489-1,	2001-09
EN301 489-17	2000

and are tested and found to conform with the essential radio test suites so that they effectively use the frequency spectrum allocated to terrestrial/space radio communication and orbital resources so to as to avoid harmful interference, as included in following standards:

Standard	Issue date
EN300-328-1	2000-07
EN300-328-2	2001-12

and therefore comply with the essential requirements and provisions of the **Directive 1999/5/EC** of the European Parliament and of the council of March 9, 1999 on Radio equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity and with the provisions of Annex III (Conformity Assessment procedure referred to in article 10).

The technical documentation as required by the Conformity Assessment procedure is kept at the following address:

Company	CASIO Europe GmbH
Address, City	Bornbarch 10, D-22848 Norderstedt
Country	Germany
Phone number	+49(0)40-528-65-0
Fax number	+49(0)40-528-65-424

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The Netherlands limited to 2400-2483.5 Mhz Indoor use with no license, 2451-2471.0
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The information described above dates from January 2003 and may be subjected to future
changes.



CASIO Europe GmbH
Bornbarch 10,
D-22848 Norderstedt, Germany

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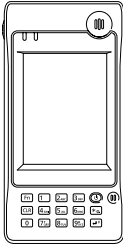
Before Getting Started

Be sure to perform the following steps before trying to use the Handheld Terminal for the first time.

1. When unpacking, make sure that everything is included.

Open the box and make sure that all the items shown here are included.

Handheld Terminal

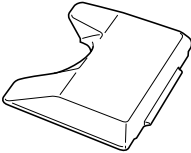


Stylus

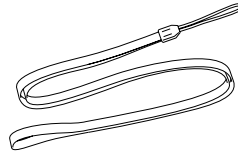


The stylus is attached to the Handheld Terminal.

Large-capacity battery pack cover

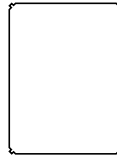


Neck Strap



User's Guide (this manual)

Touch Screen Protective Sheet



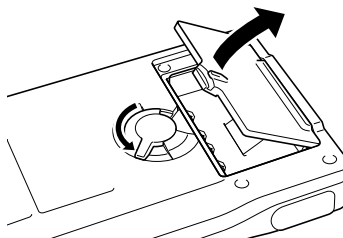
2. Charge the battery pack.

Charge the separately available battery pack (DT-5123BAT or DT-5124LBAT). You can use the Dual Battery Charger, or the Cradle-type Battery Charger, or the Bridge Satellite Cradle to charge a battery pack.

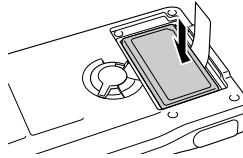
For information using these options for charging, see pages 38, 47, and 51.

3. Load the battery pack into the Handheld Terminal.

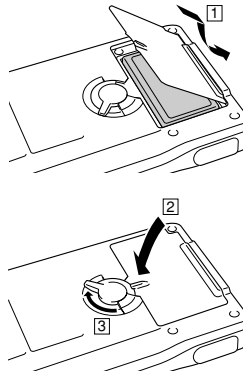
- ① Turn the battery pack lock switch to the "FREE" position, and then remove the battery pack cover.



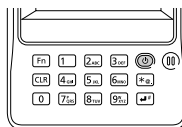
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- ② Load a battery pack (DT-5123BAT) or large-capacity battery pack (DT-5124LBAT). Take care that the battery pack is oriented correctly when you load it. In addition, load the battery back while making sure that the end of the battery pack removal tape is protruding above the battery pack.



- ③ Replace the rechargeable battery pack cover as shown in the diagram and then return the rechargeable battery pack cover switch to the “LOCK” position. When loading a large-capacity rechargeable battery pack, mount the large-capacity rechargeable battery pack cover.



4. Hold down the power key for about one second to turn on the Handheld Terminal.
Start up the application you want to run.



Using the stylus

Tap: Lightly tap with the stylus once on the touch screen.

Tap and Hold: Hold the tip of the stylus on the touch screen without moving it.

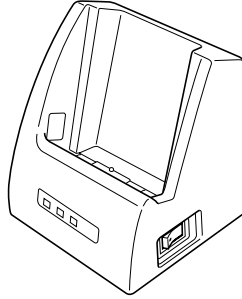
Drag: Hold the tip of the stylus on the touch screen as you drag from one location to another. This operation is the same as writing with a pencil on a piece of paper.

Handheld Terminal System Configuration

Options

Bridge Satellite Cradle (IT-564IOE)

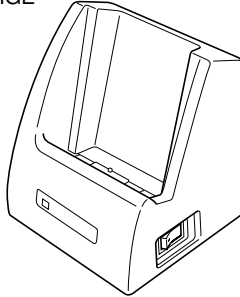
Bridge Basic Cradle (IT-560IOE)



Required AC Adaptor
(AD-S42120A)

Cradle-type Battery Charger

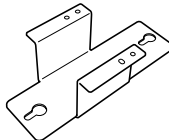
IT-569CHGE



Required AC Adaptor
(AD-S42120A)

Wall Mount Unit

DT-891WH



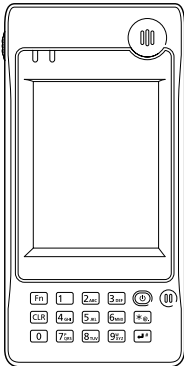
Required
Screws



Required
Screws

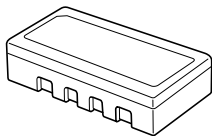


IT-500 Series

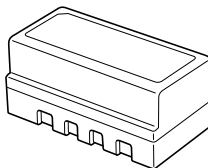


Battery Pack

DT-5123BAT
(Battery Pack)

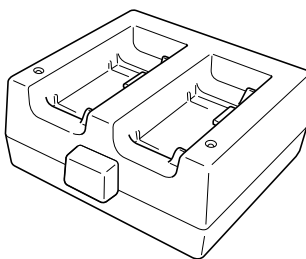


DT-5124LBAT
(Large-capacity Battery Pack)



Dual Battery Charger

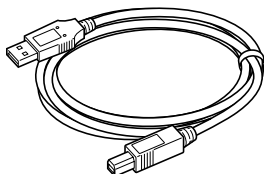
DT-5122CHGE



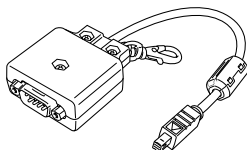
Required AC Adaptor
(MPC-577ADP)

Cables

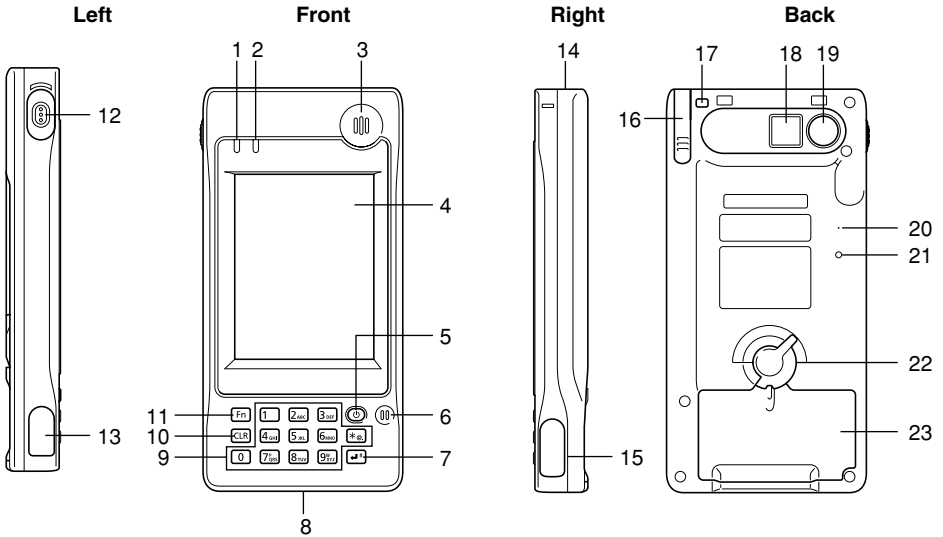
DT-887AXA	Bridge Satellite Cradle Cable/RS-232C Dsub-9Pin (Female)
DT-888RSC	Bridge Daisy Chain Cable
DT-380USB	USB Cable



DT-5180RSC	Level converter Cable
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General Guide



1	Indicator 1	This lamp indicates the charge status of the battery pack. Red: Charging Green: Charging complete
2	Indicator 2	Indicates the result of a barcode or other read operation. Red: Read error Green: Read successful
3	Receiver	Outputs audio.
4	LCD Panel/Touch Screen	Shows text, operation indicators, etc. Also, operations can be performed and text can be input using the supplied stylus.
5	Power Key	Hold down for about one second to turn the power on or off.
6	Mic	Inputs audio.
7	Execute Key	Press to register an input value and advance to the next step.
8	Power supply terminal	Used to supply power from the Cradles and Cradle-type Battery Charger.
9	Numeric Keys	Use these keys to input numbers and letters.
10	CLR Key	Press to clear all key inputs.
11	Fn Key	Press when switching to the input mode. In combination with the numeric keys, each setting is performed while it is also used when starting application which have been registered beforehand.
12	Trigger Key	Press to perform a barcode read operation. This is also pressed before performing full reset.

13	IR Port	This port is used for IR data communication with another Handheld Terminal or the Cradles.
14	Reader port	Emits a laser that reads bar codes.
15	Serial Port	Connected to the separately sold level converter cable.
16	Stylus	Used during input from touch screen.
17	Neck strap hole	Attach the neck strap here.
18	Mirror	Confirms object being photographed when photographing with the camera lens facing towards you.
19	Camera Lens	Used when photographing or capturing images. (IT-500M30CR/M30CF/M30CB only)
20	Buzzer	Sounds a buzzer.
21	Reset Switch	Press to reset the Handheld Terminal.
22	Battery Pack Cover Lock Switch	Slide the switch to lock and release the battery pack cover.
23	Battery Pack Cover	Covers the compartment that holds the battery pack.

Replacing the Battery

Your Handheld Terminal uses two types of battery: a battery pack and a memory backup battery.

The battery pack is used to power normal operations and to store data, while the memory backup battery provides the power required to maintain memory contents when the battery pack power is unable to supply power for some reason.

The operating power is supplied by a battery pack. You can choose between a battery pack (DT-5123BAT) and a large-capacity battery pack (DT-5124LBAT).

The backup battery is installed inside of the Handheld Terminal.

This guide uses the following terms to refer to the batteries.

Battery Pack: Rechargeable battery pack (DT-5123BAT or DT-5124LBAT) for normal operations and data storage

Backup Battery: Built-in battery for memory backup

When the battery pack power goes low, immediately charge it or replace it with a charged battery pack.

You can use the Dual Battery Charger, the Cradle-type Battery Charger, the Bridge Basic Cradle, or the Bridge Satellite Cradle to charge a battery pack. See the sections of this guide that cover the Dual Battery Charger, the Cradle-type Battery Charger, the Bridge Basic Cradle, and the Bridge Satellite Cradle for information about how to use them for charging.

Replacing the Battery Pack

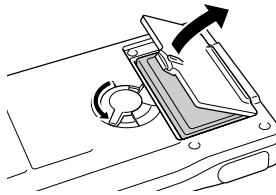
Important!

Always keep backup copies of all important data!

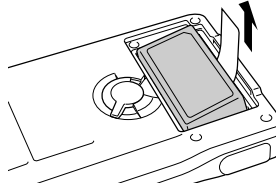
- **The main battery powers normal operation and also provides power required to maintain memory contents, while the backup battery provides backup power to maintain memory contents. Because of this, you should not remove the main battery while the backup battery is dead. Removing the battery pack while the backup battery is dead causes data in the memory to be corrupted or lost. Note that once data is lost it cannot be recovered. Always keep separate backup copies of all important data.**
- **The charge of a battery pack when you purchase it may be depleted due to testing at the factory or natural discharge during shipment and storage. Be sure to charge the battery pack before you use it.**
- **The life of a battery pack is limited, and charging a battery pack causes it to gradually lose its ability to maintain the charge. If your battery pack seems to require charging very frequently, it probably means it is time to purchase a new one.**
- **A fully charged backup battery can maintain memory (RAM) contents for about 10 minutes, even when the main battery is removed.**
- **The backup battery achieves a full charge in about four days when the battery pack is loaded.**

To replace the battery pack

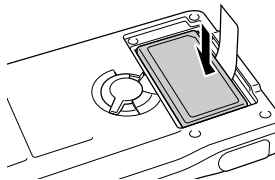
1. Make sure that the Handheld Terminal is turned off.
If the power is on, press the power key to turn it off.
2. Turn over the Handheld Terminal.
3. Turn the battery pack lock switch on the back of the Handheld Terminal to the "FREE" position, and then remove the battery pack cover.



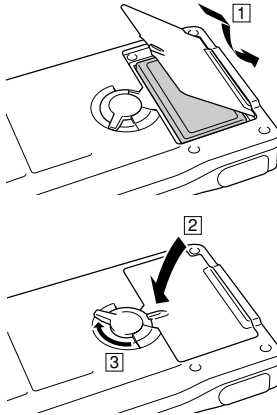
4. Remove the battery pack as shown in the illustration.



5. Taking care to ensure it is oriented correctly, load a new battery pack into the Handheld Terminal. Load the battery back while making sure that the end of the battery pack removal tape is protruding above the battery pack.



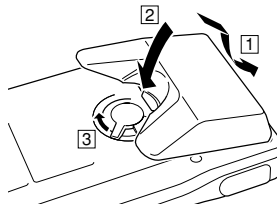
-
6. Replace the rechargeable battery pack cover as shown in the diagram and then return the rechargeable battery pack cover switch to the “LOCK” position.



Loading the large-capacity battery pack into the Handheld Terminal

After loading the large-capacity battery pack, you need to use the special large-capacity battery pack cover in place of the standard battery cover.

Attachment and removal of the large-capacity battery pack cover are the same as those for the standard battery pack cover.



Important!

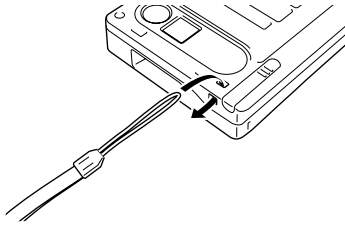
- When replacing the battery pack, make sure you do not leave the Handheld Terminal without a battery pack for more than about 10 minutes. Doing so can cause data in the memory to be deleted.
- When replacing the battery, be sure you carefully follow the proper procedure as explained in this guide.
- Never try to use other type of battery than the ones that are specified for this product.

Attaching the Neck Strap

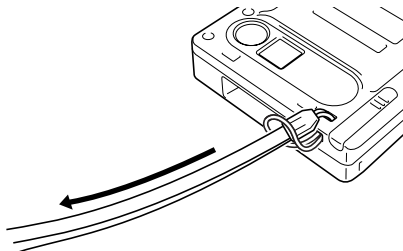
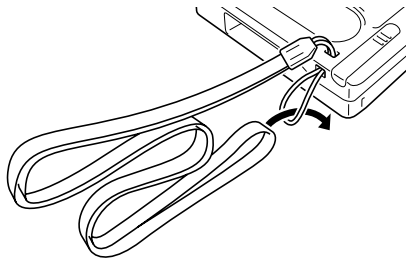
Be sure to attach the neck strap and use it to protect against dropping the Handheld Terminal when carrying it around.

To attach the neck strap

1. Pass the thin cord of the neck strap through the neck strap hole on the back of the Handheld Terminal.



2. Pass the other end of the strap (the part you put around your neck) through the loop formed by the thin cord.



Important!

Do not swing the Handheld Terminal around holding the neck strap.

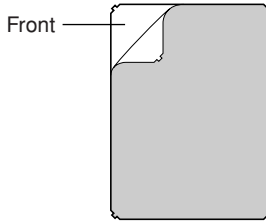
Attaching the Touch Screen Protective Sheet

Attach the touch screen protective sheet according to the procedure described below.

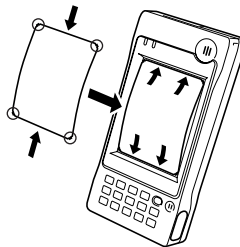
Important!

Do not press on the touch screen with excessive force when attaching the touch screen protective sheet. This can damage the touch screen.

1. Switch the power of this unit OFF and remove any dust or other debris from the touch screen.



2. Peel off the film (green) affixed to the front of the protective sheet.
 - If you have difficulty in peeling off the film, use a piece of cellophane tape. (After cutting a piece of cellophane tape to a suitable length, hold onto one end of the piece of cellophane tape and press the adhesive side of the other end of the tape onto the green film. The film can be peeled off easily by then pulling up on the tape.)
 - The opposite of the surface where the film was affixed is the surface that is attached to the touch screen.
3. With its front side (the side to which the film was attached) towards you, fix the upper and lower sides of the protective sheet properly to the touch screen. If you encounter difficulties fixing it properly, carefully bend the slight projections at the four corners of the protective sheet to the front.



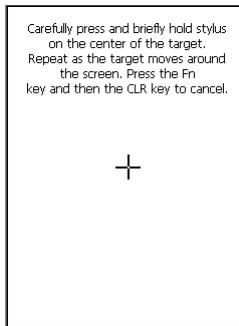
- Be careful so that dust and other debris is not allowed to get between the touch screen and the protective sheet. Using the Handheld Terminal with dust or other debris trapped between the touch screen and protective sheet can damage the touch screen.

Configuring Handheld Terminal Settings

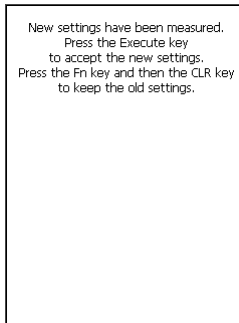
Calibrating Touch Screen Alignment

Whenever the response of the touch screen is poor, or the operations being executed do not match with the location you are tapping on the touch screen, please recalibrate the alignment of the touch screen using the following method.

- Press the “Fn” key and then press the “4” key after confirming that “F” is displayed in the lower right corner of the screen. The following screen is displayed.
- * The following screen can also be displayed by consecutively tapping “Stylus” on the control panel.



- Press the stylus against the center of the target mark (+ mark) as indicated on the screen. The screen shown below appears after you press the stylus against the target at five different locations.



- Press the Execute key or tap anywhere on the touch screen.

Adjusting Display Contrast

Perform the following procedures to adjust display contrast to make display colors more vivid and easier to see.

- Press the “Fn” key and then press the “2” key or “3” key after confirming that “F” is displayed in the lower right corner of the screen. Pressing the “2” key adjusts for more contrast, while pressing the “3” key adjusts for less contrast.
- * In order to continue to make adjustments, press the “2” key or “3” key after again first pressing the “Fn” key.
- * Contrast settings can also be made by consecutively tapping “Brightness” on the control panel.

Adjusting Display Brightness

You can use the following procedures to adjust display brightness to make it easier to read under different lighting conditions.

- Press the “Fn” key and then press the “5” key or “6” key after confirming that “F” is displayed in the lower right corner of the screen. Pressing the “5” key adjusts brightness for a darker display, while pressing the “6” key adjusts brightness for a lighter display.
- * In order to continue to make adjustments, press the “5” key or “6” key after again first pressing the “Fn” key.
- * Brightness settings can also be made by consecutively tapping “Brightness” on the control panel.

Important!

- **If you use your Handheld Terminal in a location where it is hot, it automatically dims the screen to protect against damage.**

Display Auto Dimmer

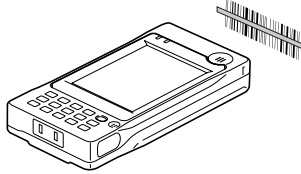
The display auto dimmer automatically lowers display brightness if you do not perform any operation for a specific amount of time. This helps to conserve battery power.

You can use the following procedure to specify the amount of that should be allowed to pass before auto dimming is performed.

- Select “Control Panel” on the “Settings” menu after tapping the “Start” button in the lower left corner of the screen. Next, consecutively tap the “Brightness” icon and then tap “Backlight” to set the displayed parameters.

Using the Laser Scanner

1. After turning on the power, position the laser scanner close to a bar code and then press the trigger key.



2. The laser emits light and scans the bar code. If scanning is completed normally, Indicator 2 displays a green light and a buzzer sounds. If the bar code was not scanned properly, Indicator 2 indicates a red light.

Important!

- **If you are unable to scan a bar code, try changing the angle at which the scanner is held or distance from the scanner to the bar code, and then try scanning again.**
- **This Handheld Terminal is capable of scanning bar codes at a distance of about 40-300 mm (1⁵/₈"-11⁷/₈"). Furthermore, the distance at which scanning is possible may vary according to the type of bar code.**

Warning Label

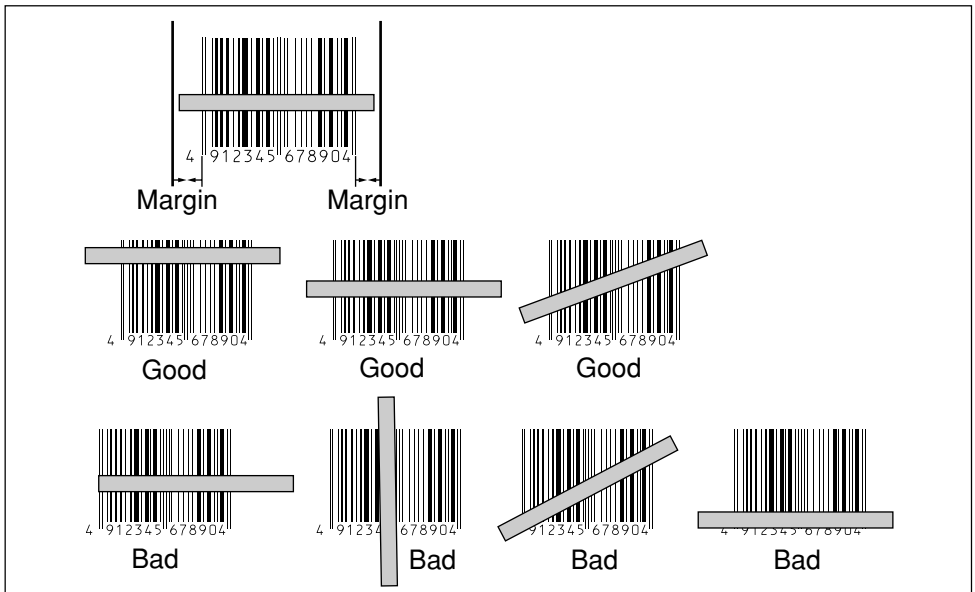


- This label is a warning and caution label for Class 2 laser products that comply with IEC60825-1:1993+A1:1997.
- Although Class 2 laser light is only emitted momentarily, never look directly into the beam light.
- **CAUTION**
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The laser light emitted by this laser scanner has a maximum output of less than 1 mW and a wavelength of 650 nm.

Bar Code Scanning Position

Position the laser scanner close to the bar code when scanning small bar codes.

Position the laser scanner at a distance from the bar code so that the bars enter the light when scanning large bar codes.



Warning!

■ Never look directly into the laser light.



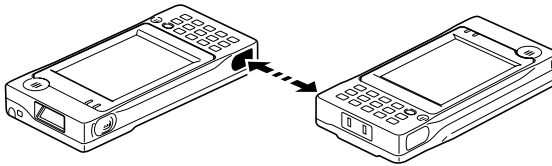
- This product scans using laser light. Never look directly into the laser light or shine the laser light into the eyes.

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Performing Data Communication

IR Data Communication

IR data communication can be used to transfer data between two Handheld Terminals. When performing IR data communication, orient the IR ports of both Handheld Terminals so they are pointing directly at each other. The ports can be in direct contact with each other, or they can be separated by up to 1 meter (3'3½") (up to 25cm (9⅞") for 4Mbps data communication).



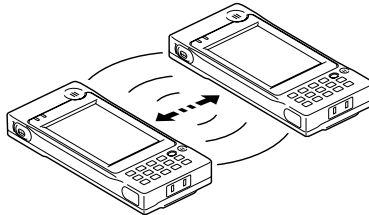
Important!

- A high-sensitivity communication element is used during IR data communication.
- In order to ensure successful communication, avoid using cellular phones or other devices that emit radio wave in the area where you are performing IR data communication.
- If you need to use such a device, move away from the communicating Handheld Terminals. In case of a cellular phone, keep it at least 30cm (11⅞") away.

Bluetooth™ Data Communication (IT-500M30B/M30CB)

Bluetooth™ protocol can also be used to transfer data between two Handheld Terminals.

With Bluetooth™ the two Handheld Terminals should be located within about three meters (9'10³/₈") from each other, as long as there is nothing blocking the path between them.



Important!

Observe the following precautions to help ensure that data communication is successful.

- **Make sure the Bluetooth™ devices are located within three meters (9'10³/₈") of each other. Surroundings (obstacles) may require a shorter distance between the two devices.**
- **Make sure there is at least two meters (6' 7") between this device and other devices (electrical appliances, audio-visual equipment, OA equipment, and digital cordless telephones, facsimile machines, etc.). (Take special care with microwave ovens. Allow at least three meters (9' 10³/₈") between communicating devices and a microwave oven.) When approaching such a device when its power is turned on, proper data communication may prove impossible while this may also cause interference with TV and radio reception (images produced by certain UHF and broadcast satellite channels may become blurry).**
- **Normal data communication may not be possible in an area near a broadcast transmitter or wireless transmitter. If this happens, move to a different location. Normal data communication may not be possible in areas exposed to strong radio waves.**

- **RF Wireless LAN Interference**

Because Bluetooth™ and RF wireless LAN use the same frequency band (2.4GHz), radio interference can occur if there is a wireless LAN device nearby. This can result in lower data communication speeds, or even make it impossible to establish a connection. If this happens, try the following countermeasures.

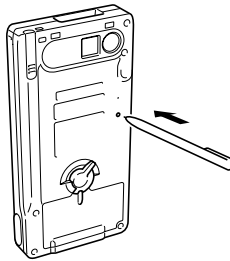
- **Move at least 10 meters (32'10³/₄") away from the wireless LAN device.**
- **If you cannot keep the distance at least 10 meters (32'10³/₄") or more between the Handheld Terminal and a wireless LAN device, turn off the power of either the Handheld terminal or the wireless LAN device.**
- **Set the RF wireless LAN mode of the Handheld Terminal to off.**

Resetting the Handheld Terminal

Resetting the Handheld Terminal is the same as restarting a computer. Performing a reset causes all unsaved inputs and edits to be lost, but data that is already stored in the memory as well as all settings should be unaffected.

Use reset to restore normal operation whenever the Handheld Terminal operates abnormally due to misoperation or some other reason.

Use the stylus to press the reset switch on the back of the Handheld Terminal. This starts the reset operation.



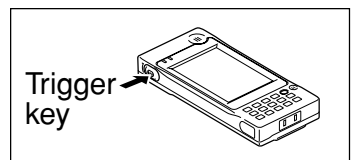
If reset does not find a memory problem

The Handheld Terminal restarts, and normal operation is restored.

If reset finds a memory problem

A message like the one shown below appears on the display when the reset operation discovers a memory problem.

Memory Corruption Warning
A problem with memory contents has been found. Press [Trigger key] to continue with the reset procedure, which restores normal system operation.
Note that if the system determines that user memory cannot be repaired, it will delete all user data current in memory.
See the User's Guide for detail about installing memory.



When this message appears, press the Trigger key to continue with the reset operation. Note, however, that reset may not be successful depending on the condition of the memory. In this case, perform the full reset operation described on the next page.

Performing a Full Reset (Initialization)

Performing a full reset initializes memory. This means that all data stored in the memory (RAM) is deleted and all the settings are returned to their initial factory defaults.

Perform a full reset whenever any one of the following conditions exists.

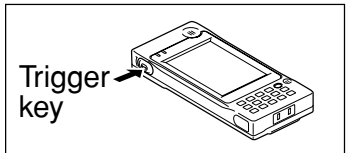
- When you want to delete all memory contents and return the settings to their initial factory defaults.
- When you are no longer able to use the Handheld Terminal because you forgot your password.
- When the Handheld Terminal does not operate normally due to a memory problem.
- When the message “A problem with memory contents has been found. ...” appears.

To perform a full reset Important!

Performing a full reset deletes all data currently stored in the memory (RAM). If possible, backup data of the Handheld Terminal to a computer, Flash Memory, a memory card, or some other medium before performing a full reset.

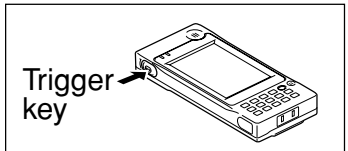
1. Hold down the power key and push down the reset switch for about one second, until the message shown below appears on the display.
 - To cancel the full reset operation, press the CLR key.

*Memory All Clear Warning
Proceeding with this operation initializes memory.
Press [Trigger key] to proceed
or [CLR key] to cancel.*



2. Press the Trigger key. This causes the message shown below to appear.
 - To cancel the full reset operation, press the CLR key.

*Memory All Clear Warning
Proceeding with this operation deletes all data
stored in memory.
Press [Trigger key] to proceed
or [CLR key] to cancel.*



3. Press the Trigger key again.

- Full reset is performed, all data in the memory (RAM) are erased and the start-up screen is displayed.

IT-500 Specifications

Model:	IT-500M30, IT-500M30R, IT-500M30B, IT-500M30CR, IT-500M30F, IT-500M30CF, IT-500M30CB
CPU:	Intel® PXA255 Application Processor (400MHz max.)
Memory:	32MB RAM; 32MB Flash ROM (FlashFX built in)
OS:	Microsoft® Windows® CE.NET operating system, English Version
Display:	3.5-inch, 240 × 320-dot 2-Way TFT color LCD
Laser scanner:	
Scanned codes:	EAN (JAN), UPC, Codabar (NW-7), ITF, CODE39, CODE128, MSI,IATA, Industrial 2 of 5, EAN128
Scanning distance:	Within approximately 40-300 mm (1 ³ / ₈ "-11 ⁷ / ₈ ")
Serial Port:	
Transfer Rate:	115Kbps (max.)
IR Port:	
Interface:	IrDA Ver. 1.1 Standard
Synchronization:	Asynchronous, frame synchronization
Transfer Rate:	Up to 4Mbps (max.)
Bluetooth™ Data Communication (IT-500M30B/M30CB) :	
Protocol:	Bluetooth™ Specification Ver.1.1
Range:	Approximately 3 m (9'10 ³ / ₈ ") (depends on radio wave conditions and environment)
Output:	3dBm max. (PowerClass2)
Wireless Communication (IT-500M30R/M30CR/M30F/M30CF):	
Standard:	Complies with IEEE 802.11b
Diffusion Modulation:	Direct Sequence Spread Spectrum
Frequency:	2.400-2.4835 GHz
Transmission Rate:	Max. 11 Mbps
Transmission Distance:	50 m (164'5 ⁵ / ₈ ") indoors, 150 m (493'5") outdoors (varies according to usage environment)
No. of Channels:	13 (of which 3 channels can be used simultaneously) IT-500M30R/M30CR 11 (of which 3 channels can be used simultaneously) IT-500M30F/M30CF
Other Functions:	Roaming function between multiple access points
Digital Color Camera (IT-500M30CR/M30CF/M30CB):	
Approx. 350,000 pixels	
Power Requirements:	
Power Supply:	DT-5123BAT Battery Pack DT-5124LBAT Large-capacity Battery Pack
Memory Backup:	Rechargeable Lithium Battery (Built-in)
Power Consumption:	5A DC, 3.7 to 5V

Battery Life:

Main battery:

IT-500M30/M30B/M30CB

Approximately 4 hours (DT-5123BAT)*

Approximately 8 hours (DT-5124LBAT)*

IT-500M30R/M30CR/M30F/M30UCF

Approximately 4 hours (DT-5123BAT)*

Approximately 8 hours (DT-5124LBAT)*

Approximately 3 hours (DT-5123BAT)**

Approximately 7 hours (DT-5124LBAT)**

*In the case of Standby (20): Operation (1): Scanning (1)

**In the case of Standby (20): Operation (1): Scanning (1):
Wireless (1)Memory backup: Data Protection (RAM): 10 minutes (when
no power is being supplied by the installed
battery)**Operating Temperature:** -10°C to 50°C (-4°F to 122°F)**Operating Humidity:** 10% to 80% RH (non-condensation)**Drop Durability:** 1.0 m (3'3½")**Dust and Water Splash Proof:**

IEC529, IP54 Standard

*When all connectors and covers are closed.

Dimensions:Approximately 78(W) × 162(D) × 20(H) mm (3"W × 8⅝"D × 1⅞"H)
(not including projections)**Weight:**

Approximately 260g (9.2oz)(IT-500M30/M30B/M30CB)

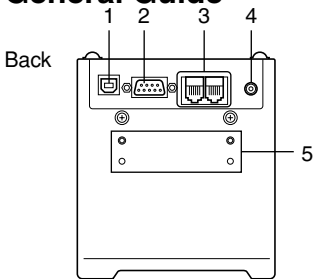
Approximately 280g (9.9oz)(IT-500M30R/M30CR/M30F/M30CF)

Using the Bridge Satellite Cradle (IT-564IOE)/Bridge Basic Cradle (IT-560IOE)

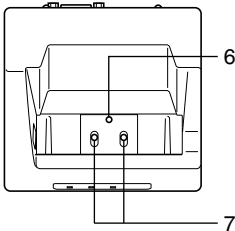
The optionally available Bridge Satellite Cradle (IT-564IOE)/Bridge Basic Cradle (IT-560IOE) make it possible to transfer system data and file data between the IT-500 and a computer over an RS-232C connection or USB connection (USB only for the IT-560IOE) (download or upload). You can also use the Bridge Satellite Cradle/Bridge Basic Cradle to charge the battery pack installed on the IT-500.

An optionally available wall mount unit lets you mount the Bridge Satellite Cradle/ Bridge Basic Cradle on a wall.

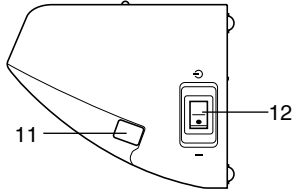
General Guide



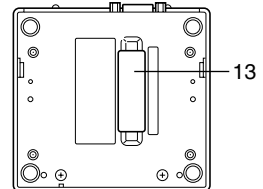
Top



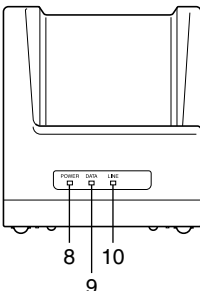
Right



Bottom



Front



Option

Required AC Adaptor
(AD-S42120A)

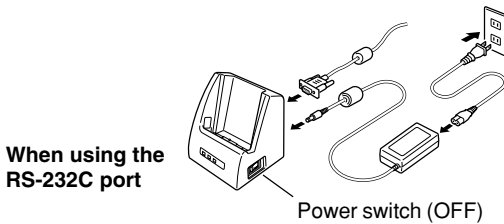


1	USB Port	This port accepts connection of a USB cable for connection to a computer for transfer of system data and file data. Use of the USB port requires installation of a special driver on the PC.
2	RS-232C Port (IT-564IOE only)	This port accepts connection of an RS-232C cable for connection to a computer for transfer of system data and file data. Use of the RS-232C port requires installation of a special driver on the PC.
3	RS-422C Port (IT-564IOE only)	This port is used when connecting to another Bridge Satellite Cradle.
4	AC Adaptor Jack	Connect the AC adaptor here.
5	Wall Mount Unit Fastening Plate	The holes in this plate accept screws that secure the wall mount unit in place.
6	Terminal Detect Switch	This switch detects when the IT-500 is seated correctly on the Cradle.
7	Power Contacts	Power is supplied to the IT-500 via these contacts.
8	Power Indicator Lamp	This lamp indicates the power status and the mounting status of the IT-500. Off: Power off Green: Power on, IT-500 mounted correctly Red: Power on, IT-500 not mounted
9	Communication Indicator Lamp (IT-564IOE only)	This lamp shows that the IT-500 is performing data communication via a serial interface (RS-232C/RS-422). Off: No data communication being performed Green flashing: Data communication in progress Red: Problem with a connection between two Cradles
10	System Status Indicator Lamp	This lamp indicates whether the system is operating normally. Regardless of whether or not an IT-500 is mounted this lamp indicates the system status and whether or not a communication operation with the system can be performed. Off: System is not operating. Green: System is operating.
11	IR Port	This port transfers data with the IT-500 IR port non-contact data communication.
12	Power Switch	Turns the power on and off.
13	DIP Switches (IT-564IOE only)	Use these switches to configure the Cradle as required.

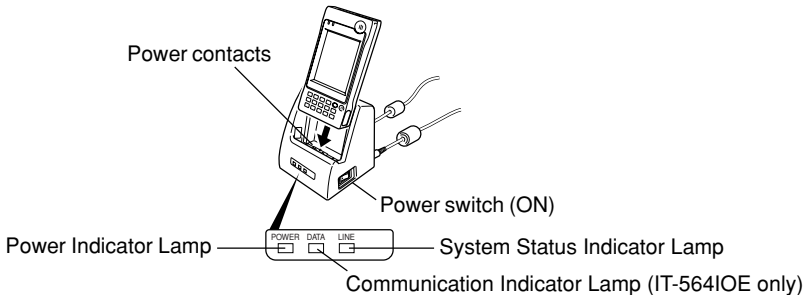
Connecting the AC Adaptor and Connecting to Computer

Use the AC adaptor available as option for the Bridge Satellite Cradle/Bridge Basic Cradle to supply the power to it. Always make sure that the power is being supplied to the Bridge Satellite Cradle/Bridge Basic Cradle by the AC adaptor before performing any type of data communication operation with the IT-500. The IT-500 draws the power via the Bridge Satellite Cradle/Bridge Basic Cradle during data communication.

1. After making sure that the Bridge Satellite Cradle/Bridge Basic Cradle power switch is turned off, plug the AC adaptor into the AC adaptor jack on the back.



2. Next, plug the AC adaptor into a power outlet.



3. After making sure that the Bridge Satellite Cradle/Bridge Basic Cradle and your computer are both turned off, remove the cap from the RS-232C interface (IT-564IOE only) or USB interface on the back of the Bridge Satellite Cradle/Bridge Basic Cradle, and connect to your computer with an RS-232C cable (DT-887AXA) or USB cable (DT-380USB).

Be sure to keep the Bridge Satellite Cradle/Bridge Basic Cradle connection ports covered whenever you are not using them.

RS-232C Connection

- Connect an RS-232C cable (DT-887AXA) to the RS-232C port of the Bridge Satellite Cradle. Connect the other end to your computer's RS-232C port.

USB Connection

- Connect a USB cable (DT-380USB) to the USB port of the Bridge Satellite Cradle/Bridge Basic Cradle. Connect the other end to your computer's USB port.

-
4. Turn on the power. This causes the Bridge Satellite Cradle/Bridge Basic Cradle power indicator lamp to light in red.
 5. Making sure that their two IR ports come into contact with each other, place the IT-500 onto the Bridge Satellite Cradle/Bridge Basic Cradle. This causes the Bridge Satellite Cradle/Bridge Basic Cradle power indicator lamp to light in green.
 - If the system is operating normally and data communication is enabled, the system status indicator lamp lights in green.
 - The communicator indicator lamp flashes in green when communication starts via a serial interface (RS-232C/RS-422).

When charging is initiated, indicator 1 on the IT-500 lights up in red. When charging has been completed, indicator 1 on the IT-500 changes color from red to green.

Important!

- **A high-sensitivity communication element is used during IR data communication.**

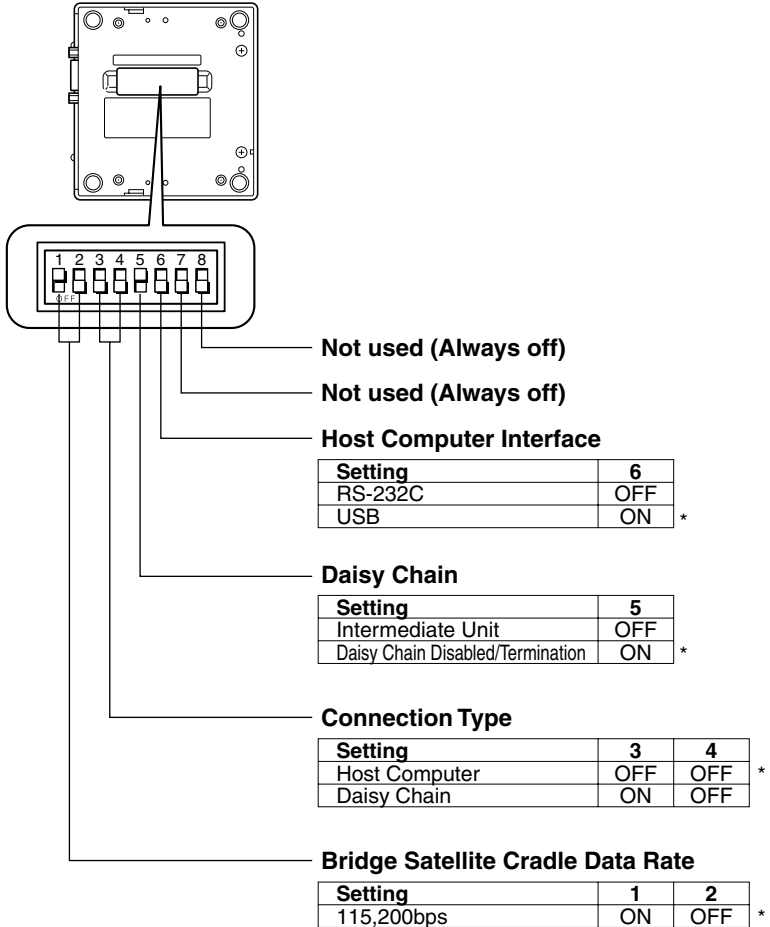
In order to ensure successful communication, avoid using cellular phones or other devices that emit radio wave in the area where you are performing IR data communication.

If you need to use such a device, move away from the communicating Handheld Terminals. In case of a cellular phone, keep it at least 30cm (11 $\frac{7}{8}$ ") away.

- **Take care to avoid allowing the Bridge Satellite Cradle/Bridge Basic Cradle power contacts to become connected to each other, which creates a short. Shorting the power contacts can damage the Cradle.**

Configuring DIP Switch Settings (IT-564IOE only)

Dismounting the bottom cover of the Bridge Satellite Cradle exposes the DIP switches. You can change the ON/OFF settings of the DIP switches to set the configuration. Please, set after switching OFF the power.



*Initial factory default setting

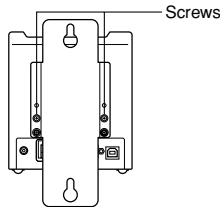
Important!

Note that other DIP settings are used for testing and inspection purposes. Because of this, you should never use any DIP settings other than those described above.

Using Wall Mount Unit

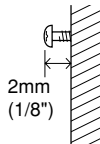
The following procedure explains how to use the optional wall mount unit (DT-891WH) to configure the Bridge Satellite Cradle/Bridge Basic Cradle for a wall-mounted configuration.

1. Affix the wall mount unit to the bottom of the Bridge Satellite Cradle/Bridge Basic Cradle, and secure it in place with the wall mount unit screws.

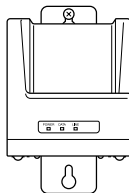


2. Drive one of the provided screws into the wall at the location where the upper hole of the wall mount unit to be when you mount the unit on the wall.

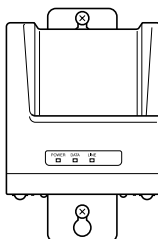
Do not drive the screw into the wall all the way. Keep a space of about 2mm ($\frac{1}{8}$ ") between the head of the screw and the wall surface.



3. Hook the upper wall mount unit hole onto the upper screw.



4. Drive the other screw into the wall at the location where the lower hole is located.



5. Drive the upper screw and lower screw into the wall the rest of the way.

To remove the Bridge Satellite Cradle/Bridge Basic Cradle from the wall

1. Loosen the upper screw and lower screw.
2. Raise the Bridge Satellite Cradle/Bridge Basic Cradle and remove it from the screws.

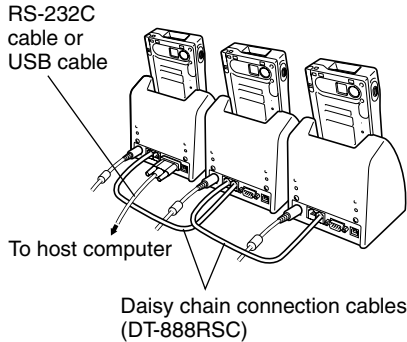
Important!

- **While the Bridge Satellite Cradle/Bridge Basic Cradle is mounted on a wall, be sure to check the wall screws periodically for looseness. Tighten them as required.**
- **Note use of the RS-232C cable is not supported by the wall-mounted configuration. Connect using a USB cable or daisy chain cable.**
- **Wall mounting may be difficult depending on the condition of the wall.**

Connecting Multiple Bridge Satellite Cradles (IT-564IOE)

Use the modular cable for the connections.

You can daisy chain multiple Bridge Satellite Cradles by connecting the C-OUT port of the first unit that is the nearest to the host computer to the C-IN port of the next unit that is sitting to the first unit with DT-888RSC cable(Daisy chain connection cable) as shown in the figure below.



Important!

You can use optional daisy chain connection cables (DT-888RSC) to link up to eight Bridge Satellite Cradles.

Bridge Satellite Cradle (IT-564IOE)/Bridge Basic Cradle (IT-560IOE) Specifications

1. IR Data Communication

Interface:	IR interface
Protocol:	IrDA Ver. 1.1 Standard
Synchronization:	Asynchronous
Transfer Rate:	9,600, 115,200, 4Mbps (4Mbps is possible during a USB connection with the host computer only.)

2. USB

Protocol:	USB Ver1.1 Standard
Transfer Rate:	12Mbps (max.)

3. RS-232C (IT-564IOE only)

Protocol:	Full duplex
Synchronization:	Asynchronous
Transfer Rate:	115,200bps

4. RS-422 (IT-564IOE only)

Protocol:	Full duplex
Synchronization:	Asynchronous
Transfer Rate:	115,200bps

5. Charging

Charging System:	Fixed-voltage (with current limiter)
Charge Time:	Approximately 4 hours (battery pack) Approximately 8 hours (large-capacity battery pack)

6. Power Supply

Power Requirement:	AC adaptor (AD-S42120A)
Power Consumption:	DC12V approximately 1000mA (IT-564IOE) DC12V approximately 850mA (IT-560IOE)
Output to Handheld Terminal:	DC5V 1500mA (max.)

7. AC Adaptor

Model:	AD-S42120A
Input:	100V to 240V AC 50/60Hz
Output:	12V DC 3500mA

8. Dimensions and Weight

Dimensions:	Desktop: Approximately 110(W) × 103(D) × 127(H) mm (4 ³ / ₈ "W × 4 ¹ / ₈ "D × 5"H) Wall Mount: Approximately 110(W) × 148(D) × 153(H) mm (4 ³ / ₈ "W × 5 ⁷ / ₈ "D × 6"H)
Weight:	Desktop: Approximately 390g (13.8oz) (IT-564IOE) 370g (IT-560IOE) Wall Mount: Approximately 550g (19.4oz) (IT-564IOE) 530g (IT-560IOE)

9. Operating Environment

Temperature:	0°C to 40°C (32°F to 104°F)
Humidity:	30% to 80% RH (non-condensation)

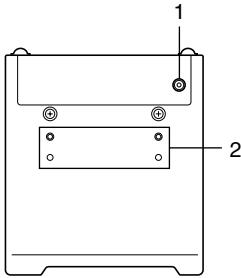
Using the Cradle-type Battery Charger

The optionally available Cradle-type Battery Charger (IT-569CHGE) lets you charge the Handheld Terminal's battery simply by placing the Handheld Terminal onto the charger.

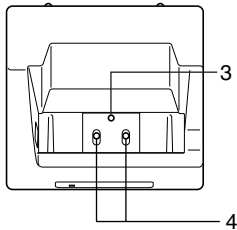
An optional wall mount unit lets you mount the Cradle-type Battery Charger on a wall.

General Guide

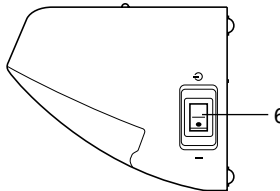
Back



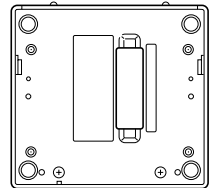
Top



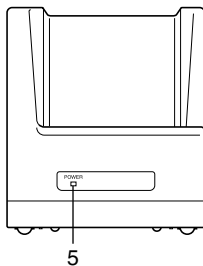
Right



Bottom



Front



Option

Required AC Adaptor
(AD-S42120A)

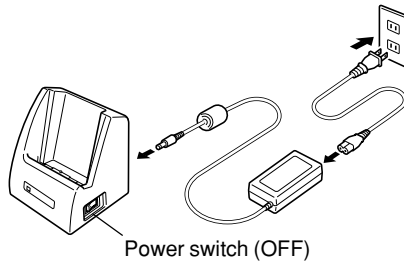


1	AC Adaptor Jack	Connect the AC adaptor here.
2	Wall Mount Unit Fastening Plate	The holes in this plate accept screws that secure the wall mount unit in place.
3	Terminal Detect Switch	This switch detects when the IT-500 is seated correctly on the Cradle.
4	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.
5	Power Indicator Lamp	This lamp indicates the power status and the mounting status of the Handheld Terminal. Off: Power off Red: Power on, Handheld Terminal not mounted Green: Power on, Handheld Terminal mounted correctly
6	Power Switch	Turns the power on and off.

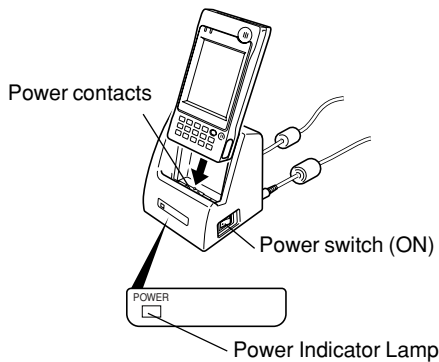
Connecting the AC Adaptor for Cradle-type Battery Charger

Use the special AC adaptor for the Cradle-type Battery Charger to connect to a wall outlet.

1. After making sure that the Cradle-type Battery Charger power switch is turned off, plug the AC adaptor into the AC adaptor jack on the back of the charger.



2. Next, plug the AC adaptor into a power outlet.
3. Turn on the power. This causes the Cradle-type Battery Charger power indicator lamp to light in red.



4. Making sure that their power contacts come into contact with each other, place the Handheld Terminal onto the Cradle-type Battery Charger. This causes the Cradle-type Battery Charger power indicator lamp to light in green.
When charging is initiated, indicator 1 on the IT-500 lights up in red. When charging has been completed, indicator 1 on the IT-500 changes color from red to green.

Important !

Take care to avoid allowing the Cradle-type Battery Charger power contacts to become connected to each other, which creates a short.

Shorting the power contacts can damage.

Using Wall Mount Unit

To wall mount the Cradle-type Battery Charger, use the same procedure as that described for the Bridge Satellite Cradle (IT-564IOE)/Bridge Basic Cradle (IT-560IOE) on page 41.

Cradle-type Battery Charger (IT-569CHGE) Specifications

1. Charging Specifications

Charging System: Fixed-voltage (with current limiter)
Charge Time: Approximately 4 hours (battery pack)
Approximately 8 hours (large-capacity battery pack)

2. Power Supply

Power Requirement: Special AC adapter (AD-S42120A)
Consumption Current: 12V DC, approximately 800mA
Output to Handheld Terminal: 5V DC 1.5A (max.)

3. AC Adapter

Model: AD-S42120A
Input: 100V to 240V AC 50/60Hz
Output: 12V DC 3500mA

4. Dimensions and Weight

Dimensions: Desktop: Approximately 110(W) × 103(D) × 127(H) mm
(4³/₈"W × 4¹/₈"D × 5"H)
Wall Mount: Approximately 110(W) × 148(D) × 153(H) mm
(4³/₈"W × 5⁷/₈"D × 6"H)
Weight: Desktop: Approximately 360g (12.7oz)
Wall Mount: Approximately 520g (18.3oz)

5. Operating Environment

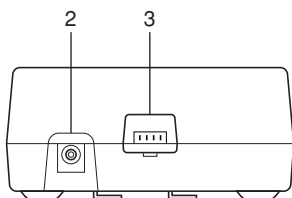
Temperature: 0°C to 40°C (32°F to 104°F)
Humidity: 30% to 80% RH (non-condensation)

Using the Dual Battery Charger

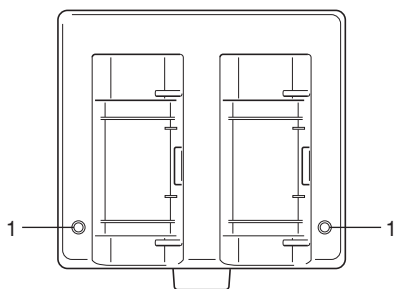
The optionally available Dual Battery Charger (DT-5122CHG) allows for serial charging of two rechargeable battery packs.

General Guide

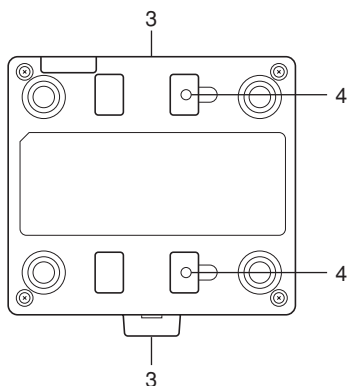
Top



Front

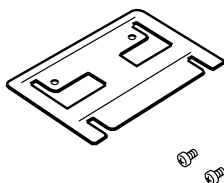


Back



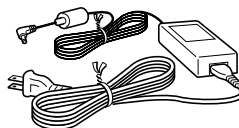
Bundled Items

Connection Bracket
2 screws



Option

AC Adaptor



MPC-577ADP

1	Charge Indicator Lamp	This lamp indicates the charge status of the battery pack(s). Off: Not charging Red: Charging Red Flashing: Battery pack problem Green: Charging complete
2	AC Adaptor Jack	Connect the AC adaptor here.
3	Dual Battery Charger Connection Port	Use this port to connect multiple Dual Battery Chargers to each other.
4	Connection Bracket Attachment Holes	The connection bracket attaches here when you connect multiple Dual Battery Chargers to each other.

Important!

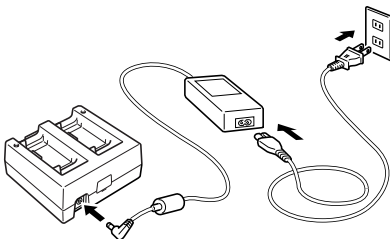
Each Dual Battery Charger comes with one connection bracket.

Since only one connection bracket is required when you connect two Dual Battery Chargers, you will always have one left over.

Simply keep the other connection bracket on hand as an extra, in case you ever need it.

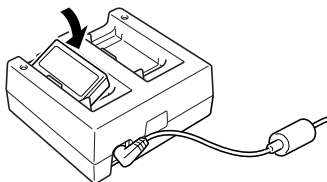
Charging a Battery Pack

1. Plug the other end of the AC adaptor into the AC adaptor jack of the Dual Battery Charger.
2. Plug the optional AC adaptor into a wall outlet.



3. Taking care that the battery pack is oriented correctly, insert it into the Dual Battery Charger.

This causes the Charge Indicator Lamp to light in red, indicating that charging has started.



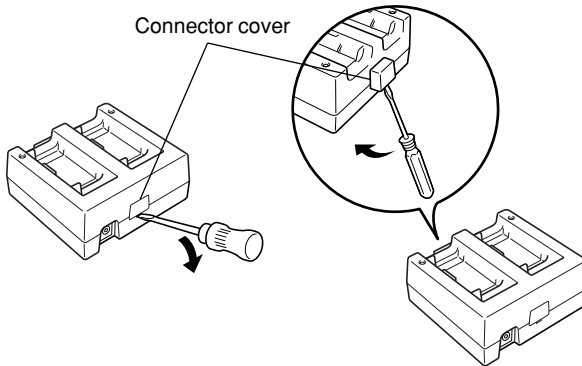
Charge Indicator Lamp

- | | |
|---------------|----------------------|
| Off: | Not charging |
| Red: | Charging |
| Red Flashing: | Battery pack problem |
| Green: | Charging complete |

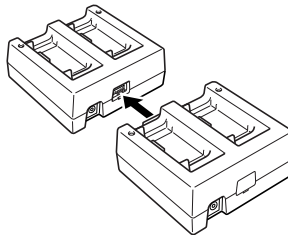
Connecting Multiple Dual Battery Chargers

You can connect up to three Dual Battery Chargers. Doing so makes it possible to supply power to all the Dual Battery Chargers using one AC adaptor.

1. As shown in the illustrations below, remove the connector covers of the Dual Battery Chargers you want to connect to each other.

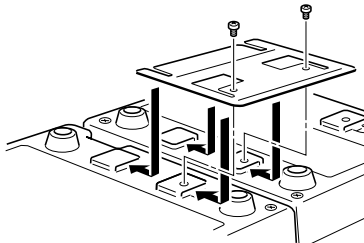


2. Connect the two Dual Battery Chargers as shown below.



3. Turn over the connected Dual Battery Chargers and attach a connection bracket, securing it in place with screws.

You can repeat the above steps to connect up to 3 Dual Battery Chargers.



Dual Battery Charger (DT-5122CHG) Specifications

- 1. Model:**
DT-5122CHG
- 2. Charging:**
Charging System: Fixed-voltage (with current limiter)
Charge Time: Approximately 2.5 hours for one battery pack
Approximately 5.0 hours for one large-capacity battery pack
Charging Two Battery Packs
Approximately 5.0 hours for two battery packs (DT-5123BAT×2)
Approximately 10 hours for two large-capacity battery packs (DT-5124LBAT×2)
- 3. Power Supply:**
Power Requirement: AC adaptor MPC-577ADP
Consumption Current: Approximately 420mA
- 4. Operating Environment:**
Temperature: 0°C to 40°C (32°F to 104°F)
Humidity: 30% to 80% RH (non-condensation)
- 5. Dimensions and Weight:**
Dimensions: Approximately 110(W) × 100(D) × 53.5(H) mm (4 $\frac{3}{8}$ "W × 4"D × 2 $\frac{1}{8}$ "H)
Weight: Approximately 163g (5.8oz)

Using Rechargeable Battery Pack

Your Handheld Terminal supports use of two battery pack types of different capacity. You can select the one that best suits your needs in terms of operating time, the type of options you need to use, etc.

When using the large-capacity battery pack, you need to use the special large-capacity battery pack cover that comes with the battery pack (DT-5124LBAT).

Important!

Store a battery pack in its special soft case whenever you are not using it.

Battery Pack Specifications

Model:	DT-5123BAT
Rated Capacitance:	900mAh
Rated Voltage:	3.7V
Dimensions:	Approximately 27.9(W) × 51.2(D) × 12.4(H) mm (1½"W × 2"D × ½"H)
Weight:	Approximately 32g (1.1oz)
Bundled Item:	Soft case

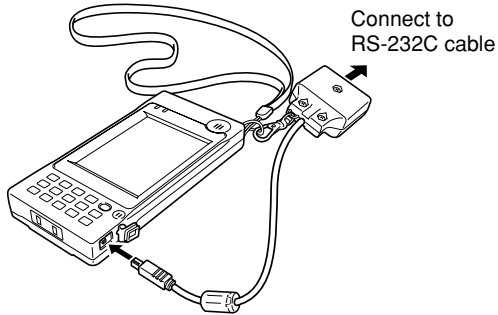
Large-capacity Battery Pack Specifications

Model:	DT-5124LBAT
Rated Capacitance:	1800mAh
Rated Voltage:	3.7V
Dimensions:	Approximately 27.9(W) × 51.2(D) × 23.0(H) mm (1½"W × 2"D × ⅞"H)
Weight:	Approximately 57g (3.1oz)
Bundled Item:	Soft case

Using the Level Converter Cable

The separately sold Level Converter Cable (DT-5180RSC) can be used to connect this Handheld Terminal to a serial port of your computer.

1. Open the serial port cover of the Handheld Terminal and connect the Level Converter Cable.



2. Attach the hook to the neck strap.
3. Connect the other end of the Level Converter Cable to an RS-232C cable connected to a serial port of your computer.

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6-2, Hon-machi 1-chome
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