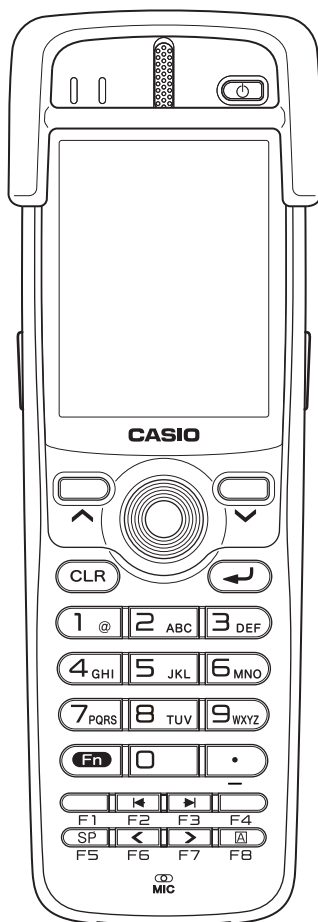


CASIO®**Handheld Terminal****DT-X100 Series****User's Guide**

Be sure to read "Safety Precautions" inside this guide before trying to use your Handheld Terminal.



 **Bluetooth**

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- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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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.

Your neglect or avoidance of the warning and caution statements in the subsequent pages causes the danger of fire, electric shock, malfunction and damage on the goods as well as personal injury.

Markings and Symbols

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



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



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



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.

Warning

Disassembly and Modification



- Never try to disassemble or modify the Handheld Terminal and its options including battery pack and battery in any way.


Abnormal Conditions




- Should the Handheld Terminal and/or its options including battery pack and battery become hot or start to emit smoke or a strange odor, immediately turn off the power and contact your dealer or distributor whom you purchased the product from, or an authorized CASIO service provider.

Warning

Dust and Moisture


-  • Though the Handheld Terminal is dust and water splash resistant, its options including the battery pack are not. Keep loose metal objects and containers filled with liquid away from your Handheld Terminal and the options. Also, never handle the Handheld Terminal and the options while your hands are wet.

Laser Light

-  • This product uses laser light for aiming a bar code. 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 well away from anyone wearing a pacemaker. Radio waves emitted by the Handheld Terminal can affect the operation of a pacemaker.
- Before the use in aircraft, be sure to consult with cabin crew for interference the Handheld Terminal emits.
- Before the use in medical facility, be sure to consult with the facility management or the manufacture of a specific medical equipment that the Handheld Terminal may interfere with.
- Do not use the Handheld Terminal nearby gas pump or chemical tank or any other places flammable or explosive.

Caution


Foreign Objects

-  • Take care to ensure that metals or combustible objects are not inserted into the openings of the Handheld Terminal or its options, and not to allow moisture to get inside of them.


Location

-  • Install the cradle properly on a flat and stable surface so that it cannot fall down onto floor.
-  • Do not leave the Handheld Terminal and its options for a long period in a car parked in direct sunlight.

LCD Screen

-  • Never apply strong pressure to the screen or subject it to strong impact. Doing so can crack the LCD Screen.

Low Temperature Burn

-  • Avoid prolonged contact with the skin while the Handheld Terminal is switched on. Some areas on the back of the Handheld Terminal may become hot during use and could cause low-temperature burns.

Optional Lithium-ion Battery Pack

Danger



- Never use the Handheld Terminal and its option including the battery pack and battery next to open flame, near a stove, or any other area exposed to high heat, or leave them for a long period of time in a vehicle parked in direct sunlight.
- Never use the battery pack with any device other than the Handheld Terminal.
- Never dispose of the battery pack by incinerating it or otherwise expose it to heat.
- Never transport or store the battery pack together with metal objects that may result in shorting positive (+) and negative (-) terminals of the battery pack. 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.
- Never pierce the battery pack with nails, hit it with a hammer, or step on it.



- Use only the specified battery charger to charge the battery pack.

Warning



- Never place the battery pack in a microwave oven or any other high-voltage device.



- If the amount of time period the battery pack can serve becomes considerably short even after it has been fully charged for the specified time period, stop using it.
- 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.
- Should fluid from the battery pack accidentally get into your eyes or on the skin, do not rub it. Immediately rinse it off with clean tap water and then consult a physician.



Caution








- Replace only with the same type of battery pack recommended by CASIO. Dispose of used battery packs according to the local regulation.
- Keep the battery pack out of the reach of small children.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Power Supply / AC Adaptor

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.
- Do not modify, sharply bend, twist, or pull on the power cord.
- Do not use a detergent to clean AC adaptor and its power cable, especially on the plug and the jack.
- Do not use an AC adaptor with a bent connector.
- Do not twist or wrench the connector.
-  When using the battery chargers and the cradles, be sure to use the respective AC adaptors.

Caution

-  Never pull on the power cord when unplugging it. Always hold the plug when unplugging it from the wall outlet.
- Never touch the plug while your hands are wet.
-  Be sure to unplug the power cord from the wall outlet before cleaning the battery chargers and the cradles.
- Unplug the power cord from the wall outlet whenever leaving the battery chargers and the cradles unattended for a long period.
- The housing of the AC adaptor can become warm during normal use.
-  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.
-  Check that the connector is properly oriented and then push it straight in (do not insert upside down).
- Do not allow fluids or foreign objects to get into the AC adaptor.
- Choose a location where the power cord is readily accessible and can be easily plugged in and unplugged.
-  When using the AC adaptor, always use a power outlet with the specified power supply and voltage, and ensure that the power plug is inserted into the socket fully and securely.

Backup 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 of all important data. One way to do this is to use the separately sold cradles to transfer data to a computer.

Use Casio genuine battery pack only



- We recommend the use of Casio genuine battery packs with Casio devices. Casio genuine battery packs are tested for quality and safety for the safe use of the product they are installed. We cannot be held liable for accidents or damages caused by counterfeit Casio battery packs or battery packs other than Casio genuine battery packs. When buying a battery pack, pay due attention to buy a Casio genuine battery pack.

Operating Precautions

Your Handheld Terminal and its options are precision. 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 battery pack in the Handheld Terminal for a long period.**
Dead battery pack 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
- **Do not use volatile chemical substances such as thinners, benzene or toiletries to clean the Handheld Terminal.**
When the Handheld Terminal is dirty, wipe it clean with a soft, dry cloth. Rubbing with excessive force could scratch the display.
- **The power-supply terminals and Data Communication terminals should be cleaned from time to time using an implement such as a dry cotton bud.**
Soiling on the terminals may cause connection defects.
- **Take care when using chemicals.**
Applying thinners, gasoline, kerosene, solvents or oils, or substances such as cleaners, adhesives, paints, medications or toiletries that contain those materials, to the plastic case or cover may cause discoloration or other damage.
- **The back of the Handheld Terminal may become hot during use. This is normal and does not indicate a fault.**

- **802.11a/n Restrictions:**

- This product is for indoor use only when using channels 36, 40, 44, 48, 52, 56, 60, or 64 (5150-5350 MHz).

- To ensure compliance with local regulations, be sure to select the country in which the access point is installed

- **Although the Handheld Terminal meets the IP54 level of the International Standard IEC60529, pay your attention to the following when using it in the rain.**

- After a large amount of rain or water falls on the Handheld Terminal, wipe off it immediately.

- Do not use it in the rain for a long period of time.

- Make sure the battery cover and connect cover are closed securely before using it.

- Do not press on the screen or keys with excessive force when using it in the rain.

- **Dead Pixels**

The LCD panel employed in this product uses high precision and substantial number of components which commonly cause a small number of the pixels not to light or to remain lit all the time. This is due to the characteristics of LCD panel yield in accuracy over 99.99% and permissible.

- **Lithium-ion Battery Pack**

Each lithium-ion battery pack has its life. The life span heavily depends on how the battery pack is charged or stored which may cause deterioration of the battery pack to shorten the life span if it is handled improperly. Note the tips below to make the battery pack last long.

- Be sure to charge the battery pack before using it if the battery pack is used for the first time or if it has not been used for a long period of time.

- If the battery pack is repeatedly charged, the life span becomes short. To avoid the repetition of charging the battery pack, be sure that the remaining capacity is low before you start charging.

- Be sure to charge the battery pack in recommended temperature range. The temperature range is dependant on device you use to charge including battery chargers and Handheld Terminals. Refer to the respective user guides. Charging the battery pack in a temperature outside of the recommended range causes deterioration.

- When used at low temperatures, the battery pack has a reduced capacity and will supply power for shorter time.

The life span of the battery pack is also shortened.

- Charging the battery pack while the battery pack itself is freeze including inside causes deterioration. Be sure to resume an ordinary room temperature on the battery pack and then leave it unattended for approximately one hour before charging.

- After charging the battery pack, if the performance of the battery pack does not show any recovery, it is a sign of ending the life. Replace it with a new battery pack.

- Avoid the battery pack with a full of the capacity to store for a long period of time. If you need to store it for a long period, be sure that the remaining capacity is 30 to 50 percent and to store in a moderate low temperature. This can reduce deterioration.

-
- The battery pack gradually deteriorates over time. In particular, storing (or using) the fully charged battery pack at high temperatures tends to accelerate battery pack deterioration.

Important

- 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.

Regulatory Information

Europe

DT-X100
Options of DT-X100
CE

<p>Manufacturer: CASIO COMPUTER CO., LTD. 6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan Responsible within the European Union: Casio Europe GmbH Casio-Platz 1, 22848 Norderstedt, Germany www.casio-europe.com</p>

- Please keep all information for future reference.
- The declaration of conformity may be consulted at <http://doc.casio.com>
- Products are for distribution within all member states of the EU.
- Options of DT-X100 are HA-F60IOA, HA-F62IOA, HA-F30CHG, HA-F32DCHG, HA-F20BAT, HA-F21LBAT, AD-S42120C-N5, AD-S15050B-N5, DT-380USB-A and AC-CORD-EU

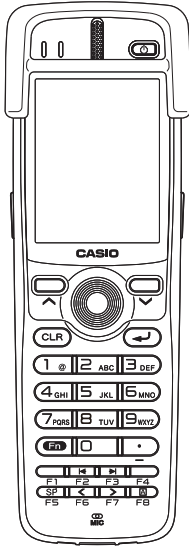
Maximum radio output power

- IEEE802.11a/b/g/n: 2.4GHz band \leq 20dBm; 5GHz band \leq 14dBm.
- Bluetooth: 2.4GHz \leq 4dBm.

Hereby, CASIO COMPUTER CO., LTD. declares that the radio equipment type DT-X100 is in compliance with Directive 2014/53/EU.

Handheld Terminal System Configuration

DT-X100 Series



Accessories

Please check the contents in the box before using the Handheld Terminal for the first time.
The Handheld Terminal comes with the standard battery pack cover and protector already fitted.

- Hand Strap
- Large-capacity Battery Pack Cover
- User's Guide

Options

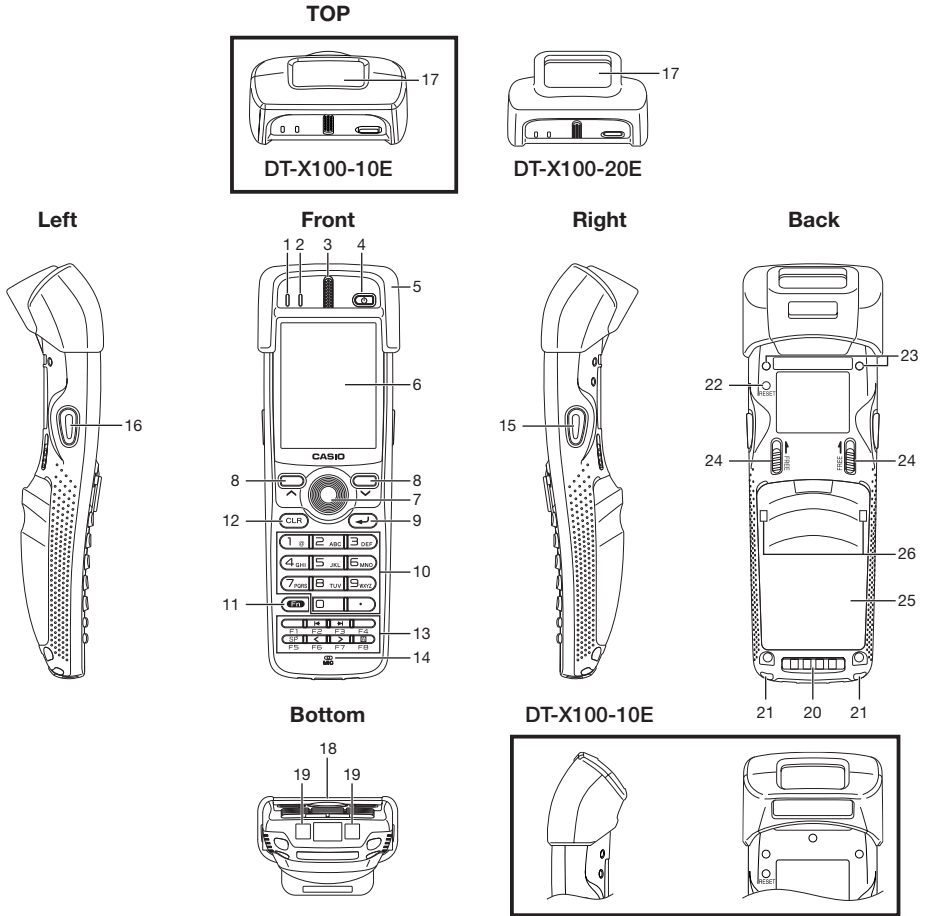
- USB Cradle HA-F60IO*/HA-F60IOA
- Ethernet Cradle HA-F62IO*/HA-F62IOA
- Cradle-type Battery Charger HA-F30CHG
- Cradle-type Dual Battery Charger HA-F36DCHG*
- Battery Pack HA-F20BAT
- Large-capacity Battery Pack HA-F21LBAT
- Dual Battery Charger HA-F32DCHG
- AC Adaptor for USB Cradle/Ethernet Cradle/
Dual Battery Charger AD-S42120C
- AC Adaptor for Cradle-type Battery Charger AD-S15050B
- AC Adaptor for Cradle-type Dual Battery Charger AD-S60160B*
- Power Cord AC-CORD
- Cable DT-380USB-A
- Hand Belt HA-F95HB

* Not sold in the EU or in EFTA member states.

For the latest options list, refer to the ON-LINE manual available at
<http://support.casio.com/en/manual/manual.php?cid=010>

General Guide

Handheld Terminal (DT-X100)



1	Indicator 1	Orange: Charging the battery pack. Green: Charging the battery pack is complete. Red: Battery pack error or the surrounding temperature is out of the charging temperature range.
2	Indicator 2	Flashes in blue when operating via Bluetooth or in orange when operating via WLAN. Lights in green when reading a bar code successfully. Flashes magenta when the DT-X100 is connected to a PC by the USB.
3	Speaker	Buzzer and voice messages are output here.
4	Power Key	Turns the power on and off.
5	Protector	Fitted on the Handheld Terminal.

6	Screen	Displays text and operating instructions.
7	Trigger Center Key	Used to perform bar code reading. Can be assigned an arbitrary function.
8	Cursor Keys	Perform the same functions as the up and down arrow keys on a PC keyboard.
9	Enter Key	Press when finishing entering numerical values or when moving to the next step.
10	Numeric Keys	Used to enter numeric values and decimal points.
11	Fn Key	Used to make various settings in combination with the function keys or numeric keys or when starting a pre-registered application.
12	CLR Key	Used to clear one letter to the left of the cursor.
13	Function Keys	<p>Various functions other than bar code reading can be assigned to these keys.</p> <p>The default key assignments are as follows.</p> <p>F1: Similar function as the Alt key on a PC keyboard.</p> <p>F2: Similar function as the Shift+Tab keys combination on a PC keyboard. Used to move the cursor among entry or selection items.</p> <p>F3: Similar function as the Tab key on a PC keyboard. Used to move the cursor among entry or selection items.</p> <p>F4: Not assigned.</p> <p>F5: Enter a space.</p> <p>F6: Similar function as the cursor left key on a PC keyboard.</p> <p>F7: Similar function as the cursor right key on a PC keyboard.</p> <p>F8: Select text entry mode.</p> <p>(The mode changes in order of Numeric → Uppercase letter → Lowercase letter)</p>
14	Microphone	Used to input a sound including voice.
15	Trigger R Key	Used to perform bar code reading.
16	Trigger L Key	Used to perform bar code reading.
17	Barcode Reader Port	Laser light or LED light is emitted from this window that reads bar codes.
18	IR Port	Used for communication with another Handheld Terminal.
19	Power Contacts	Used to receive power provided by the USB Cradle or Ethernet Cradle.
20	Data Communication Terminal	Used for data communications.

21	Strap Holes	Used to attach the hand strap. Also used for the hand belt.
22	Reset Switch	Used to reset the Handheld Terminal.
23	Hand Belt Holes	Used to attach the hand belt.
24	Battery Pack Cover Lock Switch	Used to lock the battery cover and to release.
25	Battery Pack Cover	Used to cover the battery compartment that holds the battery pack inside.
26	Mount Holes	These holes hold the terminal seating in the optional USB Cradle or in the Ethernet Cradle.

Loading and Removing the Battery Pack

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 (HA-F20BAT) and a large-capacity battery pack (HA-F21LBAT).

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 (HA-F20BAT or HA-F21LBAT) 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 Cradle-type Dual Battery Charger, the USB Cradle, or Ethernet Cradle to charge a battery pack. See the sections of this guide that cover the Dual Battery Charger, the Cradle-type Battery Charger, the Cradle-type Dual Battery Charger, the USB Cradle, and the Ethernet Cradle for information about how to use them for charging.

Important!

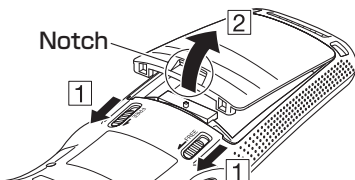
Always keep backup copies of all important data!

- **The battery pack 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 battery pack if 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.**
- **If a battery pack is used past the end of its service life, it may swell up in size. In such a case, replace the battery pack with a new one.**
- **If the backup battery is fully charged, it will maintain the contents of the terminal's memory (RAM) for approximately 10 minutes when the main battery pack is removed.**
- **It takes 4 days with the main battery pack installed in the terminal for the backup battery to be charged fully.**

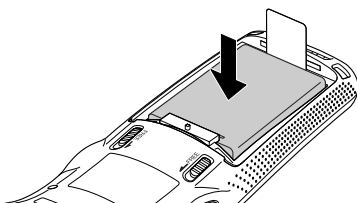
Loading

1. Turn over the Handheld Terminal.
2. Remove the rechargeable battery pack cover as follows:
 1. Slide the left and right lock switches for the rechargeable battery pack cover simultaneously in the direction indicated by the arrows.

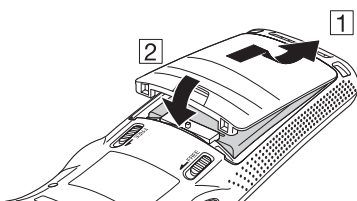
-
- 2 While holding the switches back, hook your fingertip into the notch in the rechargeable battery pack cover and lift the cover up in the direction indicated by the arrow.



3. Load a battery pack (HA-F20BAT) or large-capacity battery pack (HA-F21LBAT). 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.



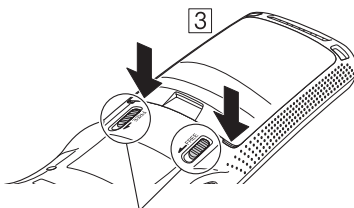
4. Put back the battery pack cover in the compartment as instructed by the arrows, 1 and 2 in the illustration.



After putting back the cover, firmly press the cover so that it is locked in the position by the two Battery Pack Cover Lock Switches 3.

- Ensure that both the switches returned all the way down to the home positions as indicated by the two arrows.
If the switches are lackadaisically positioned, it causes the switches not to activate.

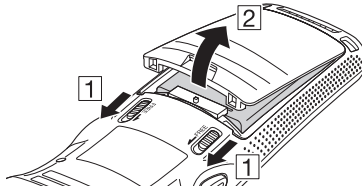
When loading a large-capacity battery pack, use the large-capacity battery cover instead of the standard battery cover.



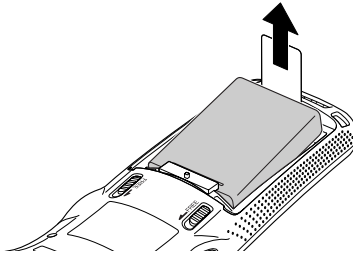
Battery Pack Cover Lock Switches

Removing

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. Remove the rechargeable battery pack cover as follows:
 - 1 Slide the left and right lock switches for the rechargeable battery pack cover simultaneously in the direction indicated by the arrows.
 - 2 While holding the switches back, hook your fingertip into the notch in the rechargeable battery pack cover and lift the cover up in the direction indicated by the arrow.



4. Remove the battery pack by pulling up the removal tape as shown in the illustration.



Important!

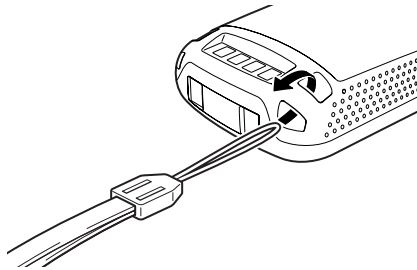
- When removing the battery pack, make sure you do not leave the Handheld Terminal without a battery pack for more than about 10 minutes. Doing so can cause data in the memory to be deleted.
- When removing the battery pack, be sure you carefully follow the proper procedure as explained in this guide.
- Never try to use other type of battery than the ones that are specified for this product.
- When removing the battery pack, pull the removal tape straight up and remove the battery pack. Removing with excessive force can damage the battery pack.
- Before starting to use the DT-X100, ensure that the battery pack cover is properly closed. If not, the power cannot be turned on or is turned off abruptly while the DT-X100 is in use.

Attaching the Hand Strap

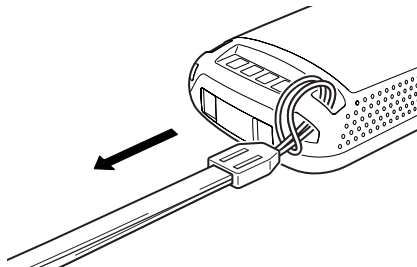
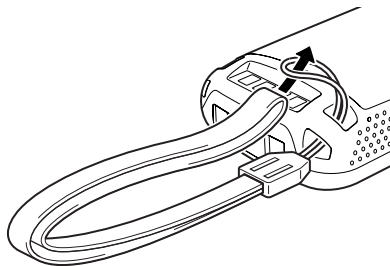
The hand strap can be used to prevent the Handheld Terminal from dropping when carrying it around. Since there are two strap holes where the hand strap can be attached, use the hole that affords the ease of use. Attach the hand strap according to the procedure described below.

To attach the hand strap

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



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



Important!

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

Setting up

Using the Mouse Emulator Function

The mouse emulator function lets you make settings and adjustments by using a mouse cursor.

To use the mouse cursor, first set up the mouse emulation mode by following the below procedure.

In the emulation mode, the numeric keys and Trigger R key are used to manipulate the mouse cursor. (In the emulation mode, the numeric keys and Trigger R key cannot be used for entering numerics and scanning bar codes respectively.)

■ Activating the mouse emulator function

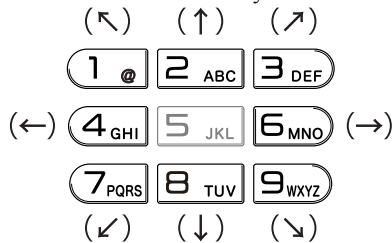
- While no mouse cursor is shown on the screen, press the “Fn” key followed by the “4” key. The mouse cursor appears, and the mouse emulator function is now active.
- * To turn off the function, press the same key sequence again, i.e. “Fn” key → “4” key.
- * Each push of this key toggles the function between on and off.

■ Using the mouse cursor

Activate the mouse emulator function as described above.

Mouse cursor movement

- Press a numeric key for the direction in which you want to move the mouse cursor.



Mouse cursor moves in the arrow direction.

- * Holding down a key moves the mouse cursor continuously.

Left click

This serves for selecting a file, making a menu selection, or a similar action.

- Move the mouse cursor to the position where you want to click, and press the “5” key.

Right click (calling up a menu)

- Move the mouse cursor to the position where you want to click, and press the Trigger R key.

Left double click

Performing this action while the mouse cursor is on an icon starts an application, opens a file, etc.

- Move the mouse cursor to the position where you want to double click, and press the “5” key twice.
- * The double click timing follows the double tap setting of Windows CE. The setting can be changed by accessing the “Mouse” icon in the Control Panel.

Dragging

This action allows you to move an application icon on the screen or a file or folder in File Explorer.

- Move the mouse cursor to the position where you want to start dragging, and press the “5” key. Then move the mouse cursor by holding down the “5” key and pressing another numeric key for the direction in which you want to move. The selected item will be dragged along with the cursor. When you release the “5” key, the item is dropped at the current location.

Adjusting Display Brightness

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

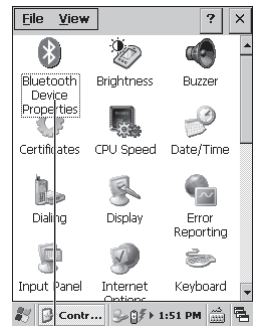
- Press the “Fn” key and then press the “5” key or “6” key after confirming that “F” is displayed in the lower right corner of the screen. Pressing the “5” key adjusts brightness for a darker display, while pressing the “6” key adjusts brightness for a lighter display.
- * In order to continue to make adjustments, press the “5” key or “6” key after pressing the “Fn” key.

Display Auto Dimmer

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

You can use the following procedure to specify a period of time that should be allowed to elapse until when the auto dimming is initiated.

1. Use the “◀”/“▶” keys to move the focus to the [Start] icon and press the Enter key. Then navigate to **Settings** → **Control Panel** with the Enter key to bring up the Control Panel.



Focus

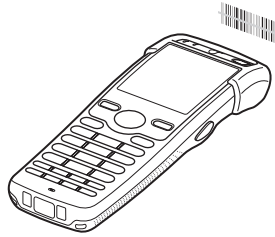
2. Move the focus to the “Brightness” icon and press the Enter key. Then use the “◀”/“▶” keys to move the focus to the tabs and use the “<”/“>” keys to select the [Backlight] tab. Adjust the displayed items.

- * The mouse emulator function can also be used to make the adjustment.



Using the Laser Scanner (DT-X100-10E)

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

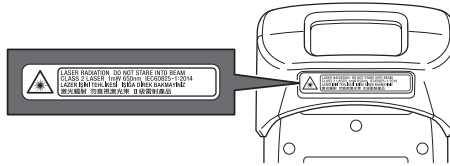


2. The laser emits light and scans the bar code. If scanning is completed normally, Indicator 2 displays a green light and a buzzer sounds.

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 40-550 mm. Furthermore, the distance at which scanning is possible may vary according to the bar code symbology.**

Warning Label

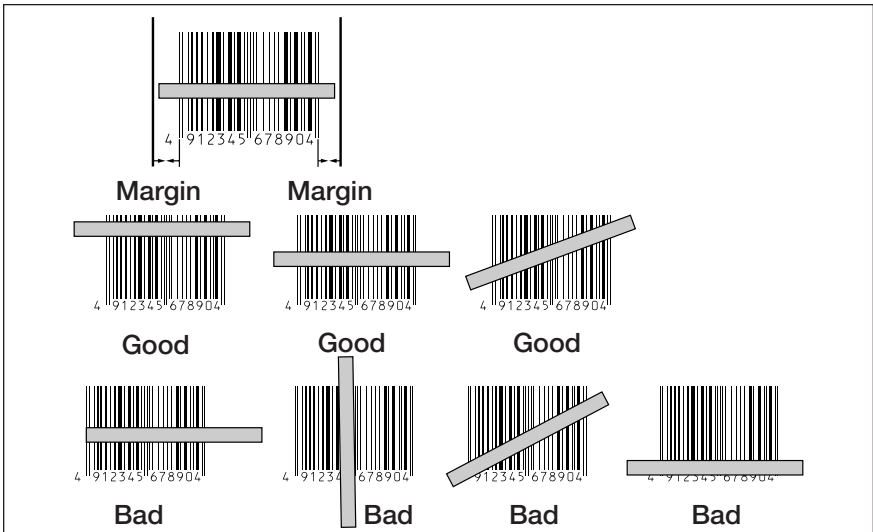


- This label is a warning and caution label for Class 2 laser products that comply with IEC60825-1:2014.
- Although Class 2 laser light is only emitted momentarily, never look directly into the beam light.
- The laser light emitted by this laser scanner has a maximum output of less than 1 mW and a wavelength of 650 nm.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.



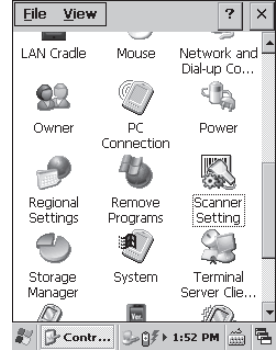
- The products with the integrated Laser Scanner module scan bar codes using laser light. Never look directly into the laser light or shine the laser light into the eyes.

Adjusting the Laser Light Emission Width

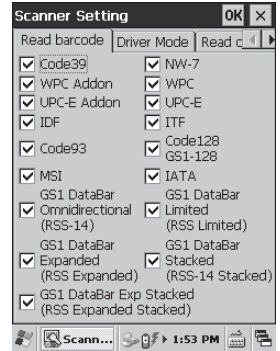
The emission width of the laser light emitted by the Handheld Terminal can be adjusted. Adjust the emission width when it has been changed.

* The mouse emulator function can also be used to make the adjustment.

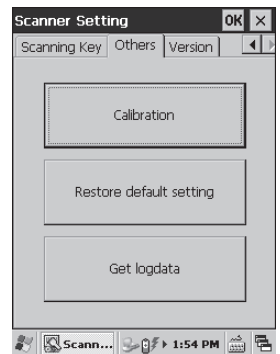
1. Use the “◀”/“▶” keys to move the focus to the [Start] icon and press the Enter key. Then navigate to **Settings** → **Control Panel** with the Enter key to bring up the Control Panel.



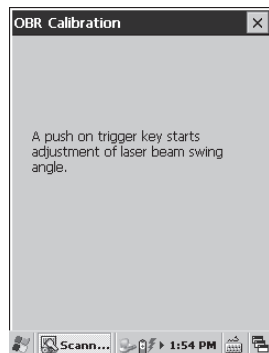
2. Move the focus to the [Scanner Setting] icon and press the Enter key. The display appears as shown at right.



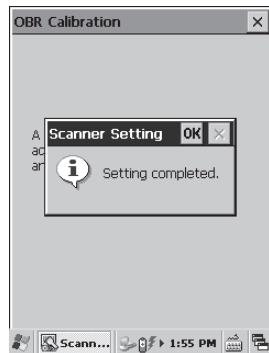
3. Use the “◀”/“▶” keys to move the focus to the tabs and use the “<”/“>” keys to select the [Others] tab.



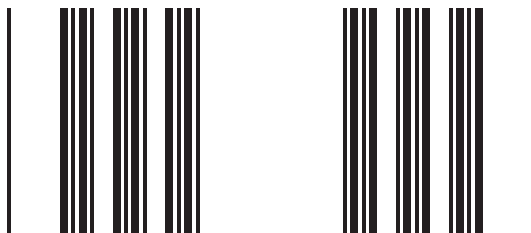
-
4. Use the “◀”/“▶” keys to move the focus to [Calibration] and press the Enter key. The message appears as shown at right.



5. Press the Trigger Key to emit laser light, and align the light with the barcode for adjusting emission width.
- Align the laser light with the narrow bars on both sides.
 - The message appears as shown at right when adjustment is completed.
 - Repeat the setting if “Setting failed” message appears.

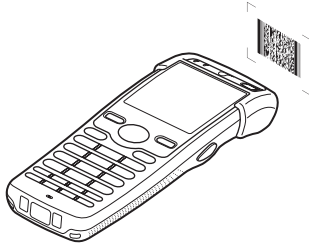


Emission Width Adjustment Bar Code



Using the C-MOS Imager (DT-X100-20E)

1. Turn on the Handheld Terminal, position its C-MOS Imager reader port near the bar code or 2D code, and then press the Trigger Key.



2. The Handheld Terminal reads the code by emitting laser and red lights. Indicator 2 (read operation indicator lamp) lights in green when the reading is successful.

Bar code and stacked 2D code Reading Guide

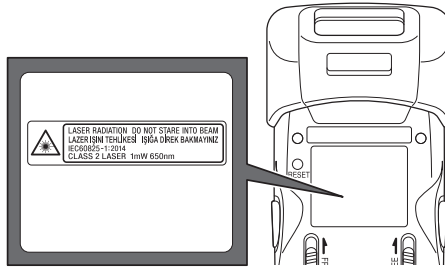
When you press the Trigger key, LEDs in the Handheld Terminal emit laser and red lights. Align the laser frame with the center of the bar code or 2D code you are trying to read. Take particular care aligning the light when there are other bar codes nearby.

When reading a bar code in large size, adjust the position of the Handheld Terminal so that the entire code is enclosed within the laser frame. For small size, move the Handheld Terminal closer to it.

Important!

- If you have problem not properly reading a code, change the angle and/or the distance between the code and the Handheld Terminal and try reading it again.
- A bar code can be read from a distance of 45mm to 400mm, and a stacked 2D code can be read from a distance of 40mm to 230mm and matrix 2D code can be read from a distance of 48mm to 300mm. The actual reading distance depends on the symbology and the resolution.
- Note that a special reader application is required to read bar codes and 2D codes.
- Fingerprints, dust, dirt, or stain on the C-MOS Imager reader port can cause abnormal reading. Should the reader port become dirty, wipe it clean with a soft and dry cloth.

Warning Label



- This label is a warning and caution label for Class 2 laser products that comply with IEC60825-1:2014.
- Although Class 2 laser light is only emitted momentarily, never look directly into the beam light.
- The laser light emitted by this laser scanner has a maximum output of less than 1 mW and a wavelength of 650 nm.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Warning!

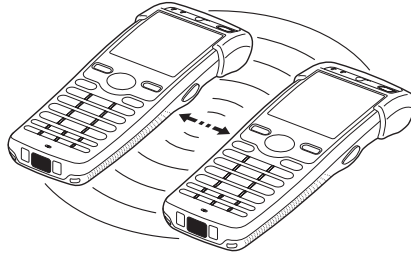
■ Never look directly into the laser light.



- The products with the integrated C-MOS Imager module scan bar codes using laser light. Never look directly into the laser light or shine the laser light into the eyes.

Bluetooth® Communication

Bluetooth® interface can also be used to transmit 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 Bluetooth communication is successful.

- **Make sure there is at least two meters (6'7") between the Handheld Terminal and other equipment (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 the Handheld Terminals in wireless operation and a microwave oven.) When approaching such a device when its power is turned on, proper 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 communication may not be possible in an area near a broadcast transmitter or wireless transmitter. If this happens, move the Handheld Terminal to a different location. Normal 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 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.
 - Although the Handheld Terminal enables wireless LAN and Bluetooth® communication to be used simultaneously as a result of being equipped with Bluetooth® Ver.2.1, communication may not be possible depending on the surrounding radio wave environment.

Resetting the Handheld Terminal

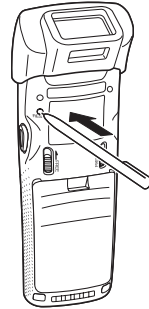
Resetting the Handheld Terminal is the same as restarting a PC. Performing a reset causes all unsaved inputs and edits to be lost, but data that is already stored in the memory as well as all settings should be unaffected.

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

Use a stylus to press the reset switch on the back of the DT-X100.

This starts the reset operation.

- * Do not use a toothpick or pencil or other object whose tip may break off when pressing the reset switch. Otherwise there is a risk of damage.



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 settings.

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

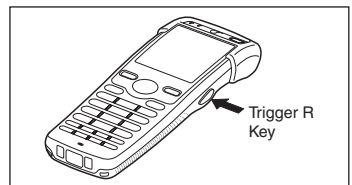
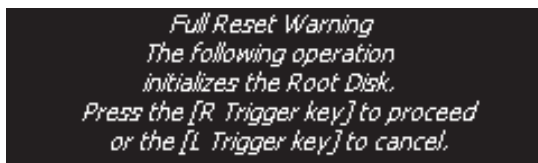
- When you want to delete all memory contents and return the settings to their initial factory settings.
- When you are no longer able to use the Handheld Terminal because you forgot your password.
- When the Handheld Terminal does not operate normally due to a memory problem.
- When the message “A problem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

To perform a full reset

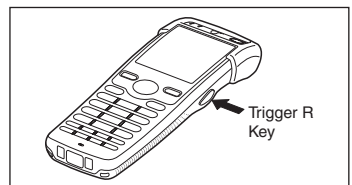
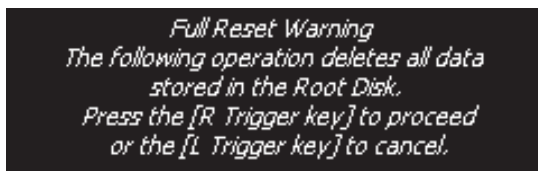
Important!

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

1. While holding down the Power key and CLR key simultaneously, press the reset switch using stylus for approximately one second and then release the reset switch first. The message shown below appears.
 - To cancel the full reset operation, press the Trigger L key.



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



3. Press the Trigger R key again.
 - Full reset is performed, all data in the memory (RAM) are erased and the start-up screen is displayed.

DT-X100 Specifications

Model:	DT-X100-10E, DT-X100-20E
CPU:	Marvell® PXA320 806MHz
Memory:	256MB RAM, 512MB Flash ROM (user area: approx. 220MB)
OS:	Microsoft® Windows® Embedded Compact7
Display:	2.4-inch, 320 × 240-dot transfective TFT color LCD
Laser Scanner (DT-X100-10E):	
Readable symbologies:	UPC-A/UPC-E/EAN8 (JAN8)/EAN13 (JAN13)/Codabar (NW-7)/Code39/Interleaved2of5 (ITF)/MSI/Industrial2of5/Code93/Code128 (EAN128)/IATA/GS1 DataBarOmnidirectional (RSS-14)/GS1 DataBarLimited (RSS Limited)/GS1 DataBar Expanded (RSS Expanded)/GS1 DataBar Stacked (RSS-14 Stacked)/GS1 DataBar Expanded Stacked (RSS Expanded Stacked)/GS1 DataBar Truncated/GS1 DataBar Stacked Omnidirectional (RSS-14 Stacked Omnidirectional)
Scanning distance:	Within approximately 40-550 mm (1 ⁹ / ₁₆ "-15 ³ / ₄ ")
C-MOS Imager (DT-X100-20E):	
Readable symbologies:	1D: UPC-A/UPC-E/EAN8 (JAN8)/EAN13 (JAN13)/Codabar (NW-7)/Code39/Interleaved2of5 (ITF)/MSI/Code93/Code128 (GS1-128 (EAN128))/Code11/GS1 DataBarOmnidirectional (RSS-14)/GS1 DataBarLimited (RSS Limited)/GS1 DataBar Expanded (RSS Expanded)/Code32/GS1 DataBar Truncated (RSS-14 Truncated)/ISBT Stacked 2D: PDF417/Micro PDF/Composite/Codablock F/GS1 DataBar Stacked Omnidirectional (RSS-14 Stacked Omnidirectional)/GS1 DataBar Expanded Stacked (RSS Expanted Stacked)/GS1 DataBar Stacked (RSS-14 Stacked)/GS1DataBar Truncated (RSS-14 Truncated) Matrix 2D: Aztec, DataMatrix, Maxicode, QR Code, Micro QR
Scanning distance:	1D: 45 – 400 mm Stacked 2D: 40 – 230 mm Matrix 2D: 48 – 300 mm
Bluetooth®:	
Protocol:	Bluetooth® Specification Ver.2.1+EDR
Range:	Approximately 3 m (depends on radio wave conditions and environment)
Output:	4dBm max. (PowerClass2)
WLAN:	
Standards:	IEEE 802.11a/b/g/n
Modulation Type:	802.11a/g/n:OFDM (OrthogonalFrequencyDivisionMultiplexing) 802.11b:DSSS (Direct Sequence Spread Spectrum) BPSK, QPSK, CCK, 16QAM, 64QAM

Frequency: <Center frequency>
 IEEE802.11a/n
 W52:36/40/44/48ch (5.18 to 5.24GHz)
 W53:52/56/60/64ch (5.26 to 5.32GHz)
 W56:100/104/108/112/116/120/124/128/132/136/140ch (5.50 to 5.70GHz)
 IEEE802.11b
 1 to 13ch (2.412 to 2.472GHz)
 IEEE802.11g/n
 1 to 13ch (2.412 to 2.472GHz)
 <Frequency range>
 IEEE802.11a/n
 5.15 to 5.35GHz (W52,W53)
 5.47 to 5.725GHz (W56)
 IEEE802.11b
 2.400 to 2.497GHz
 IEEE802.11g/n
 2.400 to 2.4835GHz

Baud Rate: 802.11a/g : 54Mbps (maximum)
 802.11b : 11Mbps (maximum)
 802.11n : 65Mbps (maximum)

Communication Range: 802.11b/g/n : Approx.50m (indoor), Approx.150m (outdoor)
 802.11a/n : Approx.50m (indoor), Approx.150m (outdoor)

Power Requirements:

Power Source: HA-F20BAT Battery Pack
 HA-F21LBAT Large-capacity Battery Pack

Memory Backup: Rechargeable Lithium Battery (Built-in)

Consumption Current: DC 1.6A (DT-X100-10E)
 DC 1.7A (DT-X100-20E)

Battery Life:

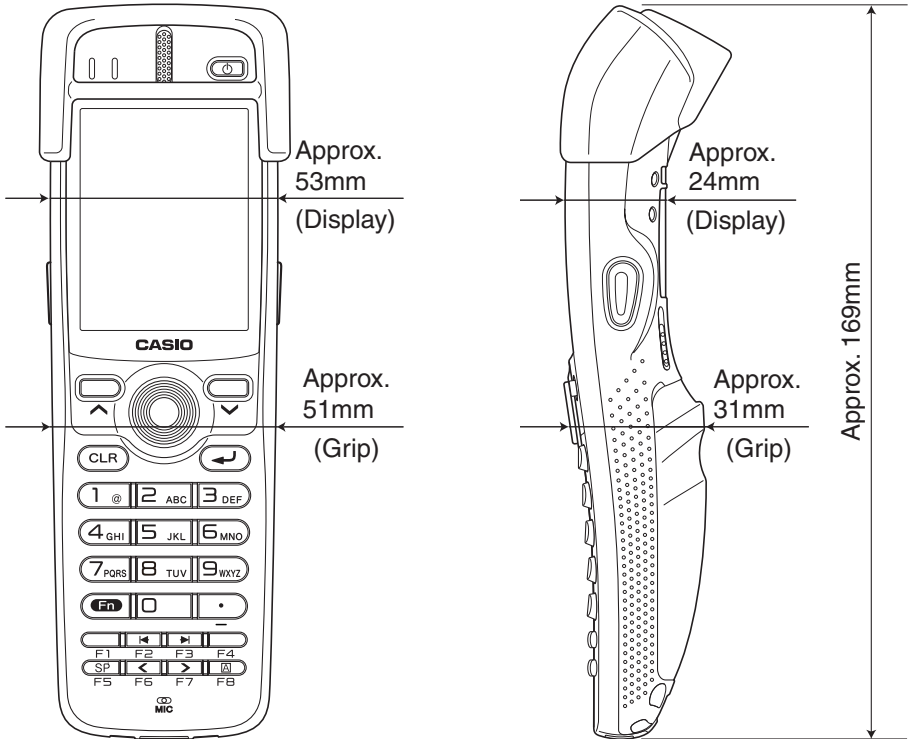
Battery pack:
 DT-X100-10E
 Approximately 15 hours (HA-F20BAT)*
 Approximately 26 hours (HA-F21LBAT)*
 Approximately 10 hours (HA-F20BAT)**
 Approximately 17 hours (HA-F21LBAT)**

DT-X100-20E
 Approximately 13.5 hours (HA-F20BAT)*
 Approximately 23 hours (HA-F21LBAT)*
 Approximately 9 hours (HA-F20BAT)**
 Approximately 15 hours (HA-F21LBAT)**

* under the conditions that CPU speed is set to the auto power save mode, backlight is set to off, and the ratio of cyclic operation of “Standby, Key input, and Scanning” is set at 20:1:1.
 ** under the conditions that CPU speed is set to the auto power save mode, backlight is set to off, and the ratio of cyclic operation of “Standby, Key input, Scanning, and WLAN” is set at 20:1:1:1.

Operating Temperature:	–20°C to 50°C
Operating Humidity:	10% to 80% RH (non-condensation)
Dust and Water Splash Proof:	IEC60529 standard, IP54 level
Dimensions:	Refer to “Dimensional Drawings” on the next page.
Weight:	Approximotely 175g (when standard battery pack and bumper are installed) Approximotely 195g (when Large-capacity battery pack and bumper are installed)
Vibrator Function:	Available according to software setting.

Dimensional Drawings



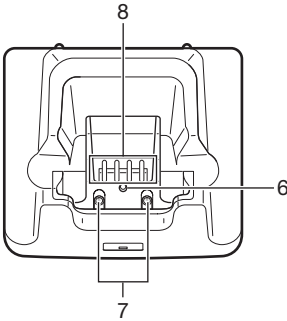
Using the USB Cradle (HA-F60IO/HA-F60IOA)

The optionally available USB Cradle (HA-F60IO/HA-F60IOA) makes it possible to transmit data and files between the Handheld Terminal and a PC via a USB connection (download or upload). You can also use the USB Cradle to charge the battery pack installed in the Handheld Terminal.

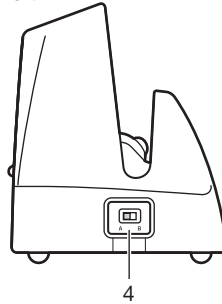
General Guide

Details common to both HA-F60IO and HA-F60IOA are shown in the HA-F60IO illustrations.

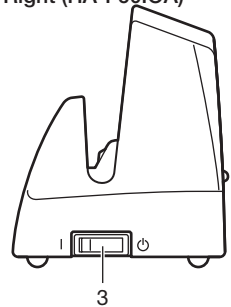
Top



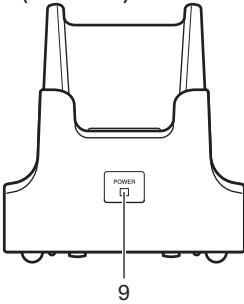
Left



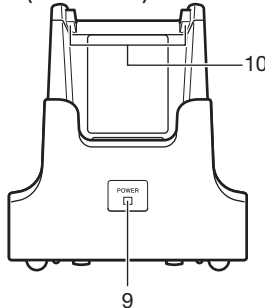
Right (HA-F60IOA)



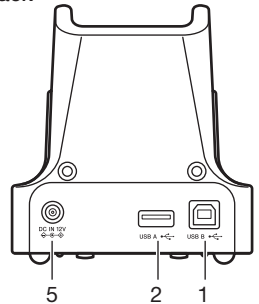
Front (HA-F60IO)



Front (HA-F60IOA)



Back

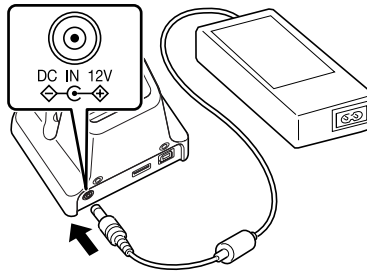


1	USB Client Port	This port is used to transmit data and files (download, upload) by connecting the Cradle to a PC using a USB cable (DT-380USB-A). A dedicated driver must be installed in the PC before connecting the Cradle to the PC.
2	USB Host Port	This port is used to connect a corresponding USB peripheral device.
3	Power Switch	Turns the power on and off.
4	Selector Switch	This switch is used to switch between the USB host port and USB client port.
5	AC Adaptor Jack	Connect the AC adaptor here.
6	Terminal Detect Switch	This switch detects when the DT-X100 is seated correctly on the Cradle.
7	Power Contacts	Power is supplied to the DT-X100 via these contacts.
8	Data Communication Terminal	Used for USB communications.
9	Power LED	This LED indicates the power status and the mounting status of the DT-X100. Off: DT-X100 is not installed. Or, the AC adaptor is not connected. Green: Power on, DT-X100 mounted correctly.
10	Mount Hooks	Use these hooks to lock the DT-X100 into the cradle.

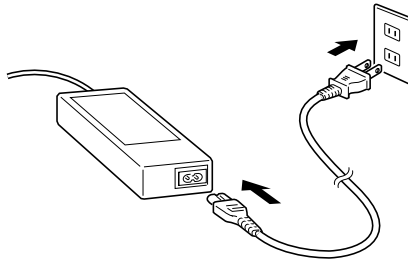
Connecting the USB Cradle Power Supply

Use the separately sold AC adaptor (AD-S42120C) for the power supply of the USB Cradle. Always make sure to connect the AC adaptor to the USB Cradle before performing communication with the Handheld Terminal. Power to the Handheld Terminal is supplied from the USB Cradle.

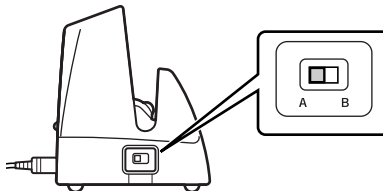
1. Plug the AC adaptor into the AC adaptor jack on the back of the USB Cradle.



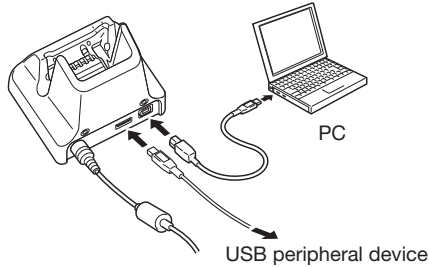
2. After connecting the power cable to the AC adaptor, plug the other end of it into an electrical outlet.



3. Use the selector switch on the left side of the USB Cradle to select the port to be used. Set the switch to the “B” position when using the unit as a USB client, or set it to the “A” position when using the unit as a USB host.

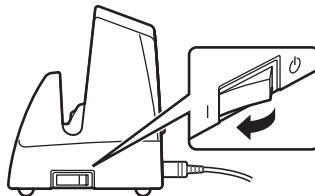


-
4. Connect the USB cable (DT-380USB-A) to the USB client port on the back of the USB Cradle, and then connect it to the PC. The USB host port is used when connecting the cradle with other USB peripheral device.



5. (HA-F60IOA only)

Set the Power Switch on the right side of the USB Cradle to on. The Power LED on the front of the USB Cradle lights red.



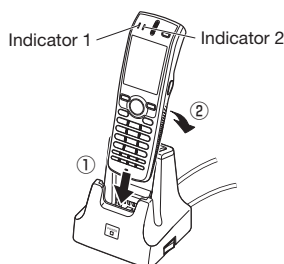
6. Align the contacts on the bottom of the DT-X100 with the power contacts of the USB Cradle when inserting the unit.

The power LED on the front of the USB Cradle will light green if the Handheld Terminal has been properly mounted.

7. (HA-F60IOA only)

Align the contacts on the bottom of the DT-X100 with the power contacts on the USB Cradle before inserting the Handheld Terminal (①), and then insert the DT-X100 by aligning the mount hooks in the USB Cradle with the mounting slots in the DT-X100 (②). Once the DT-X100 is correctly inserted, charging begins and the Power LED on the front of the USB Cradle lights green.

To remove the DT-X100 from the USB Cradle, tilt the DT-X100 forward to disengage the mount hooks from the mounting slots and then pull it out.



Status of Indicator 1 on DT-X100:

Orange: Charging the battery pack.

Red: Standby due to battery pack error or the surrounding temperature is out of the charging temperature range.

(charging begins when the temperature is within the charging temperature range)

Green: Charging the battery pack is complete.

Important!

- Always make sure to first remove the Handheld Terminal from the USB Cradle when switching the selector switch.
- Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.
- Never short out the power contacts of the USB Cradle. This can damage the USB Cradle.
- Note that subjecting the Cradle to impacts or strong vibration could dislodge the Handheld Terminal. Also avoid any vibration or impacts during communication with a USB client or USB host as this can cause communication to be interrupted.
- When placing the DT-X100, make sure that it is seated properly and that the power LED at the front of the USB Cradle is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not seated properly.
- Always cap ports that are not being used. Using the USB Cradle while the ports are uncapped can cause damage.
- Where there are no mounting slots in the battery pack cover on the back of the DT-X100, the HAF60IOA cannot be used.
- (HA-F60IOA only)
Do not attempt to pick up the DT-X100 while it is still in the USB Cradle. Doing so could result in the USB Cradle falling unexpectedly and causing injury or damage.
- If the USB Cradle will not be used for an extended period, set the Power Switch to off.
- Place the Cradle on a flat, level surface and take care when placing the DT-X100 in or removing it from the cradle.

Specifications

1. USB

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

2. Charging

Charging Method: Constant current/voltage
Charge Period: Approximately 3 hours (battery pack)
Approximately 5.5 hours (large-capacity battery pack)

3. Power Supply

Power Source: AC adaptor (AD-S42120C)
Consumption Current: 12V DC approximately 1.3A
Output to Handheld Terminal: 5V DC 1.6A (max.)
USB Host Output: 5V DC 0.5A (max.)

4. AC Adaptor

Model: AD-S42120C
Input: 100V to 240V AC 50/60Hz 1.2A
Output: 12V DC 3.5A

5. Dimensions and Weight

Dimensions:
HA-F60IO: Approximately 93(W) × 83(D) × 101(H) mm
HA-F60IOA: Approximately 93(W) × 83(D) × 104(H) mm
Weight:
HA-F60IO: Approximately 270g
HA-F60IOA: Approximately 250g

6. Operating Environment

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

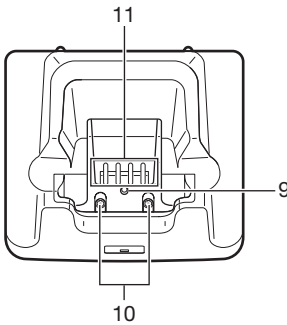
Using the Ethernet Cradle (HA-F62IO/HA-F62IOA)

The optionally available Ethernet Cradle (HA-F62IO/HA-F62IOA) makes it possible to transmit data and files between the Handheld Terminal and a PC via a USB or LAN connection (download or upload). You can also use the Ethernet Cradle to charge the battery pack installed in the Handheld Terminal.

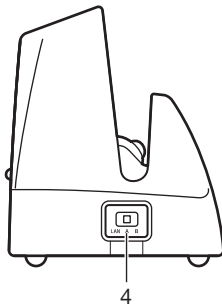
General Guide

Details common to both HA-F60IO and HA-F60IOA are shown in the HA-F60IO illustrations.

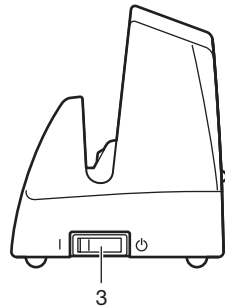
Top



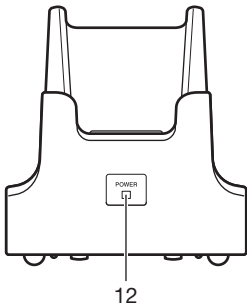
Left



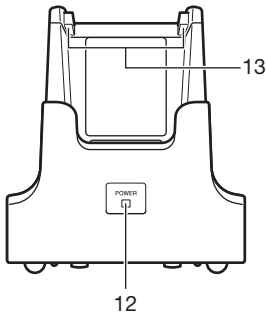
Right (HA-F62IOA)



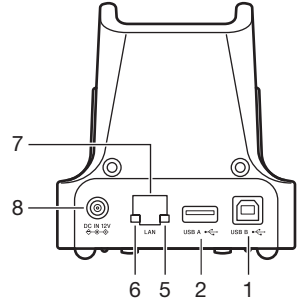
Front (HA-F62IO)



Front (HA-F62IOA)



Back

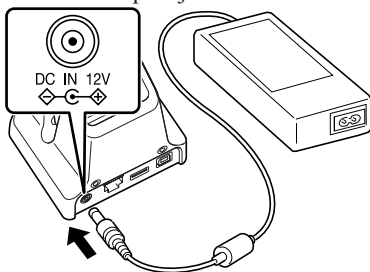


1	USB Client Port	This port is used to transmit data and files (download, upload) by connecting the Ethernet Cradle to a PC using a USB cable (DT-380USB-A). The dedicated driver must be installed in the PC before connecting the Ethernet Cradle to the PC.
2	USB Host Port	This port is used to connect a corresponding USB peripheral device.
3	Power Switch	Turns the power on and off.
4	Selector Switch	This switch is used to switch between a USB connection and a LAN connection.
5	LAN Connection Status LED	This LED shows the status of the LAN connection. Off: LAN cable not connected correctly. Lit green: LAN cable connected correctly.
6	LAN Communication Status LED	This LED shows the LAN operation status. Off: No communication. Blinking green: Communication in progress.
7	LAN Port	This port is used for connecting the cradle to a PC or hub via a LAN cable so that data and files can be transmitted (uploaded or downloaded). The special driver software must be installed in the DT-X100.
8	AC Adaptor Jack	Connect the AC adaptor here.
9	Terminal Detect Switch	This switch detects when the DT-X100 is seated correctly on the Ethernet Cradle.
10	Power Contacts	Power is supplied to the DT-X100 via these contacts.
11	Communication Terminal	Used for communications.
12	Power LED	This LED indicates the power status and the mounting status of the DT-X100. Off: DT-X100 is not installed. Or, the AC adaptor is not connected. Green: Power on, DT-X100 mounted correctly.
13	Mount Hooks	Use these hooks to lock the DT-X100 into the cradle.

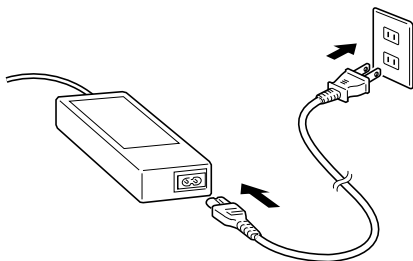
Connecting the Ethernet Cradle Power Supply

Use the separately sold AC adaptor (AD-S42120C) for the power supply of the Ethernet Cradle. Always make sure to connect the AC adaptor to the Ethernet Cradle before performing communication with the Handheld Terminal. Power to the Handheld Terminal is supplied from the Ethernet Cradle.

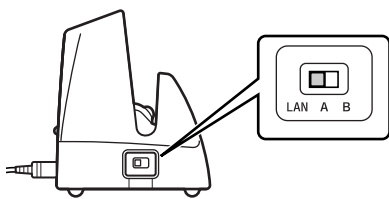
1. Plug the AC adaptor into the AC adaptor jack on the back of the Ethernet Cradle.



2. After connecting the power cable to the AC adaptor, plug the other end of it into an electrical outlet.



3. Use the selector switch on the left side of the Ethernet Cradle to select the port to be used. Set the switch to the “LAN” position when using the LAN port on the cradle. Set the switch to the “B” position when using the unit as a USB client, or set it to the “A” position when using the unit as a USB host.

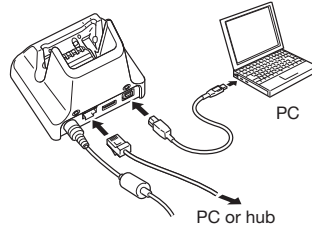


4. Before using the cradle ports, remove the caps from the ports.

When using a LAN, connect one end of the LAN cable to the LAN port and the other end to the PC or hub.

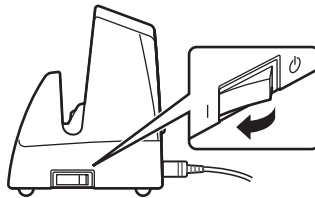
When using a USB connection, connect one end of the USB cable (DT-380USB-A) to the USB port and the other end to the PC.

The USB host port is used for connecting the cradle with other USB peripheral device.



5. (HA-F60IOA only)

Set the Power Switch on the right side of the USB Cradle to on. The Power LED on the front of the USB Cradle lights red.



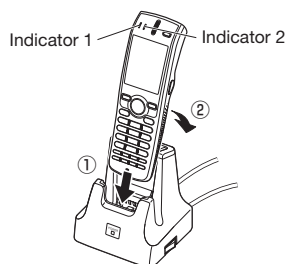
6. Align the contacts on the bottom of the DT-X100 with the power contacts of the Ethernet Cradle when inserting the unit.

The power LED on the front of the Ethernet Cradle will light green if the Handheld Terminal has been properly mounted.

7. (HA-F60IOA only)

Align the contacts on the bottom of the DT-X100 with the power contacts on the USB Cradle before inserting the Handheld Terminal (①), and then insert the DT-X100 by aligning the mount hooks in the USB Cradle with the mounting slots in the DT-X100 (②). Once the DT-X100 is correctly inserted, charging begins and the Power LED on the front of the USB Cradle lights green.

To remove the DT-X100 from the USB Cradle, tilt the DT-X100 forward to disengage the mount hooks from the mounting slots and then pull it out.



Status of Indicator 1 on DT-X100:

Orange: Charging the battery pack.

Red: Standby due to battery pack error or the surrounding temperature is out of the charging temperature range.

(charging begins when the temperature is within the charging temperature range)

Green: Charging the battery pack is complete.

Important!

- **Always make sure to first remove the Handheld Terminal from the Ethernet Cradle when switching the selector switch.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **Never short out the power contacts of the Ethernet Cradle. This can damage the Ethernet Cradle.**
- **Note that subjecting the Cradle to impacts or strong vibration could dislodge the Handheld Terminal. Also avoid any vibration or impacts during communication with a LAN, USB client or USB host, as this can cause communication to be interrupted.**
- **When placing the DT-X100, make sure that it is seated properly and that the power LED at the front of the Ethernet Cradle is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not mounted properly.**
- **Always cap ports that are not being used. Using the Ethernet Cradle while the ports are uncapped can cause damage.**
- **Where there are no mounting slots in the battery pack cover on the back of the DT-X100, the HAF60IOA cannot be used.**
- **(HA-F60IOA only)**
Do not attempt to pick up the DT-X100 while it is still in the USB Cradle. Doing so could result in the USB Cradle falling unexpectedly and causing injury or damage.
- **If the USB Cradle will not be used for an extended period, set the Power Switch to off.**
- **Place the Cradle on a flat, level surface and take care when placing the DT-X100 in or removing it from the cradle.**

Specifications

1. LAN Specifications

Communications protocol: IEEE 802.3
Media type: 10base-T/100base-TX auto-switched

2. USB

Protocol: USB Ver1.1 Standard
Transmission rate: 12Mbps (max.)

3. Charging

Charging Method: Constant current/voltage
Charge Period: Approximately 3 hours (battery pack)
Approximately 5.5 hours (large-capacity battery pack)

4. Power Supply

Power Source: AC adaptor (AD-S42120C)
Consumption Current: 12V DC approximately 1.5A
Output to Handheld Terminal: 5V DC 1.6A (max.)
USB Host Output: 5V DC 0.5A (max.)

5. AC Adaptor

Model: AD-S42120C
Input: 100V to 240V AC 50/60Hz 1.2A
Output: 12V DC 3.5A

6. Dimensions and Weight

Dimensions:
HA-F60IO: Approximately 93(W) × 83(D) × 101(H) mm
HA-F60IOA: Approximately 93(W) × 83(D) × 104(H) mm
Weight:
HA-F60IO: Approximately 280g
HA-F60IOA: Approximately 260g

7. Operating Environment

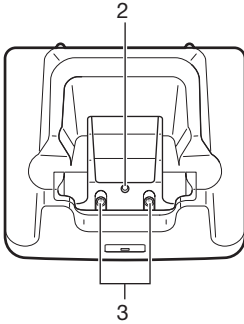
Temperature: 0°C to 40°C (32°F to 104°F)
Humidity: 30% to 80% RH (non-condensation)

Using the Cradle-type Battery Charger (HA-F30CHG)

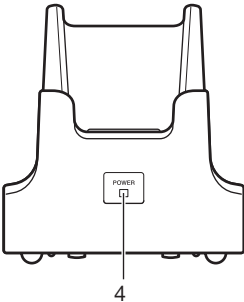
The optionally available Cradle-type Battery Charger (HA-F30CHG) lets you charge the Handheld Terminal's battery simply by placing the Handheld Terminal onto the charger.

General Guide

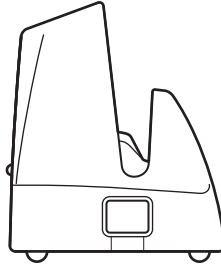
Top



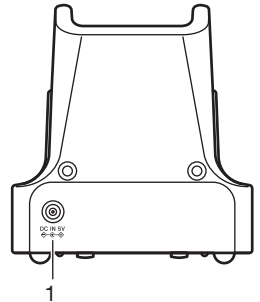
Front



Left



Back

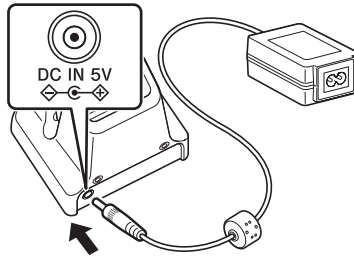


1	AC Adaptor Jack	Connect the AC adaptor here.
2	Terminal Detect Switch	This switch detects when the DT-X100 is mounted correctly on the charger.
3	Power Contacts	Power is supplied to the DT-X100 via these contacts.
4	Power LED	This LED indicates the power status and the mounting status of the Handheld Terminal. Off: DT-X100 is not installed Green: Power on, DT-X100 mounted correctly

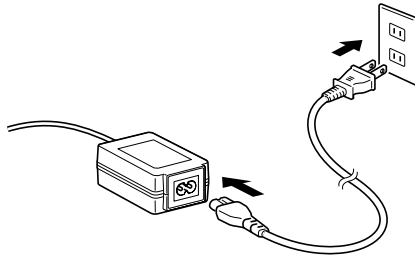
Connecting the AC Adaptor for Cradle-type Battery Charger

Use the separately sold AC adaptor (AD-S15050B) for the power supply of the Cradle-type Battery Charger.

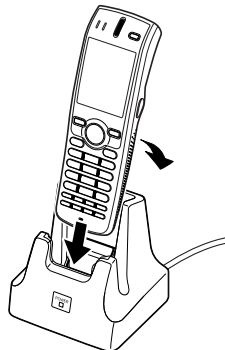
1. Plug the AC adaptor into the AC adaptor jack on the back of the charger.



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



3. Align the contacts on the bottom of the DT-X100 with the power contacts of the Cradle-type Battery Charger when inserting the unit.
The power LED on the front of the charger will light green if the Handheld Terminal has been properly mounted.



Status of Indicator 1 on DT-X100:

Orange: Charging the battery pack.

Red: Standby due to battery pack error or the surrounding temperature is out of the charging temperature range.

(charging begins when the temperature is within the charging temperature range)

Green: Charging the battery pack is complete.

Important!

- **Never short out the power contacts of the Cradle-type Battery Charger. This can damage the Cradle-type Battery Charger.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **When placing the DT-X100, make sure that it is seated properly and that the power LED at the front of the Cradle-type Battery Charger is lit in green. Charging and communication will not proceed properly if the Handheld Terminal is not seated properly.**
- **Place the Cradle-type battery charger on a flat, level surface and take care when placing the DT-X100 in or removing it from the cradle.**

Specifications

1. Charging Specifications

Charging Method:	Constant current/voltage
Charge Period:	Approximately 3 hours (battery pack) Approximately 5.5 hours (large-capacity battery pack)

2. Power Supply

Power Source:	AC adaptor (AD-S15050B)
Consumption Current:	5V DC 1.6A
Output to Handheld Terminal:	5V DC 1.6A (max.)

3. AC Adaptor

Model:	AD-S15050B
Input:	100V to 240V AC 50/60Hz 0.4A
Output:	5V DC 3.0A

4. Dimensions and Weight

Dimensions:	Approximately 93(W) × 83(D) × 101(H) mm (3 ¹¹ / ₁₆ "W × 3 ¹ / ₄ "D × 4"H)
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Weight:	Approximately 230g (8.1oz)
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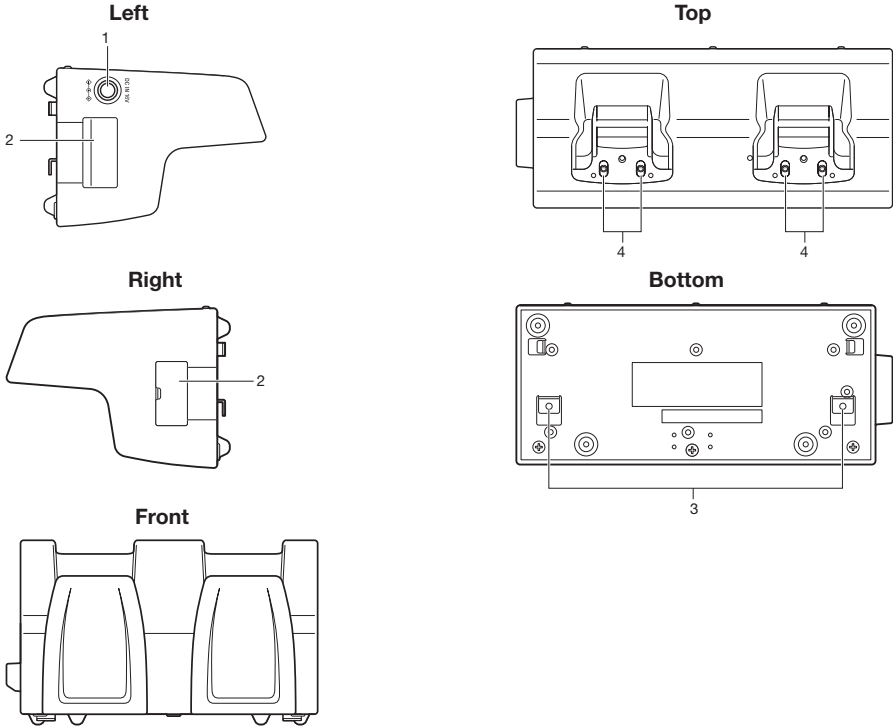
5. Operating Environment

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

Using the Cradle-type Dual Battery Charger (HA-F36DCHG)

The optionally available Cradle-type Dual Battery Charger (HA-F36DCHG) can be used to simultaneously charge two battery packs.

General Guide

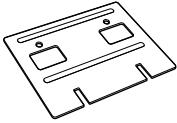


1	AC Adaptor Jack	This is used to supply power by connecting the AC adaptor (sold separately).
2	Cradle-type Dual Battery Charger Connection Port	Use this port to connect multiple Cradle-type Dual Battery Chargers to each other.
3	Connection Bracket Attachment Holes	The connection bracket attaches here when you connect multiple Cradle-type Dual Battery Chargers to each other.
4	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.

Bundled Items

Used when linking two or more Cradle-type Dual Battery Chargers.

- **Connection bracket (for rear)**



- **Connection bracket (for side)**



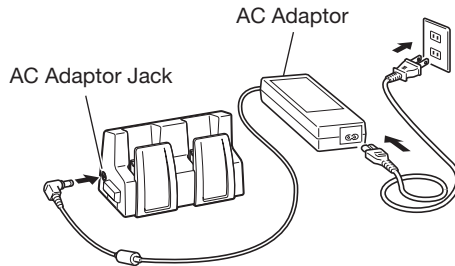
- **Connection screws (for rear and side), 2 each**



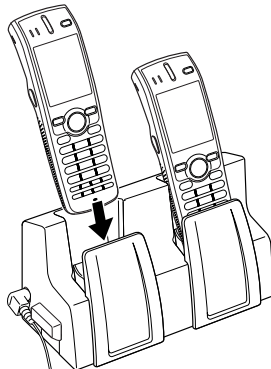
Charging Battery Pack

Use the separately sold AC adaptor (AD-S60160B) for the power supply of the Cradle-type Dual Battery Charger.

1. Plug the cord from the AC adaptor into the AC adaptor jack of the Cradle-type Dual Battery Charger.
2. Plug the AC cord into a wall outlet.



3. Align the contacts on the bottom of the DT-X100 with the power contacts of the Cradle-type Dual Battery Charger when inserting the unit.
 - Check the charging status with Indicator 1 on the DT-X100.



Status of Indicator 1 on DT-X100

Orange: Charging the battery pack.

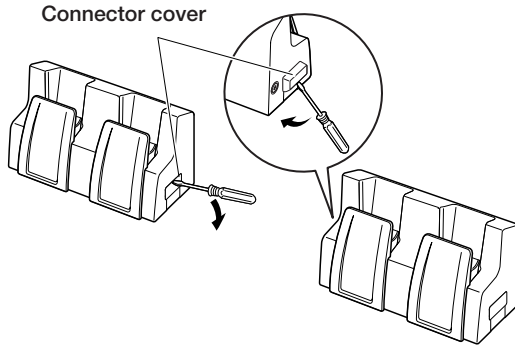
Red: Battery pack problem, or standby due to the surrounding temperature being beyond the specified temperature range (charging resumes when the temperature reaches the range).

Green: Charging the battery pack is complete.

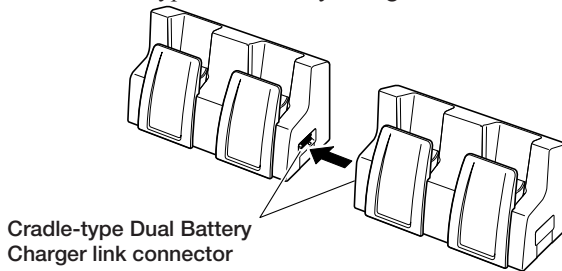
Connecting Multiple Cradle-type Dual Battery Chargers

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

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



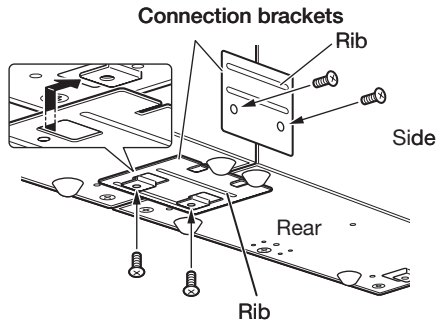
2. Connect the two Cradle-type Dual Battery Chargers as shown below.



3. Attach the rear and side connection brackets with the connection screws.

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

* Attach the connection brackets so that the front side faces outwards. (The front side has protruding ribs.)



Specifications

1. Charging Specification

Charging Method:	Constant current/voltage
Charge Period:	Approx. 3 hours (1 standard battery pack) Approx. 5.5 hours (1 large-capacity battery pack)

2. Power Supply

Power Source:	AC adaptor (AD-S60160B)
Consumption Current:	1.25A, 16V DC (1 unit) 3.7A, 16V DC (3 units)
Output to Handheld Terminal:	5V DC 1.6A (max.)

3. AC Adaptor

Model:	AD-S60160B
Input:	100V to 240V AC 50/60 Hz 1.5A
Output:	16V DC 3.0A

4. Dimensions and Weight

Dimensions:	Approximately 189(W) × 80(D) × 110(H) mm (7 ⁷ / ₁₆ "W × 3 ¹ / ₈ "D × 4 ⁵ / ₁₆ "H)
Weight:	Approximately 500g (17.6oz)

5. Operating Environment

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

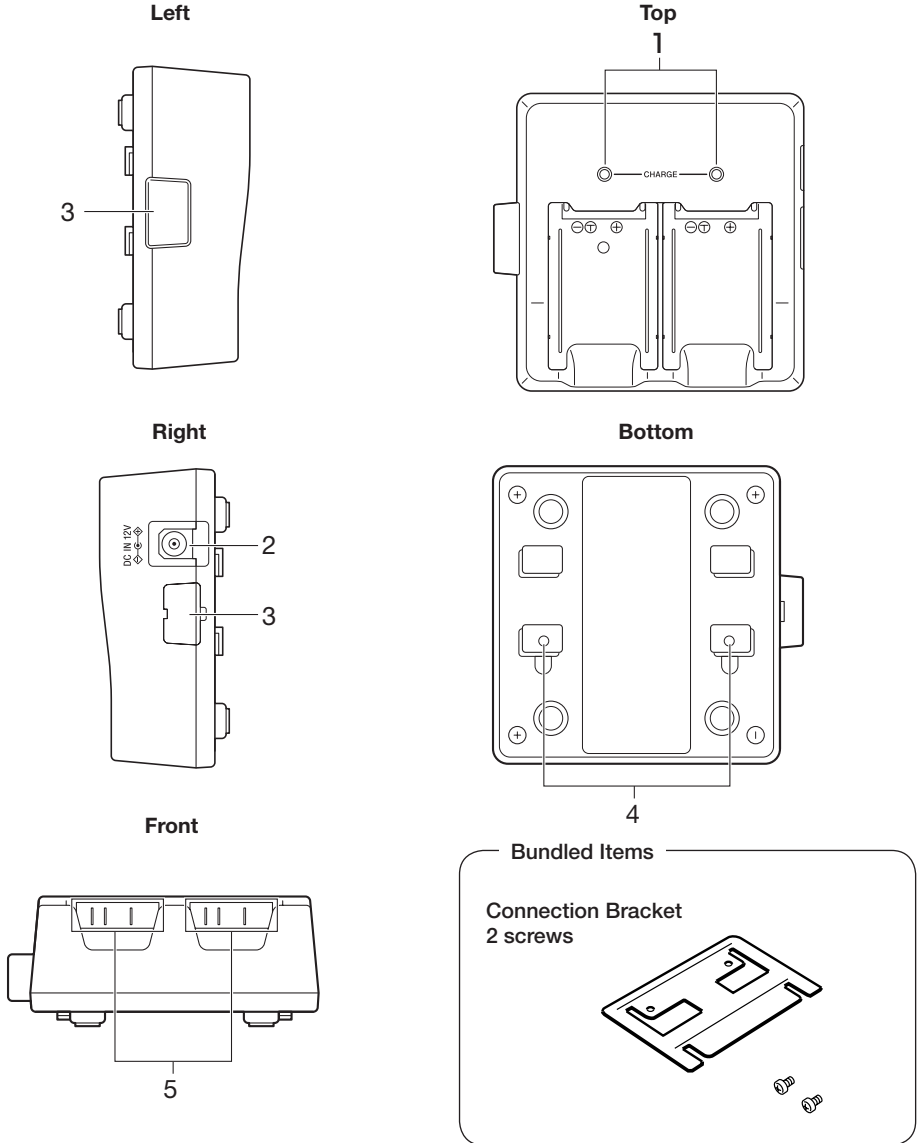
Important!

- **Never short out the power contacts of the Cradle-type Dual Battery Charger. This can damage the Cradle-type Dual Battery Charger.**
- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **Place the Handheld Terminal in the Cradle-type Dual Battery Charger. Check the Indicator 1 on the terminal to ensure that it has been securely positioned in the charger. The indicator will light up in orange for correct positioning.**
- **Each unit of the charger comes with one piece each of the side and bottom brackets. After you join two chargers together using these two brackets, one side bracket and one bottom bracket will be left over. Keep these as spare for use in future.**
- **Before linking multiple Cradle-type Dual Battery Chargers, be sure to disconnect the AC adaptor.**
- **Turn off the power on DT-X100 before placing it in the charger.**
- **Place the Cradle-type Dual battery charger on a flat, level surface and take care when placing the DT-X100 in or removing it from the cradle.**

Using the Dual Battery Charger (HA-F32DCHG)

The optionally available Dual Battery Charger (HA-F32DCHG) can be used to simultaneously charge two battery packs.

General Guide



1	Charge Indicator LED	This LED indicates the charge status of the battery pack(s). Off: Not charging the battery pack. Red: Charging the battery pack. Red Flashing: Battery pack problem Green Flashing: Standby Green: Charging the battery pack is complete.
2	AC Adaptor Jack	This is used to supply power by connecting the AC adaptor (sold separately).
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.
5	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.

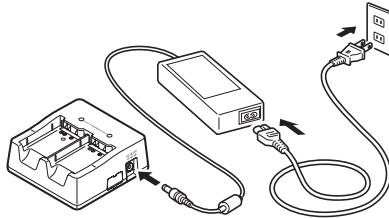
Important!

- **Allowing the power contacts become wet can cause an electric shock or fire. In addition, if the contacts become soiled, contact may be impaired resulting in poor charging. For reasons of safety and maintaining charging battery pack(s) in optimum condition, clean the power contacts by wiping with a dry cloth or cotton swab after disconnecting the AC adaptor.**
- **Although the battery may become warm during charging, this is normal and does not indicate a malfunction.**
- **Do not remove the battery pack or disconnect the AC adaptor during charging.**
- **Repeated “Mounting and Removing” of battery pack in excess of times may cause the quality deterioration of the battery pack.**
- **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 Battery Pack

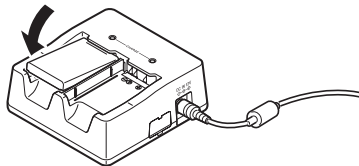
Use the separately sold AC adaptor (AD-S42120C) for the power supply of the Dual Battery Charger.

1. Plug the cord from the AC adaptor into the AC adaptor jack of the Dual Battery Charger.
2. Plug the AC cord 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 LED to light in red, indicating that charging has started.



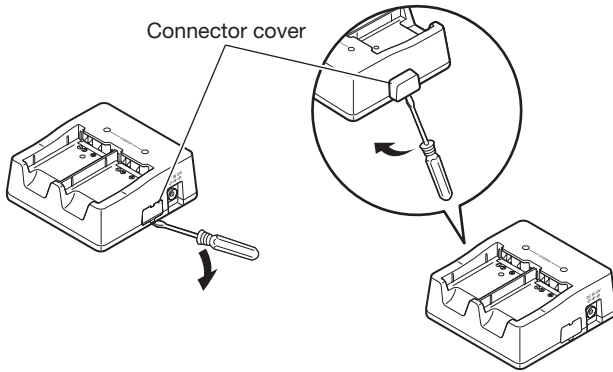
Status of Charge Indicator LED

- Off: Not charging the battery pack.
- Red: Charging the battery pack.
- Red Flashing: Battery pack problem
- Green: Charging the battery pack is complete.
- Green Flashing: Standby due to the surrounding temperature being beyond the specified temperature range (approximately 0°- 40°C). (charging resumes when the temperature reaches the range)

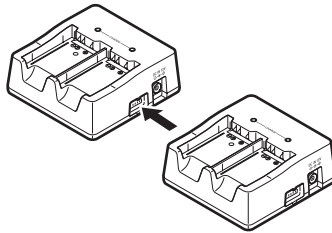
Connecting Multiple Dual Battery Chargers

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 dedicated 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.

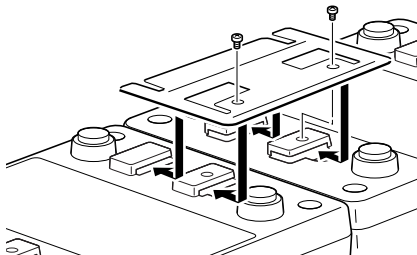


2. Connect the two Dual Battery Chargers as shown below.



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.



Specifications

1. Charging Specification

Charging Method:	Constant current/voltage
Charge Period:	Approx. 3 hours (1 standard battery pack, normal temperature) Approx. 5.5 hours (1 large-capacity battery pack, normal temperature) When charging two battery packs: Approx. 5.5 hours (2 standard battery packs, normal temperature) Approx. 10 hours (2 large-capacity battery packs, normal temperature)

2. Power Supply

Power Source:	AC adaptor (AD-S42120C)
Consumption Current:	12V DC 3.5A
Output:	4.2V DC 1.1A (max.)

3. AC Adaptor

Model:	AD-S42120C
Input:	100V to 240V AC 50/60Hz 1.2A
Output:	12V DC 3.5A

4. Dimensions and Weight

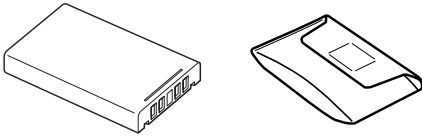
Dimensions:	Approximately 108(W) × 104(D) × 45(H) mm (4 ¹ / ₄ "W × 4 ¹ / ₈ "D × 1 ³ / ₄ "H)
Weight:	Approximately 152g (5.4oz)

5. Operating Environment

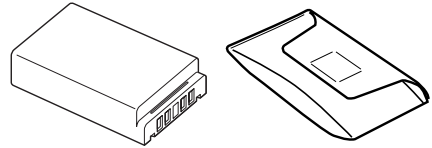
Temperature:	Approximately 0°C to 40°C (32°F to 104°F)
Humidity:	30% to 80% RH (non-condensation)

Using Rechargeable Battery Pack

HA-F20BAT



HA-F21LBAT



Your Handheld Terminal supports use of two battery pack types, one at a time, 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 (HA-F21LBAT).

Important!

- **Store a battery pack in its special soft case whenever you are not using it.**
- **If the battery pack has been left over unused for a long period of time, the capacity remained decreases due to spontaneous discharge or chemical decomposition by the battery pack itself. If the battery pack fails to hold its operating duration after it has been fully charged, replace it with a new one. The battery pack may reach the end of its service life.**
- **Follow the packing instruction promulgated in the IATA DGR 50th regulations to transport lithium-ion battery packs.**

Battery Pack Specifications

Model:	HA-F20BAT
Rated Capacity:	4.07WH (1100mAh)
Rated Voltage:	3.7V
Dimensions:	Approximately 36(W) × 55(D) × 9(H) mm ($1\frac{7}{16}$ "W × $2\frac{3}{16}$ "D × $\frac{3}{8}$ "H)
Weight:	Approximately 28g (1oz)
Bundled Item:	Soft case

Large-capacity Battery Pack Specifications

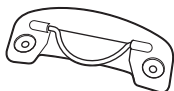
Model:	HA-F21LBAT
Rated Capacity:	6.956WH (1880mAh)
Rated Voltage:	3.7V
Dimensions:	Approximately 36(W) × 55(D) × 14(H) mm ($1\frac{7}{16}$ "W × $2\frac{3}{16}$ "D × $\frac{9}{16}$ "H)
Weight:	Approximately 46g (1.6oz)
Bundled Item:	Soft case

Attaching the Hand Belt (HA-F95HB)

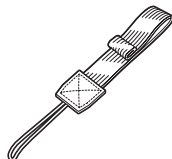
To use the Hand Belt (HA-F95HB), attach it to the DT-X100 as follows.

Items Included

• Holdfast



• Hand Belt



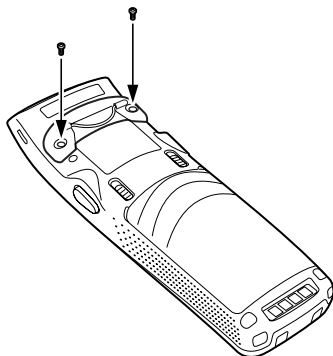
• Screw (2pcs)



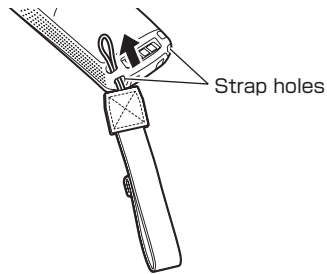
Attaching the Hand Belt

Attach the Hand Belt as described below.

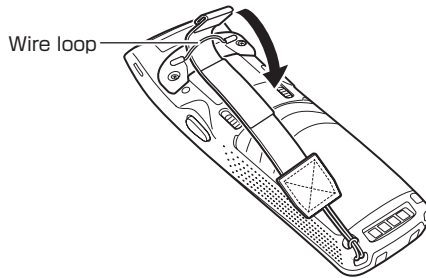
1. Turn the DT-X100 over.
2. Attach the holdfast on the back of the DT-X100 and secure it using the screws supplied.



-
3. Thread the looped cord on the end of the Hand Belt through one of the strap holes at the bottom of the DT-X100. (You can use either hole.)



4. Feed the belt through the wire loop on the mount, fold it back and secure it with the hook-loop fastener.



Important!

- When inserting the DT-X100 with the Hand Belt attached into the USB Cradle, etc., check the Power LED on the cradle and the indicator on the DT-X100 to ensure that the DT-X100 is inserted securely.
The DT-X100 must be inserted correctly to charge and communicate successfully.

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