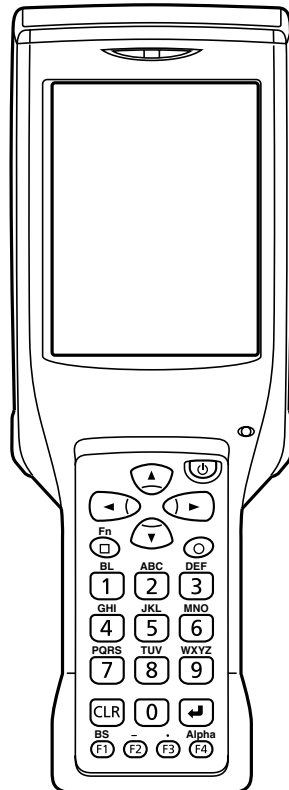


CASIO®

Handheld Terminal DT-X10 Series

User's Guide

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



SAR Caution

FCC Radio-Frequency Exposure Statement

This equipment generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 20 cm.

- This product has XTNDConnect Blue SDK for Windows CE built in. XTNDConnect Blue SDK for Windows CE is owned by Extended Systems, Inc. of the United States and used by CASIO COMPUTER CO., LTD. under license.

Bluetooth

- The Bluetooth trademarks are owned by Bluetooth SIG, Inc. of the United States and used by CASIO COMPUTER CO., LTD. under license.
- Compact Flash is a trademark of SanDisk Corporation.
- Datalight is a registered trademark of Datalight, Inc.
- FlashFX™ is a trademark of Datalight, Inc.

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U.S. Patent Office 5,860,082

- Other company names and product names used in this manual may be trademarks or registered trademarks of their respective owners.

Operating Precautions

Your Handheld Terminal 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 batteries go low, charge them as soon as possible.
- **Do not leave dead batteries in the Handheld Terminal for long periods.**
Dead batteries can leak, leading to malfunction of and damage to the Handheld Terminal.
- **Use the Handheld Terminal only within the specified temperature range.**
Use outside of the specified temperature range creates the risk of malfunction.
- **Avoid using the Handheld Terminal 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 button.**
- **Do not use any instrument other than the special stylus to operate the touch screen. Other instruments 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.

Introduction

- The contents of this manual 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 manual.
- This manual does not include any information about programming and download procedures. See the applicable separate documentation for information about these procedures.

Warranty and After Service

- This product comes with a warranty certificate. Carefully read the warranty certificate and keep it in a safe place in case you need it in the future. Note that the warranty is invalid and you will not be able to receive repairs covered by the warranty if the product name, warranty period (purchase date), retailer name, and other information are not filled in correctly on the warranty certificate. If your warranty certificate is not filled out correctly, immediately contact your retailer to have it filled out.
- Should this product ever malfunction, contact your original retailer and provide information about the product name, the date you purchased it, and details about the problem.
- In order to ensure worry-free operation, it is strongly recommended that you enter into a maintenance contract when you purchase this product.

This product is a Class B information processing device that conforms to the standards set forth by the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). Though this product is intended for use in a domestic environment, it can cause interference with radio and TV reception if located too close to a radio or television receiver. See the User's Guide that comes with the product for details on how to use it correctly.



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

Please keep all information for future reference.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undersired operation.

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THIS UNIT IN THE U.S.A. (not applicable to other areas).

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Proper connectors must be used for connection to host computer and/or peripherals in order to meet FCC emission limits.

Peripherals and Connectors

- Battery Pack (DT-5023BAT)
- Large-capacity Battery Pack (DT-5025LBAT)
- AC Adaptor (AD-S42120)
- Communication Card Cover (DT-892TCV)
- Communication Card Cover (Large size) (DT-893TCV)
- CF Card Extension Unit (DT-894CFU)
- Connectors (DT-882RSC, DT-883RSC, DT887AXA, DT888RSC, DT-380USB, SB-201)

Declaration of Conformity

Model Number: DT-X10M20URC, DT-X10M30U, DT-X10M20U, DT-X10M30URC, DT-160IOE, DT-167CHGE, DT-169CHGE, DT-5022CHGE
Trade Name: CASIO
Responsible party: CASIO, INC.
Address: 570 Mt. Pleasant Avenue, Dover, New Jersey 07801
Telephone number: 973-361-5400

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

We, the undersigned.

Company	CASIO Europ GmbH
Address, City	Bornbarch 10, D-22848 Norderstedt, Germany
Country	Germany
Phone number	+49(0)40-528-65-0
Fax number	+49(0)40-528-65-24

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

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	DT-X10M30E, DT-X10M20E, DT-X10M30U, DT-X10M20U

is tested to and conforms with the essential requirements for protection of health and the safety of the user and any other person 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 is tested to and conforms with the essential radio test suites so that it effectively uses 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 complies 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 Europ GmbH
Address, City	Bornbarch 10, D-22848 Norderstedt, Germany
Country	Germany
Phone number	+49(0)40-528-65-0
Fax number	+49(0)40-528-65-424



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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, check to make sure that everything is included.

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

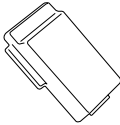
Handheld Terminal



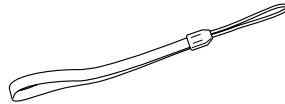
Stylus



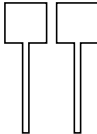
Large-capacity Battery Pack Cover



Hand Strap



PC Card Remover Tape (2)



**User's Guide (this manual)
Warranty**

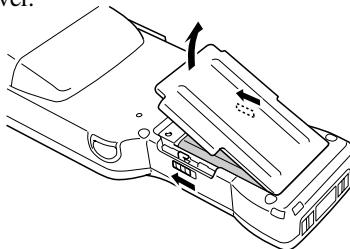
2. Charge the battery pack.

Charge the separately available battery pack (DT-5023BAT or DT-5025LBAT). You can use the Dual Battery Charger, the Cradle-type Battery Charger, or the Satellite Cradle to charge a battery pack.

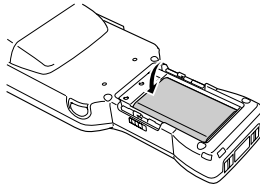
For information using these devices for charging, see page 36, 45, 49.

3. Load the battery pack into the Handheld Terminal.

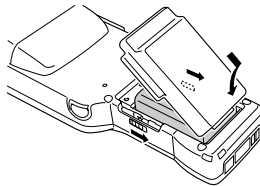
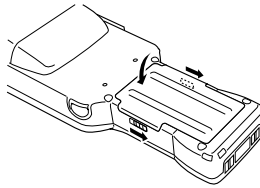
- ① Slide the two battery pack lock switches to the "FREE" position, and then remove the battery pack cover.



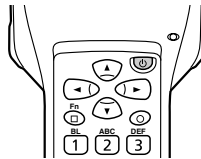
-
- ② Load a battery pack (DT-5023BAT) or a large-capacity battery pack (DT-5025LBAT). Take care that the battery pack is oriented correctly when you load it.



- ③ Replace the battery pack cover, and then slide the battery pack cover lock switches to the “LOCK” position. If you load a large-capacity battery pack, affix the large-capacity 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 use.



Stylus Operations

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

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

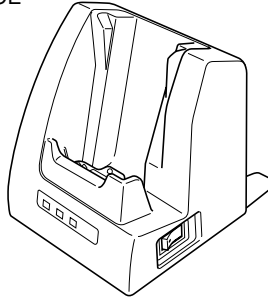
Drag: Hold the tip of the stylus against the touch screen as you drag from one location to another. This operation is the same as writing with a pencil on a piece of paper.

Handheld Terminal System Configuration

Optional Accessories

Satellite Cradle

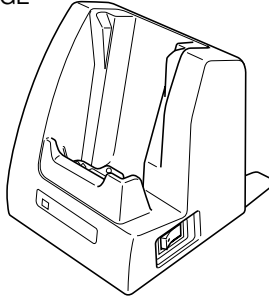
DT-160IOE



Bundled Items
AC Adapter
(AD-S42120AE)

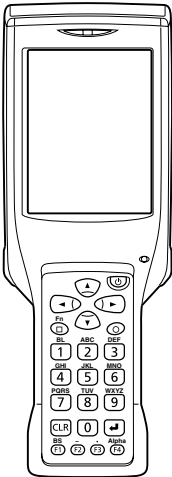
Cradle-type Battery Charger

DT-169CHGE



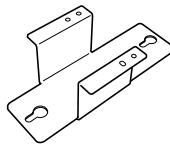
Bundled Items
AC Adapter
(AD-S42120AE)

DT-X10M30E
DT-X10M20E
DT-X10M20U
DT-X10M30U



Wall Mount Unit

Wall Mount Unit



Wall Mount Unit
Screws

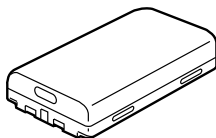


Screws

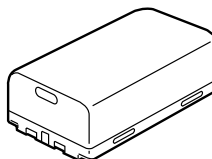


Battery Pack

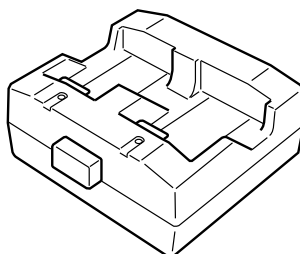
DT-5023BAT
(Battery Pack)



DT-5025LBAT
(Large-capacity Battery Pack)

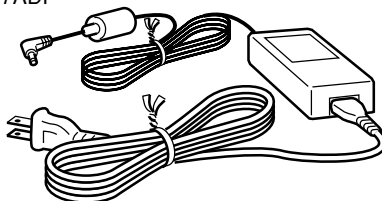


Dual Battery Charger DT-5022CHGE



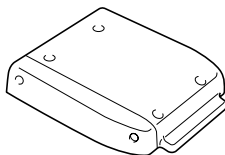
Dual Battery Charger AC Adapter

MPC-577ADP
MPC-177ADP



CF Card Extension Unit

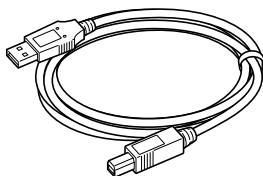
DT-894CFU



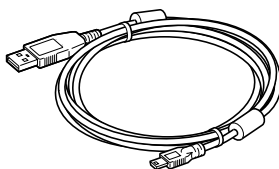
Bundled Items
Large Card Cover

Cables

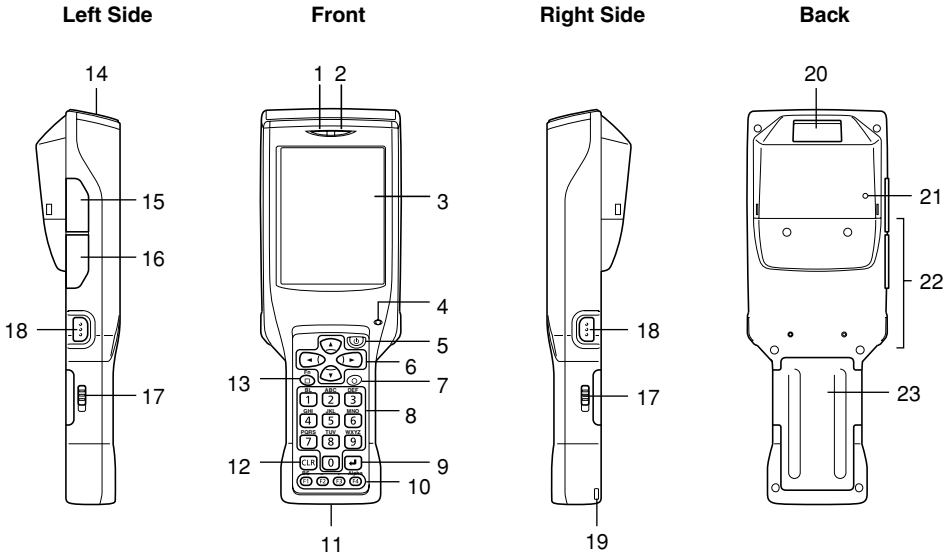
DT-882RSC	Satellite Cradle – PC Connection Cable (RS-232C)
DT-883RSC	Satellite Cradle – PC Connection Cable (RS-232C)
DT-887AXA	Satellite Cradle – PC Connection Cable (RS-232C)
DT-888RSC	Satellite Cradle Daisy Chain Cable
DT-380USB	Satellite Cradle – PC Connection Cable (USB)



SB-201	PC Connection Cable (USB)
--------	---------------------------



General Guide



1	Indicator 1	Lights green to indicate normal barcode or other data reading.
2	Indicator 2	Lights green to indicate charging is complete.
3	LCD Panel/Touch Screen	Shows text, operation indicators, etc. Also, operations can be performed and text can be input using the supplied stylus.
4	Buzzer	Emits a buzzer sound.
5	Power Key	Hold down for about one second to turn power on or off.
6	Cursor Keys	These keys operate much like a computer's cursor keys. They can be used to select items, scroll screen contents, etc.
7	Programmable Key	This key can be assigned with any function you want.
8	Numeric Keypad	Press these keys to input values.
9	Execute Key	Press to register an input value and advance to the next step.
10	Function Keys	These keys can be assigned any function other than barcode reading. The following are the initial default settings. F1: Deletes one character to the left. F2: Inputs a hyphen (-). F3: Inputs a period (.). F4: Cycles through character sets (numbers → alphabetic)

11	IR Port	This port is used for IR data communication with another Handheld Terminal or the Satellite Cradle.
12	CLR Key	Press to clear all key input.
13	Fn Key	Press this key and then a number key to access the function assigned to the number key.
14	PC Card Slot	For insertion of a separately available PC card.
15	USB Port	For connection of a USB cable.
16	Earphones Jack	For connection of commercially available earphones (Ø2.5mm).
17	Battery Pack Cover Lock Switches	Slide these switches to lock and release the battery pack cover.
18	Trigger Keys	Press to perform a barcode read operation.
19	Hand Strap Hole	Connect the hand strap here.
20	C-MOS Scanner	Reads barcode and 2-dimensional bar codes.
21	Reset Switch	Press to reset the Handheld Terminal.
22	CF Card Slot Unit Terminals	For connection of a separately available CF Card Extension Unit.
23	Battery Pack Cover	Covers the compartment that holds the battery pack.

Replacing the Battery

Your Handheld Terminal uses two types of batteries: a main battery and a backup battery.

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

The main battery is a battery pack. You can choose between a battery pack (DT-5023BAT) and a large-capacity battery pack (DT-5025LBAT).

The backup battery is a built-in type battery.

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

Main battery:	Rechargeable battery pack for normal operations and data storage
Backup Battery:	Built-in battery for memory backup
Battery Pack:	Battery pack (DT-5023BAT) or large-capacity battery pack (DT-5025LBAT)

When main battery 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, or the Satellite Cradle to charge a battery pack. See the sections of this manual that cover the Dual Battery Charger, the Cradle-type Battery Charger, and the Satellite Cradle for information about how to use them for charging.

Replacing the Main Batteries

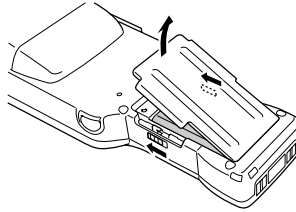
Important !

Always keep backup copies of all important data!

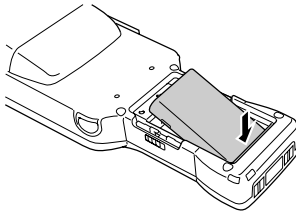
- **Since the backup battery provides the power required to maintain memory contents when the main battery power is unable to supply power for some reason, never remove the main battery from the Handheld Terminal while the backup battery is dead. Removing the main battery while the backup battery is dead causes data in Handheld Terminal 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 a battery pack before you plan to use it.**
- **The life of a battery pack is limited, and charging a battery pack causes it to gradually lose its ability to maintain a charge. If your battery pack seems to require charging very frequently, it probably means it is time to purchase a new one.**

To replace the battery pack

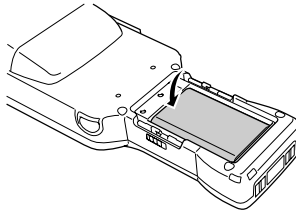
1. Make sure that the Handheld Terminal is turned off.
If power is on, press the power button to turn it off.
2. Turn over the Handheld Terminal.
3. Slide the two battery pack lock switches on both sides of the Handheld Terminal to the “FREE” position, and then remove the battery pack cover.



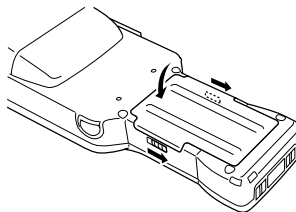
4. Remove the battery pack as shown in the illustration.



5. Taking care to ensure it is oriented correctly, load a new battery pack into the Handheld Terminal.



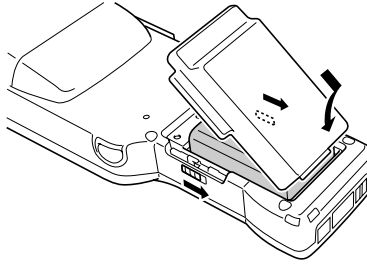
6. Replace the battery pack cover, and then slide the battery pack cover lock switches to the “LOCK” position.



Loading the large-capacity battery pack into the Handheld Terminal

After loading a 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 attachment and removal of the standard battery pack cover.



Important !

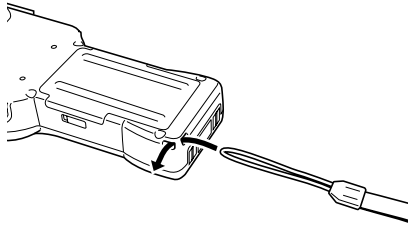
- When replacing the battery, make sure you do not leave the Handheld Terminal without a main battery for more than about 10 minutes. Doing so can cause data in Handheld Terminal memory to be deleted.
- When replacing the battery, be sure you carefully follow the proper procedure as explained in this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

Attaching the Hand Strap

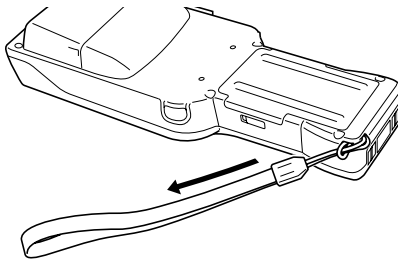
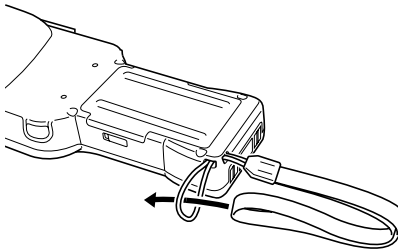
Be sure to attach the hand strap and use it to protect against dropping the Handheld Terminal when carrying it around.

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 where you insert your wrist) through the loop formed by the thin cord.



Important !

Do not allow the Handheld Terminal to swing around freely from the hand strap.

Configuring Handheld Terminal Settings

Calibrating Touch Screen Alignment

Whenever you feel that touch screen response is poor or that the operations being executed do not match the location you are tapping on the touch screen, perform the following steps to calibrate the alignment of the touch screen.

1. Press the “Fn” key and then press the “4” key.
2. On the touch screen, tap the “Start” button and then tap “Settings” on the menu that appears.
3. On the Control Panel, tap “Stylus”.
 - Next, follow the instructions that appear on the display to calibrate.

Adjusting Display Contrast

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

1. On the touch screen, tap the “Start” button and then tap “Settings” on the menu that appears.
2. On the Control Panel, tap “Contrast & Brightness”.
3. On the dialog box that appears, tap the [Contrast] tab.
4. Next, follow the instructions that appear on the display to adjust contrast.
 - You can also adjust screen brightness by pressing the “Fn” key and then pressing the “2” key to make contrast more vivid, or the “3” key to make contrast easier.

Adjusting Display Brightness

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

1. On the touch screen, tap the “Start” button and then tap “Settings” on the menu that appears.
2. On the Control Panel, tap “Contrast & Brightness”.
3. On the dialog box that appears, tap the [Brightness] tab.
4. Next, follow the instructions that appear on the display to adjust brightness.
 - You can also adjust screen brightness by pressing the “Fn” key and then pressing the “5” key to make contrast darker, or the “6” key to make contrast lighter.

Display Auto Dimmer

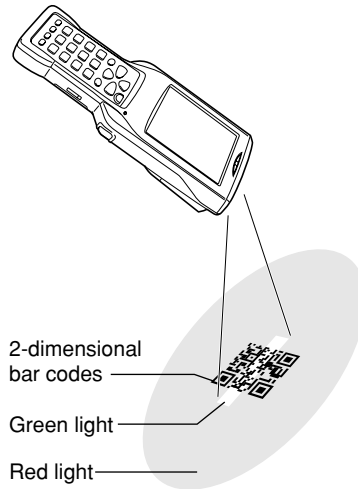
The display auto dimmer automatically lowers display brightness if you do not perform any operation for a specific amount of time. This helps to conserve battery power.

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

1. On the touch screen, tap the “Start” button and then tap “Settings” on the menu that appears.
2. On the Control Panel, tap “Contrast & Brightness”.
3. On the dialog box that appears, tap the [Backlight] tab.
 - Next, follow the instructions that appear on the display to specify the auto dimmer time.

Using the C-MOS Scanner

1. Turn on the Handheld Terminal, position its barcode reader port near the barcode or 2-dimensional bar code, and then press a Trigger key.



2. The Handheld Terminal LED emits light and reads the barcode.

Indicator 1 (read operation indicator lamp) lights green when reading is successful.

Barcode and 2-dimensional bar codes Reading Guide

When you press a Trigger key, LEDs in the Handheld Terminal emit green and red light. Align the green light with the center of the barcode or 2-dimensional bar codes you are trying to read. Take particular care aligning the light when there are other barcodes nearby.

When reading a large barcode, adjust the position of the Handheld Terminal so that all of the barcode is enclosed within the red light.

Important !

- **If you have problems properly reading a barcode, change the angle and/or the distance between the label and Handheld Terminal and try reading the barcode again.**
- **A barcode can be read from a distance of 60mm to 420mm (2 $\frac{3}{8}$ " to 4 $\frac{5}{8}$ ").**
- **For smaller barcodes, position the barcode reader port closer to the barcode.**
- **For larger barcodes, position the barcode reader port further from the barcode.**
- **Note that a reader application is required to read barcodes and 2-dimensional bar codes.**
- **The DT-870M52 supports reading of 2-dimensional bar codes.**

About the warning label



- This label identifies the light source of the Handheld Terminal as a Class 1 LED under the JIS C 6802 standard.
- A Class 1 LED momentarily emits strong light. Never look directly into the light emitted by the LED.
- Never use the barcode reader for any purpose that is not expressly specified by the contents of this manual. Doing so is very dangerous.
- The maximum output of the LED light is up to 1mW, and the wavelength is 650nm (25⁵/₈").



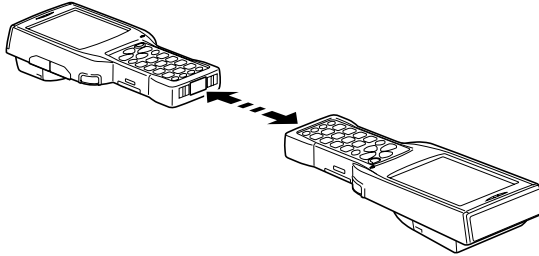
Warning

Never look directly into the LED light.

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).



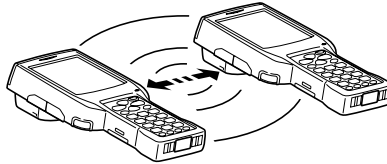
Important !

- **A high-sensitivity communication element is used during IR data communication.**
- **In order to ensure successful communication, avoid using portable 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 portable phone, keep it at least 30cm (11⅞") away.**

Bluetooth™ Data Communication

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 (9'10 $\frac{3}{8}$ ") 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 (9'10 $\frac{3}{8}$ ") 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 the communicating devices any electrical appliance, audio-visual equipment, office equipment, digital cordless telephones, facsimile machines, etc. Particular care is required in the case of a microwave oven. Allow at least three meters between the communicating devices and a microwave oven. Turning on such a device when it is nearby can interfere with proper data communication or 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.

• Wireless LAN Radio Interference

Because Bluetooth™ and wireless LANs 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.

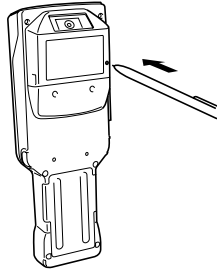
- Move at least 10 meters (32'10 $\frac{3}{4}$ ") away from the wireless LAN device.
- If you cannot move at least 10 meters away, turn off the Handheld Terminal or the wireless LAN device.
- Remove the wireless LAN card from the Handheld Terminal.

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 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 button 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.



When this message appears, press the right Trigger key to continue with the reset operation. Note, however, that reset may not be successful if the memory problem is a serious one. 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 memory (RAM) is deleted and all Handheld Terminal 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 Handheld Terminal 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 “XXXXX” appears

To perform a full reset

Important !

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

1. While the Handheld Terminal is turned on, hold down the power key as you use the stylus to hold down the reset button for about one second, until the message shown below appears on the display.



2. Press the right Trigger key. This causes the message shown below to appear.



3. Press the right Trigger key again.
 - This performs the full reset and deletes all data in memory (RAM).
 - Press the right Trigger key again. This will cause the startup screen to appear.

DT-X10 Specifications

Model: DT-X10M30E, DT-X10M20E, DT-X10M20U, DT-X10M30U

CPU: Intel® PXA250 Application Processor (300MHz max.)

Memory: 32MB RAM; 32MB Flash ROM (FlashFX built in)

OS: Microsoft® Windows® CE NET, English Version

Display: 3.5-inch, 240 × 320-dot color 2-Way TFT LCD

Serial Port:

Interface: USB slave (Mini B5 Pin)

Transfer Rate: 12Mbps (max.)

IR Port:

Interface: IrDA Ver. 1.1 Standard

Synchronization: Asynchronous, frame synchronization

Transfer Rate: Up to 4Mbps (max.)

Card Slot: PC Card Type I/Type II (3.3V/5.0V)

Bluetooth™ Data Communication:

Interface: UART

Protocol: Bluetooth™ Specification Ver.1.1

Range: Approximately 3 meters (depends on radio wave conditions and environment)

Output: 3dBm max.* (PowerClass2)

Earphones Jack:

Ø2.5mm (3-pole)

Supports monaural earphone or headphones.

Power Requirements:

Main Power Supply: DT-5023BAT Battery Pack

DT-5025LBAT Large-capacity Battery Pack

Backup Power Supply: Rechargeable Lithium Battery (Built-in)

Power Consumption: 1.5A DC, 3.7/5V

Battery Life:

Main battery: 8 hours (DT-5023BAT)

16 hours (DT-5025LBAT)

When standby-calculation-scan ratio is 20:1:1

Backup Battery: Data Protection: 10 minutes (when no power is being supplied by main battery)

Clock: 2 weeks (when no power is supplied by main battery)

Operating Temperature: -20°C to 50°C (-4°F to 122°F)

Water and Dust Resistance: JIS Water Resistance Standard, IEC529 IP54 Standard

*When all connectors and covers are closed.

Approximate Dimensions: 77(W) × 220(D) × 47(H) mm (3"H × 8⅝"D × 1⅞"H)

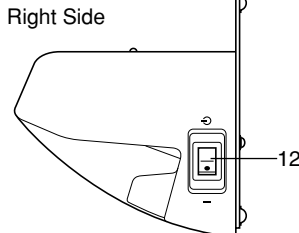
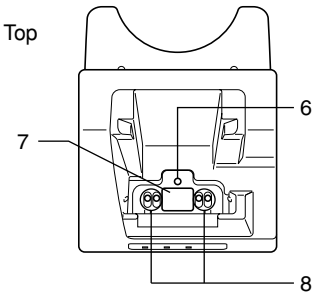
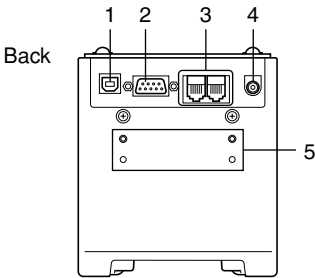
Approximate Weight: 350g (12.3oz)

Using the Satellite Cradle (DT-160IOE)

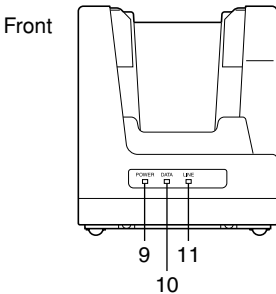
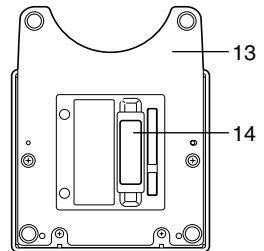
The optionally available Satellite Cradle (DT-160IOE) makes it possible to transfer system data and file data between the Handheld Terminal and a computer over an RS-232C connection or USB connection. You can also connect to the Satellite Cradle to charge the Handheld Terminal battery.

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

General Guide



Bottom



Bundled Items

AC Adapter
(AD-S42120AE)

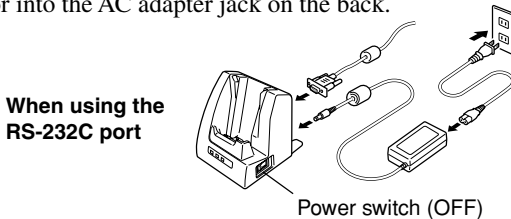


1	USB Port	This port accepts connection of a USB cable for connection to a computer for transfer of system data and file data. Use of the USB port requires installation of a special driver on the PC.
2	RS-232C Port	This port accepts connection of an RS-232C cable for connection to a computer for transfer 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	This port is used when connecting to another Satellite Cradle.
4	AC Adapter Jack	Connect the bundled AC adapter 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 Handheld Terminal is not seated correctly on the Satellite Cradle.
7	IR Port	This port transfers data with the Handheld Terminal IR port non-contact data communication.
8	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.
9	Power Indicator Lamp	This lamp indicates the mounting status of the Handheld Terminal. Off: Power off Green: Power on, Handheld Terminal not mounted Red: Power on, Handheld Terminal mounted correctly
10	Communication Indicator Lamp	This lamp shows when the Handheld Terminal is performing data communication. Off: No data communication being performed Green: Data communication in progress Red: Problem with a connection between two Satellite Cradles
11	System Status Indicator Lamp	This lamp indicates whether the system is operating normally. Regardless of whether or not a Handheld Terminal 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.
12	Power Switch	Turns power on and off.
13	Desktop Unit	This is the base when using the Satellite Cradle in a desktop configuration. Remove the desktop unit in the case of a wall-mount configuration.
14	DIP Switches	Use these switches to configure the Satellite Cradle as required.

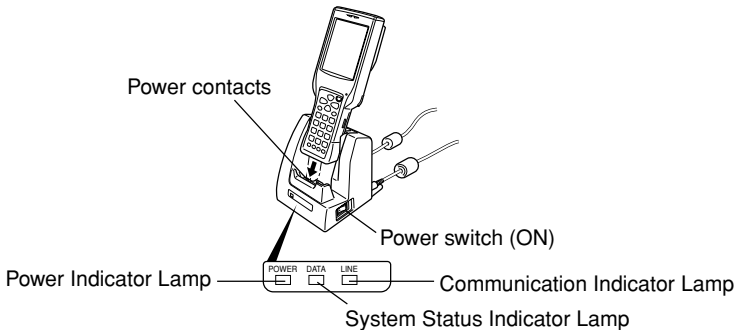
Connecting the Satellite Cradle AC Adapter and Connecting to a Computer

Use the AC adapter that comes bundled with the Satellite Cradle to supply power to it. Always make sure that power is being supplied to the Satellite Cradle by the AC adapter before performing any type of data communication operation with the Handheld Terminal. The Handheld Terminal draws power via the Satellite Cradle during data communication.

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



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



3. After making sure that the Satellite Cradle and your computer are both turned off, remove the cap from the Satellite Cradle connection ports, and then perform one of the following steps to connect to your computer.

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

RS-232C Connection

- Connect an RS-232C cable (DT-883RSC, DT-882RSC, DT-887AXA) to the RS-232C port of the 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 Satellite Cradle. Connect the other end to your computer's USB port.

-
4. Turn on power. This causes the Satellite Cradle power indicator lamp to light red.
 5. Making sure that their two IR ports come into contact with each other, place the Handheld Terminal onto the Satellite Cradle. This causes the Satellite Cradle power indicator lamp to light green.
- If the system is operating normally and data communication is enabled, the system status indicator lamp lights green.
 - The communication indicator lamp flashes green when data communication starts.

Important !

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

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

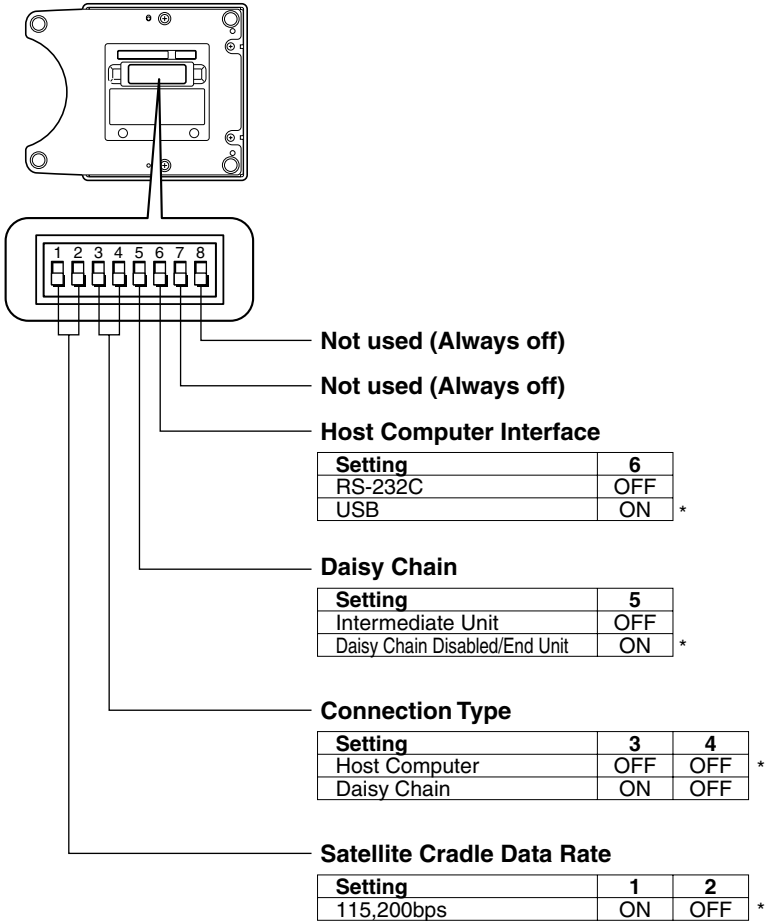
If you need to use such a device, move away from the communicating Handheld Terminals. In case of a portable phone, keep it at least 30cm (11 $\frac{7}{8}$ ") away.

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

Shorting the power contacts can damage the Satellite Cradle.

Configuring DIP Switch Settings

A bank for DIP switches is located on the bottom of the Satellite Cradle. You can change the on/off settings of the DIP switches to configure the Satellite Cradle to meet your needs. After you change DIP switch settings, the new settings do not go into effect until you turn the Satellite Cradle off and then back on again.



Not used (Always off)

Not used (Always off)

Host Computer Interface

Setting	6
RS-232C	OFF
USB	ON *

Daisy Chain

Setting	5
Intermediate Unit	OFF
Daisy Chain Disabled/End Unit	ON *

Connection Type

Setting	3	4
Host Computer	OFF	OFF *
Daisy Chain	ON	OFF *

Satellite Cradle Data Rate

Setting	1	2
115,200bps	ON	OFF *

*Initial factory default setting

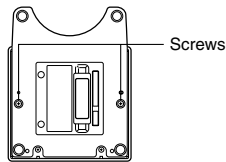
Important !

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.

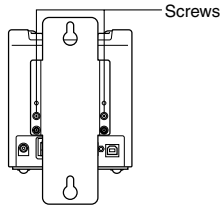
Using a Wall Mount Configuration

The following procedure explains how to use the optional wall mount unit to configure the Satellite Cradle for a wall-mounted configuration.

1. Remove the screws on the bottom of the Satellite Cradle, and remove the desktop unit.

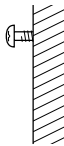


2. Affix the wall mount unit to the bottom of the Satellite Cradle, and secure it in place with the wall mount unit screws.

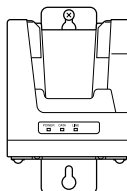


3. Drive one of the provided screws into the wall at the location where the upper hole of the wall mount unit is to be when you mount the unit on the wall.

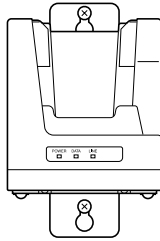
Do not drive the screw into the wall all the way. Keep a space of about 2mm ($\frac{1}{8}$ ") between the head of the screw and the wall surface.



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



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



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

To remove the Satellite Cradle from the wall

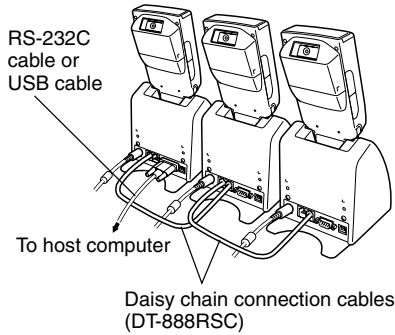
1. Loosen the upper screw and lower screw.
2. Raise the Satellite Cradle and remove it from the screws.

Important !

- **While the Satellite Cradle is mounted on a wall, be sure to check the wall screws periodically for looseness. Tighten them as required.**
- **Note that RS-232C connection is not supported by the wall-mounted. Connect using a USB cable or daisy chain cable.**

Daisy Chaining Multiple Satellite Cradles (DT-160IOE)

You can daisy chain multiple Satellite Cradles by connecting the C-OUT port of the unit that is closer to the host computer to the C-IN port of the unit that is further from the host computer.



Important !

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

Satellite Cradle (DT-160IOE) Specifications

1. IR Data Communication

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

2. RS-232C

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

3. RS-422

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

4. USB

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

5. Power Supply

Power Requirements:	Special AC adapter
Power Consumption:	9V DC, approximately 400mA
Handheld Terminal Output:	5V DC 300mA (max.)

6. AC Adapter

Model:	AD-S42120AE
Input:	100V to 240V AC 50/60Hz 98 to 115VA
Output:	12V DC 3500mA

7. Functions

IR interface
RS-232C interface
RS-422 interface
USB interface

8. Dimensions and Weight

Approximate Dimensions:	Desktop: 110(W) × 139(D) × 129(H) mm (4 ³ / ₈ "W × 5 ¹ / ₂ "D × 5 ¹ / ₈ "H)
	Wall Mount: 110(W) × 148(D) × 153(H) mm (4 ³ / ₈ "W × 5 ⁷ / ₈ "D × 6"H)
Approximate Weight:	Desktop: 490g (17.3oz)
	Wall Mount: 650g (22.9oz)

9. Operating Environment

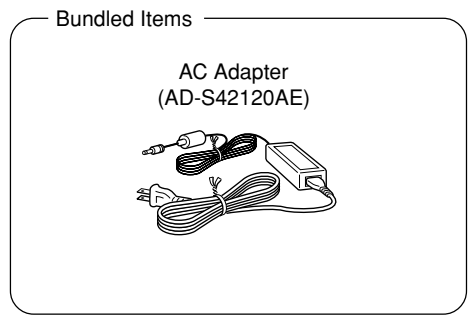
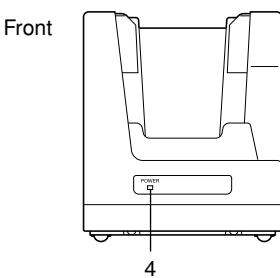
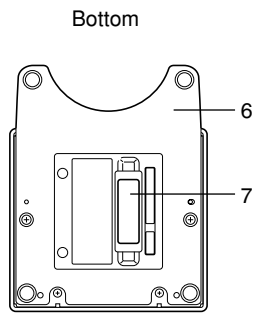
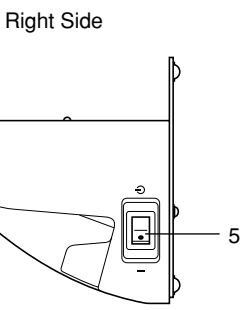
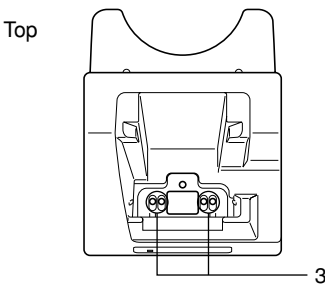
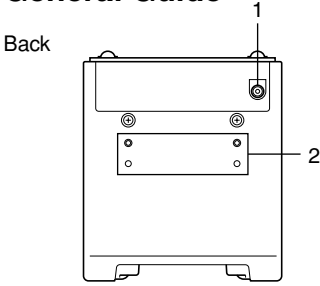
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Operating Humidity:	30% to 80% RF (non-condensation)

Using the Cradle-type Battery Charger

The optionally available Cradle-type Battery Charger (DT-169CHGE) lets you charge the Handheld Terminal's battery simply by placing the Handheld Terminal onto the cradle.

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

General Guide

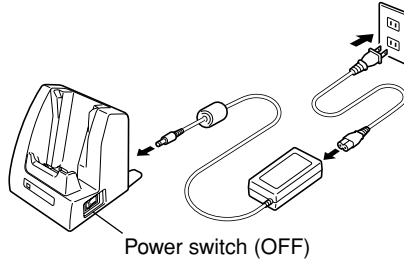


1	AC Adapter Jack	Connect the bundled AC adapter here.
2	Wall Mount Unit Fastening Plate	The holes in this plate accept screws that secure the wall mount unit in place.
3	Power Contacts	Power is supplied to the Handheld Terminal via these contacts.
4	Power Indicator Lamp	This lamp indicates the power status and the connection status of the Handheld Terminal. Off: Power off Red: Power on, Handheld Terminal not mounted Green: Power on, Handheld Terminal mounted correctly
5	Power Switch	Turns power on and off.
6	Desktop Unit	This is the base when using the Satellite Cradle in a desktop configuration. Remove the desktop unit in the case of a wall-mount configuration.
7	DIP Switches	Use these switches to configure the Satellite Cradle as required.

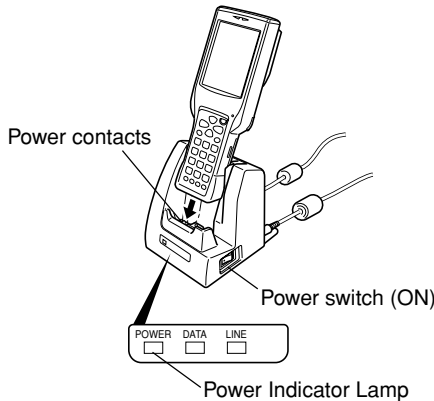
Connecting the Cradle-type Battery Charger AC Adapter and Mounting the Power PC Terminal

Use the special AC adapter that comes with the Cradle-type Battery Charger to connect to a power source.

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



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

The indicator on the Handheld Terminal changes from red to green when charging is complete.

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 the Cradle-type Battery Charger.

Using a Wall Mount Configuration

To wall mount the Cradle-type Battery Charger, use the same procedure as that described for the Satellite Cradle (DT-5060IO) on page 39.

Cradle-type Battery Charger (DT-169CHGE) Specifications

Power Requirements:

Output: 5V DC 1.0A

Charging:

Charging System: Fixed-voltage (with current limiter)

Charge Time: Approximately 4 hours (battery pack)

Approximately 8 hours (large-capacity battery pack)

Power Requirements:

Special AC Adapter (AD-S42120AE)

Power Consumption:

Approximately 800mA

Operating Temperature:

0°C to 40°C (32°F to 104°F)

Approximate Dimensions:

Desktop: 110(W) × 139(D) × 129(H) mm (4 $\frac{3}{8}$ "W × 5 $\frac{1}{2}$ "D × 5 $\frac{1}{8}$ "H)

Wall Mount: 110(W) × 148(D) × 153(H) mm (4 $\frac{3}{8}$ "W × 5 $\frac{7}{8}$ "D × 6"H)

Approximate Weight:

Desktop: 470g (16.6oz)

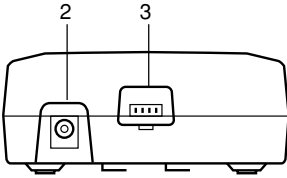
Wall Mount: 630g (22.2oz)

Using the Dual Battery Charger

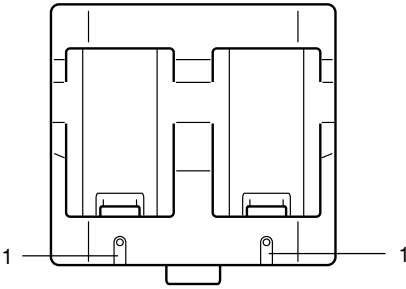
The optionally available Dual Battery Charger (DT-5022CHGE) lets you charge two battery packs at the same time.

General Guide

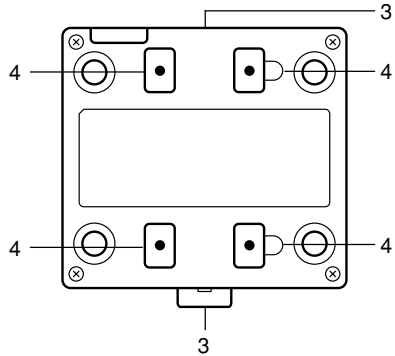
Top



Front

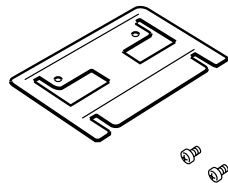


Back



Bundled Items

Connection Bracket
2 screws



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 Adapter Jack	Connect the AC adapter 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 !

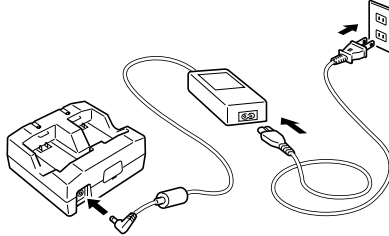
Each Dual Battery Charger comes with one connection bracket.

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

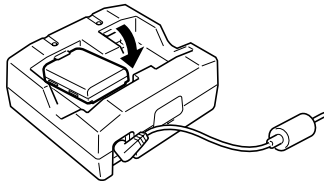
Simply keep the other connection bracket on hand as an extra, in case you ever need it.

Charging a Battery Pack

1. Plug the separately available special AC adapter into a wall outlet.



2. Plug the other end of the AC adapter into the AC adapter jack of the Dual Battery Charger.
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 red, indicating that charging has started.



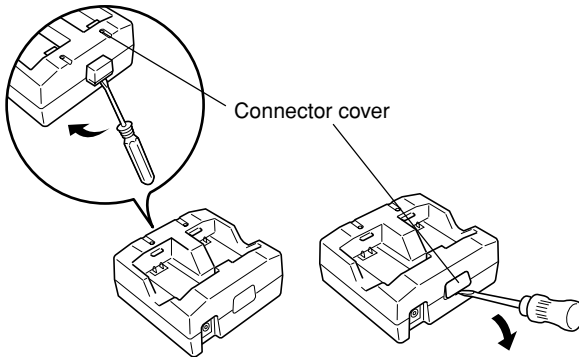
Charge Indicator Lamp

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

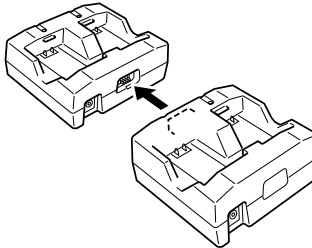
Connecting Multiple Dual Battery Chargers

You can connect up to three Dual Battery Chargers. Doing so makes it possible to supply power to all Dual Battery Chargers using a single AC adapter.

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

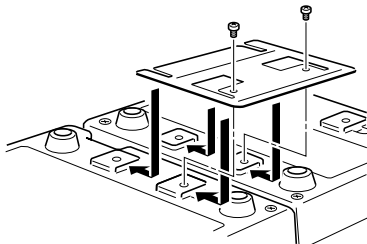


2. Connect the two Dual Battery Chargers as shown below.



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 three Dual Battery Chargers.



Dual Battery Charger (DT-5022CHGE) Specifications

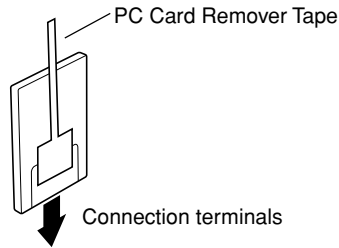
Model:	DT-5022CHGE
Charging:	
Charging System:	Fixed-voltage (with current limiter)
Charge Time:	Approximately 2.5 hours for one battery pack Approximately 5 hours for one large-capacity battery pack
	Charging Two Battery Packs
	Approximately 5 hours for two battery packs Approximately 10 hours for two large-capacity battery packs
Power Requirements:	
	Special AC adapter (MPC-577ADP) (MPC-177ADP)
Consumption Current:	Approximately 650mA
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Dimensions:	110(W) × 100(D) × 49(H) mm (4 $\frac{3}{8}$ "W × 4"D × 1 $\frac{7}{8}$ "H)
Weight:	Approximately 154g (5.4oz)

Using a PC Card

Your Handheld Terminal supports use of PC cards. Use the following procedure to load and remove PC cards.

Affixing a PC Card Remover Tape

Once loaded, some PC cards may be difficult to remove from the PC card slot. Affixing a PC card remover tape to the PC card before you load it makes it easier to pull the card out of the slot later.

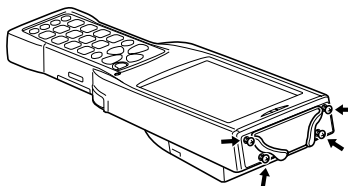


Important !

Always affix the PC card remover tape to the PC card adapter, not the PC card itself, whenever loading a CF card into the Handheld Terminal using a PC card adapter. If you affix the tape to the CF card instead of the adapter, pulling the tape may end up pulling out the CF card only, and make it impossible to remove the PC card adapter.

To load a PC card

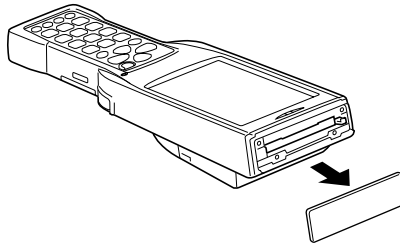
1. Carefully lift up either end of the rubber PC card slot cover, and remove the four screws that secure it in place.



Important !

Be gentle when lifting up the ends of the PC card slot cover rubber to expose the screws. Pulling on the rubber or other rough handling can cause the rubber to break.

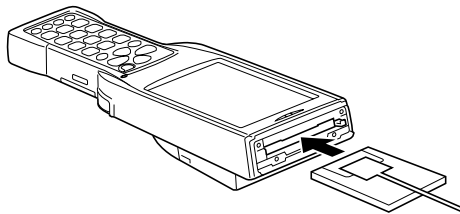
2. Remove the PC card slot cover.



3. Slide a PC card with a remover tape affixed into the Handheld Terminal.

Make sure that the top surface of the card is facing in the same direction as the Handheld Terminal display. You will not be able to insert the card all the way into the slot if it is not oriented correctly.

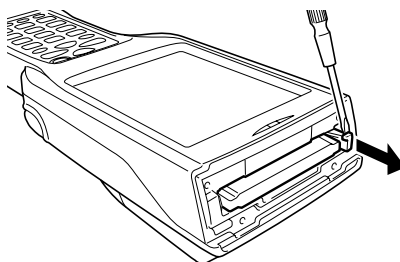
Be sure to fold the tab part of the remover tape affixed to the card so it is not damaged when you replace the card compartment cover.



4. Replace the PC card compartment cover, and secure it in place with its screws.

Important !

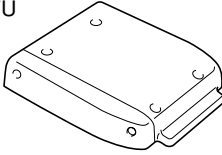
If you cannot eject a PC card from the slot for some reason, carefully use a flat blade screwdriver to pull out on the lever to the right of the card, as shown in the illustration. While pulling out on the tab, pull the card from the slot. Never try to pull on the tab with your fingernail. Doing so can cause your fingernail to break.



Using a CF Card Extension Unit

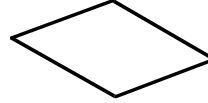
The CF Card Extension Unit (DT-894CFU) supports use of CF Type I cards and Type II cards (3.3/15V).

DT-894CFU



Bundled Items

Large Card Cover



Use the procedure below to load and remove CF cards.

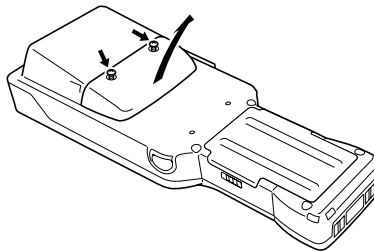
Important !

- **Installing some cards will make it impossible to close the card slot cover. When that happens, you can either use the Large Card Cover or you can use the Handheld Terminal and CF card without a card slot cover. Keep the card slot cover in a safe place where you will not lose it.**
- **When using a CF storage card, be sure to close the card slot cover.**

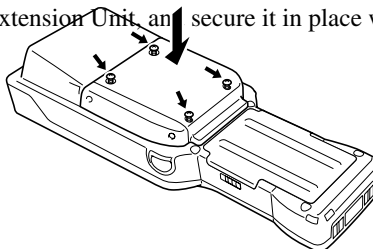
Attaching the CF Card Extension Unit

Attach the CF Card Extension Unit to the back of the Handheld Terminal. The CF Card Extension Unit connector is located under a protective cover.

1. Loosen the screws that secure the cover in place, and then remove the cover.

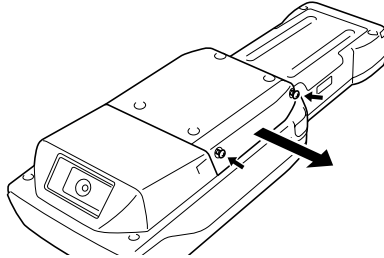


2. Attach the CF Card Extension Unit, and secure it in place with its screws.

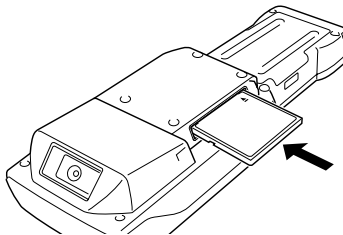


Loading a CF Card

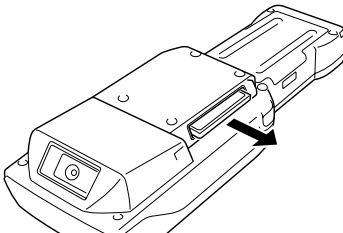
1. Wipe the surfaces of the card so it is free of any dirt, dust, or oil.
2. Remove the screws that secure CF Card Extension Unit in place, and then remove the card slot cover.



3. Making sure that the top surface of the card is facing in the same direction as the Handheld Terminal display, slide the card into the slot.
You will not be able to insert the card all the way into the slot if it is not oriented correctly.



4. Replace the CF card compartment cover, and secure it in place with its screws.
When removing a card, hook your finger on the rim of the card and pull.



CF Card Extension Unit (DT-894 CFU) Specifications

Card Slot: Compact Flash Card Type I/Type II (3.3V)

Approximate Dimensions: 70(W) × 78(D) × 13(H) mm (2¾"W × 3⅛"D × ½"H)

Approximate Weight: 40g (1.4oz)

Using a 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 Handheld Terminal.

Important !

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

Battery Pack Specifications

Model:

DT-5023BAT

Rated Capacitance:

1550mAh

Rated Voltage:

3.7V

Approximate Dimensions:

37(W) × 57(D) × 13(H) mm (1½"W × 2¼"D × ½"H)

Approximate Weight:

45g (1.6oz)

Bundled Items:

Soft case

Large-capacity Battery Pack Specifications

Model:

DT-5025LBAT

Rated Capacitance:

3400mAh

Rated Voltage:

3.7V

Approximate Dimensions:

37(W) × 57(D) × 24(H) mm (1½"W × 2¼"D × 1"H)

Approximate Weight:

87g (3.1oz)

Bundled Items:

Soft case

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 in any way. High voltage inside creates the danger of electric shock. There are hot parts inside the printer. Do not touch these parts with your hands. Doing so can cause burns.

Abnormal Conditions



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

Moisture



- Though your Handheld Terminal is splash-resistant, its Communication Unit and other optional peripherals are not. Keep loose metal objects and containers filled with liquids away from your Handheld Terminal.

Also, never connect or disconnect peripherals to the Handheld Terminal while it is wet. Water getting into the Handheld Terminal or its peripherals creates the danger of fire and electric shock.

Warning!

Interference with the Operation of Other Equipment



- Do not perform any data communication operations on the Handheld Terminal or turn the Handheld Terminal off whenever you enter a hospital or any other location where medical equipment is being used. Take particular care to observe this warning when entering an operating room, intensive care unit (ICU), coronary care unit (CCU), etc. Radio waves emitted during data communication can affect the operation of medical equipment and cause it to malfunction.
- Keep your Handheld Terminal at least 22 centimeters away from anyone wearing a pacemaker. Radio waves emitted by the Handheld Terminal can affect the operation of a pacemaker.
- In order to protect against the danger of unintentional interference with operation of a pacemaker worn by someone else, do not perform wireless data communication operations on the Handheld Terminal or turn the Handheld Terminal off before boarding a crowded train or entering any other crowded area. Radio waves emitted by the Handheld Terminal can affect the operation of a pacemaker.

Warning!

- Do not perform wireless data communication operations on the Handheld Terminal or turn the Handheld Terminal off when boarding an aircraft. Radio waves emitted by the Handheld Terminal can interfere with the aircraft's navigation system.

Caution

Foreign Objects



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

Location



- Do not locate the Handheld Terminal 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 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 for long periods in a car parked in direct sunlight.

Heavy Objects



- Never place heavy objects on top of the Handheld Terminal. Doing so creates the danger of loss of balance and the object 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 with either fresh water or salt water. 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 (-) terminals must be oriented correctly when it is loaded into the charger unit or the Handheld Terminal. Connecting the battery pack with its terminals 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 charger unit to charge the battery pack. Use of another type of charger unit 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. 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 battery is incorrectly replaced.
Replace only with same or equivalent type recommended by the manufacture. Dispose of used batteries according to the manufacture's instruction.
- 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 the charger unit 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 Optical Communication Unit, be sure to use the AC adaptor (sold separately). Use of another 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 your original dealer or a 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 onto 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 Handheld Terminal. 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 Handheld Terminal.
- 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 Handheld Terminal unattended for long periods.

AC Adaptor

Caution



- The outer cover 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 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 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 Optical Communication Unit to transfer data to a computer.