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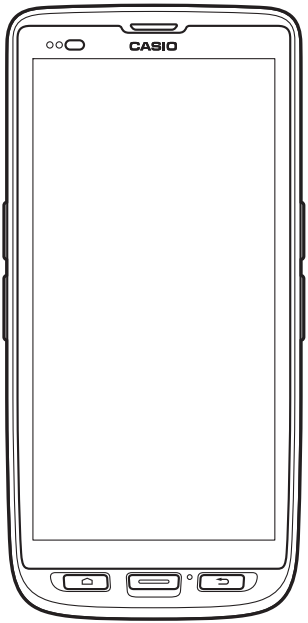
CASIO

Rugged Smart Handheld Terminal

ET-L10 Series

User's Guide

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



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Important

Information in this document is subject to change without advance notice. CASIO Computer Co., Ltd. makes no representations or warranties with respect to the contents or use of this manual and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose.

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.
- To replace or remove the battery, contact your original retailer.

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.**
- **Toute manipulation a l'aide de procedures autres que celles specifiees dans ce Mode d'emploi est dangereuse et doit etre evitee.**

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.

⚠ 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.

Operating Precautions

⚠ Warning

Disassembly and Modification



- Never try to disassemble or modify the terminal and its options in any way.

Abnormal Conditions



- Should the terminal and/or its options 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.

Foreign Objects



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

Dust and Moisture



- Though the terminal is designed to be waterproof, optional products such as the cradle-type battery charger are not and should not be exposed to moisture. Keep loose metal objects and containers filled with liquid away from your terminal and the options. Also, never handle the terminal and the options while your hands are wet.

Laser Light



- This product uses laser light. Never look directly into the laser light or shine the laser light into the eyes.
- Ce produit utilise une lumière laser. Ne regardez jamais directement la lumiere laser ni ne dirigez la lumiere laser dans les yeux de quelqu'un.

Avoid contact with fire



- Do not bring the terminal into contact with fire. Doing so may result in a fire or injury.

Storage and Operation Locations

Do not store or use the product in any of the locations described below.

- Areas subjected to large amounts of moisture and dust.
- Near a heating device, on an electric carpet, in a location exposed to direct sunlight, in a car parked outside, or any other area where the product is subjected to high temperatures.
- Food preparation areas, near a humidifier, or in areas where the product is exposed to oil smoke or water vapor.
- Areas where there is strong vibration.
- Do not place the product on an unsteady platform, on a high shelf, or in any other unstable location.

Location



- Install the cradle properly on a flat and stable surface so that it cannot fall down onto floor.

Other areas where there are high or low temperatures. (Operating temperature range: -10 to 50°C, Charging temperature range: 0 to 40°C)

Do not place heavy objects on the product.

- Dropping and tipping over create the risk of personal injury.

⚠ Warning

LCD Screen



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

Should the LCD become cracked, never touch any of the liquid inside.

- LCD liquid getting on the skin creates the risk of skin irritation.
- Should LCD liquid get into your mouth, immediately rinse your mouth out and contact your physician.
- Should LCD liquid get in your eyes or on your skin, rinse with clean water and then contact your physician.

Locations exposed to flammable gases



- Before entering locations where flammable gases may occur, such as a gas station, always ensure that the terminal is switched off. Failing to do so could cause the gases to ignite.

Low Temperature Burn



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

Avoid Use While In Motion

- Do not use the product or view the monitor while operating an automobile or other vehicle, or while walking.

⚠ Caution

LED Light, Scanner and Other Light Emitting Functions



- Do not fire LED light, the scanner or other light emitting functions while pointed in the direction of a person operating a motor vehicle.

Using the Wireless Data Communication Function

⚠ Warning

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



- Should you notice radio interference or other problems on other devices is being caused while using this product, do not use the wireless function.
- When using the product in a medical facility or aircraft, follow the instructions of local personnel and crew concerning use of such devices.
  Do not use the product in an area where use of such devices is prohibited.
- Do not use the product in the vicinity of high-precision electronic equipment or any electronic equipment that handles weak signals.
- Keep this product away from the chest area of any individual fitted with a cardiac pacemaker.
- Turn off the wireless function and the product while on a train or in any other crowded location.
- Turn off the wireless function or enter the Airplane Mode while on a train or in any other crowded location.

Built-in Battery

⚠ Danger



- Do not splash water on the terminal or otherwise bring it into contact with water or seawater. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not use or place the terminal in a hot location, such as close to a fire or heater. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not heat the terminal or throw it into a fire. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not throw the terminal or subject it to strong impacts. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not pierce the terminal with a nail, hit it with a hammer or step on it. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not attempt to disassemble or modify the terminal. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not put the terminal into a microwave oven or pressurized container. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- If you notice any fluid leakage, unusual odor, overheating, discoloration, deformation or other abnormality in the terminal, move it away from any exposed flame. Do not use the product in such circumstances. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not use or leave the terminal in a location subject to high temperatures, such as in direct sunlight or inside a vehicle in hot weather. Doing so could cause the terminal to overheat or catch fire. It could also impair the performance of the built-in battery or shorten its service life.



- Charge the terminal using the dedicated battery charger. Using another battery charger could cause the built-in battery to overheat, rupture or catch fire.
- Should fluid leaking from the terminal get into your eyes, avoid rubbing and immediately rinse it out thoroughly with clean tap water. Then consult a physician without delay.
- Should fluid leaking from the terminal get onto your skin or clothing, immediately rinse it off thoroughly with clean tap water. Fluid left on the skin could cause a rash or other problem.

⚠ Warning



- If the time for which the product can be used becomes much shorter than previously, there may be a problem with the built-in battery and you should stop using it. Attempting to charge a faulty built-in battery could cause it to overheat, rupture or catch fire.
- If charging is not completed even when the specified charging time is exceeded, stop charging. Continuing to charge the built-in battery could cause it to overheat, rupture or catch fire.

⚠ Caution



- Do not use the terminal in locations exposed to static electricity. Doing so could cause the built-in battery to overheat, rupture or catch fire.
- Do not leave the terminal in an area used by animals. If the terminal is bitten, the built-in battery could overheat, rupture or catch fire.
- Do not use the terminal if it is noticeably swollen.
- Do not leave the terminal in a high or low temperature environment while using, storage or transportation the terminal. Explosion, flammable liquid or gas may leak.
- The terminal subjected to extremely low air pressure may result in an explosion, the leakage of explosion or the leakage of flammable liquid or gas.

⚠ Caution

- Store the terminal out of the reach of small children.

Power Supply / AC Adapter

⚠ Warning

- Do not use the terminal at a voltage other than the specified voltage. Also, do not connect the terminal to a multi-plug power strip.
- Never modify, sharply bend, twist, or pull on the power cord.
- Never use a detergent to clean AC adapter and its power cable, especially on the plug and the jack.
- Do not use an AC adapter with a bent connector.
- Do not twist or wrench the connector.
- When using the chargers, be sure to use the respective AC adapters.
- Never pull on the power cord when unplugging it.
- Never touch the plug while your hands are wet.
- Do not use the AC adaptor while it is wet.*
  * Avoid water, sports drinks, seawater, animal or pet urine, and other liquid.
- Be sure to unplug the power cord from the wall outlet before cleaning the chargers.
- Unplug the power cord from the wall outlet whenever leaving the chargers unattended for a long period.
- Use the included power cord with this product only.
- Use only the specified type of AC adaptor.
- Use only the included power cord.
- Insert the power plug into the outlet as far as it will go.
- Continued use creates the risk of fire and electric shock.
- Do not place a flower vase or any other liquid container on top of the AC adaptor or power cord.
- Before leaving the product unattended, unplug the AC adaptor from the power outlet, and move the product to a location away from animals.

⚠ Caution

- 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 adapter.
- Choose a location where the power cord is readily accessible and can be easily plugged in and unplugged.
- When using the AC adapter, 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.
- At least once a year, unplug the AC adapter 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.

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

Pay attention to electric shock.

⚠ Caution



- If you do not plan to use the product for a long time, unplug from the power outlet.

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 terminal, malfunction or repair of the terminal or its peripherals, or due to the batteries going dead.
- The terminal uses electronic memory to store data, which means that stored data may be lost or corrupted if the battery cannot maintain a set power supply. This can occur in situations such as the terminal being left for some time with a depleted battery. Data cannot be recovered once it is lost or corrupted. Be sure to make backup of all important data.

Regulatory Information

Europe

ET-L10

Options of ET-L10

CE

Manufacturer:
CASIO COMPUTER CO., LTD.
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Importer
Casio Europe GmbH
Casio-Platz 1, 22848 Norderstedt, Germany

www.casio-europe.com

- Please keep all information for future reference.
- The full text of the EU declaration of conformity is available at the following internet address: http://doc.casio.com/
- Products are for distribution within all member states of the EU.

The options of ET-L10 are HA-T30CHG, USB Type-C cable and USB AC adapter. For Europe model is ET-L10-WC21.

Maximum radio output power

- IEEE802.11a/b/g/n: 2.4GHz ≦ 20dBm, 5GHz ≦ 20dBm
- Bluetooth: 2.4GHz ≦ 12dBm
- GSM: 900MHz ≦ 36dBm, 1800MHz ≦ 33dBm
- WCDMA: 850/900MHz ≦ 25.7dBm, 1900MHz ≦ 25.7dBm
- LTE: 850/900MHz ≦ 25.7dBm, 1800/1900MHz ≦ 25.7dBm, 2500MHz ≦ 25.7dBm
- NFC: 13.553MHz to 13.567MHz band ≦ 40dBμA/m at 10m.

Hereby, “CASIO COMPUTER CO., LTD.” declares that the radio equipment type “ET-L10” is in compliance with Directive 2014/53/EU.

Operating Precautions

Your 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 using the battery once it is exhausted.**
  Doing so could result in data loss or corruption. When the battery is exhausted, replace it immediately.
- **Stop or avoid using the terminal and its options in areas and conditions subject to the following.**
  — Large amounts of static electricity
  — Extreme heat or cold or humidity
  — Sudden temperature change
  — Large amount of dust
  — After large amount of rain or water falls on the terminal
  — Pressing the screen or keys with excessive force when using in the rain
- **Always use the dedicated eject pin to eject the nanoSIM/microSD card tray.**
- **Do not use volatile chemical substances such as thinners, benzene or toiletries to clean the terminal.**
  When the terminal is dirty, wipe it clean with a soft, dry cloth. Rubbing with excessive force could scratch the display.
- **The power-supply terminals should be cleaned periodically 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.
- **LCD panel**
  The following are characteristics of the LCD panel and do not indicate a fault.
  — The LCD panel is manufactured using high-precision technology and features a minimum of 99.99% effective pixels. There may be some pixels that fail to light or that remain permanently lit.
  — If the same screen is displayed on the panel for a prolonged period, its afterimage may persist after a new screen is displayed. The afterimage will fade after a few moments.
- **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.
- **Do not use a strap other than the one supplied.**
- **Built-in battery**
  The terminal's battery is built into the terminal and cannot be removed.
  The built-in battery has a limited service life. The way the built-in battery is charged can accelerate its degradation or reduce its capacity so that it cannot be used for as long. If charging the built-in battery does not restore its full functionality, this indicates that it has reached the end of its life. If this occurs, request a replacement.
  Using the correct charging procedures will maximize the service life of the built-in battery.
  — You should charge the built-in battery fully the first time you use it and whenever it has not been used for a long period. Continue charging until the charging status LED lights green (fully charged).

— Frequent repeated charging will shorten the life of the battery. You should wait until the battery is low on charge before charging it.
— Charge the battery within the specified temperature range. Note that the specified temperature range varies depending on the equipment used. Refer to the User's Guide (download version). Charging outside the specified range can cause battery deterioration.
— When used in low-temperature environments, the built-in battery capacity may be lower so that it cannot be used for as long. It may also shorten the life of the built-in battery.
— Charging when the terminal is cold can cause built-in battery deterioration. After working in a cold environment, allow the terminal to warm up to room temperature (leave for roughly 1 hour) before charging.
— For long-term storage, do not store the built-in battery fully charged. The battery should be 30-50% charged for long-term storage and it should be stored at a low temperature. This will minimize battery deterioration.
Note also that even when not being used, the built-in battery will gradually discharge. If this situation continues for a long period (several months or more), the built-in battery will become overdischarged, which may impair quality and performance.
— Rechargeable batteries will deteriorate over time. Storing (or using) fully charged batteries at high temperatures in particular can lead to faster deterioration.

- **Drop resistance**
  The drop resistance is a test value only and is not guaranteed.
  Repeated or frequent shocks may still result in damage, so the terminal should be handled so as to avoid impacts.
- **Water or other moisture on the power-supply terminals could cause sparking or an electric shock, and soiled contacts could block the connection and impair charging functionality.**
- **While the ET-L10 is waterproofed, note the following when using this product:**
  - If the ET-L10 is exposed to water droplets, thoroughly wipe off the moisture with a dry cloth.
  - Do not use the ET-L10 for long periods in the rain.
  - Securely close the connector covers when using the ET-L10.
  - Do not press hard on the screen (touch panel) or keys when using the ET-L10 in the rain.
- **The back of the ET-L10 may become warm during use. This is normal and does not indicate a fault.**
- **Weld Lines**
  There are seam-like markings in some locations on the terminal. These are referred to as “weld lines” in the plastic forming process and are not cracks or scratches. Weld lines do not interfere in any way with the operation of the terminal.
- **Limited-life parts**
  This product includes limited-life parts (memory, LCD panel, etc.).
  The approximate period for which limited-life parts can be used differs according to the frequency of use and other conditions. However, in normal use, this period is roughly 3 years assuming the product is used for roughly 8 hours per day.
  The above period is intended solely as a general guide and in no way guarantees that the parts will not develop a fault or will be repaired at no cost within that period.
  Note also that in some types of use, such as extended continuous use, the parts may need to be replaced (at a fee) sooner or within the product warranty period.

• **Repairs to terminals configured with a Google account**
If a terminal needing repairs has been configured with a Google account, delete the Google account settings before sending the terminal to be repaired.
During repairs, Casio resets the terminal to the factory default status. However, terminals with a Google account are equipped with the Google device protection function, which prevents unauthorized use in the event that it is lost or stolen. To reset a terminal configured with a Google account to the factory default status, the Google account credentials must be entered. For this reason, the user must delete the Google account settings registered in the terminal.
Refer to the following website for information on how to delete the Google account settings:
https://www.casio-intl.com/asia/en/support/ht/android_repair/

About the Waterproofing/Dustproofing

The ET-L10 Series models are waterproof and dustproof.

Important!

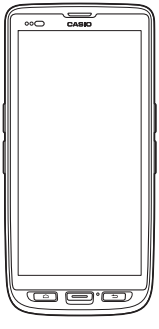
The water- and dust-proofing performance of this product is based on CASIO testing procedures. Note also that this performance applies to the product at the time of shipment (delivery to the customer) and is not guaranteed inclusive of the environment in which the product is used. The warranty does not apply to any situation where the product is immersed during use, and as with any other electrical product, great care should be taken when using this product in the rain or similar situation.

• **Precautions When Using this Product**
— Check that there is no dust, sand or other foreign matter on the USB port cover and its respective contact surfaces. Wipe off any foreign matter using a clean and dry soft cloth. If any soiling is found, wipe it off with a clean, soft, dry cloth. Even very small amounts of soiling trapped on the contact surfaces (a single hair or grain of sand, etc.) can cause water to leak into the device.
— Check that the waterproof seals on the USB port cover are free from cracks and other damage.
— Avoid opening and closing the USB port cover in locations near water or exposed to sea breezes, and do not open or close it with wet hands.
— Do not drop this product or leave it in locations exposed to temperatures outside the specified range. Doing so will impair its water- or dust-proofing.

• **Other Precautions**
— The accessories and optional products for this product (cradle-type battery charger, etc.) are not water- or dust-proof.
— Subjecting this product to a severe impact could render it no longer water- or dust-proof.
— If any water leaks into the product as a result of carelessness or inattention during product handling, CASIO cannot be held liable for compensation for any damage to internal components (built-in battery, recording media, etc.) or for the costs of recorded content or the recording thereof.
— CASIO COMPUTER CO., LTD. accepts no other liability whatsoever for any accident that occurs due to water leakage.

Accessories and Options

Rugged Smart Handheld Terminal ET-L10 Series



Accessories

Make sure all items listed below are included before using the terminal for the first time.

- **Hand Strap**
- **USB Type-C cable**
- **Eject Pin**
- **USB AC adapter**
- **4 USB AC Adapter Plugs (Type A, BF, C, O)**
- **Screen Protect Sheet (affixed to terminal)**
- **User's Guide**

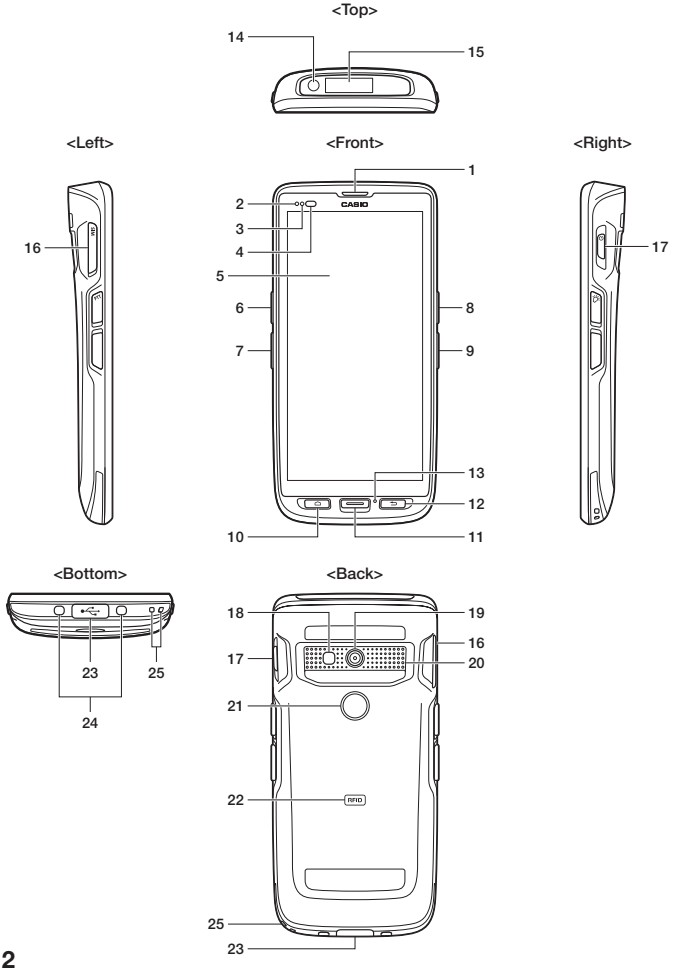
Options

- **Cradle-type Battery Charger HA-T30CHG**
- **Screen Protect Sheet (replacements (pack of 10)) HA-T90PS10**

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

Part Names

Smart Handheld Terminal (ET-L10)



No.	Name	Description
1	Receiver	Receiver for voice call
2	Charging Status LED	Show charging status or battery status
3	Notification LED	Show notifications of the scanner
4	Illuminance /Proximity Sensor	Measure brightness and proximity of object
5	Screen (Touch Panel)	Display words and operation instructions Input data in IT-G400 by finger
6	PTT Key	Used to set optional functions. Using the supported app allows you to use this as a call button for the transceiver.
7	L Trigger Key	Scan barcode Able to set an optional function
8	Flashlight Key	Press twice to turn on the flashlight. Press again to turn off.
9	R Trigger Key	Scan barcode Able to set an optional function
10	Home Key	Go home screen
11	Center Trigger Key	Scan barcode Able to set an optional function
12	Back Key	Back to previous screen Close dialog box, option menu and notification panel
13	Microphone	Microphone
14	Flashlight	Press this key to turn on the flashlight.
15	Scanner	Laser or LED light of 2D imager radiates to read barcode
16	nanoSIM/microSD Card Slot	Attach a nanoSIM card and a microSD card.
17	Power Key	Power down/power on ET-L10
18	LED Light	Torch around and camera flash
19	Camera	Take picture and movie
20	Speaker	Outputs alarm tones and other sounds
21	Fingerprint Sensor	Used for fingerprint authentication
22	NFC Reader	Reading NFC card
23	USB Type-C Port	Connects the USB Type-C cable for USB communication Connect the USB AC adapter and USB Type-C cable to charge the ET-L10.
24	Power Supply Terminal	Used to supply power to the terminal
25	Strap Hole	Attach strap

Getting Ready to Use

* In step 2, be sure to fully charge the terminal.

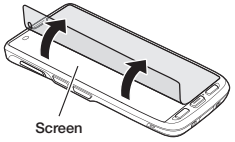
1. Confirm that all the items listed on page 11 are included in the package.
2. Charge the terminal. (→ page 17)
3. Turn the power on. (→ page 22)

Replacing the screen protect sheet

A screen protect sheet is affixed to the terminal.
If the sheet is worn or peeling, replace it as described below.

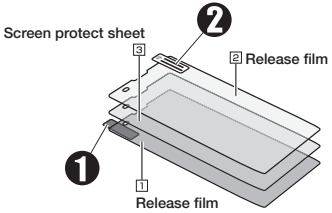
Removing the screen protect sheet

1. Slowly peel the sheet off the screen from the edge.

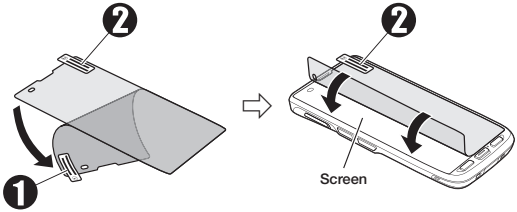


Attaching the screen protect sheet

1. Wipe off any dirt from the liquid-crystal screen.
2. The screen protect sheet consists of three layers, as shown in the figure.

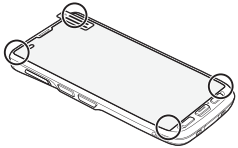


3. Using tape ❶, peel off the release film (1) and attach the screen protect sheet (3) to the terminal.

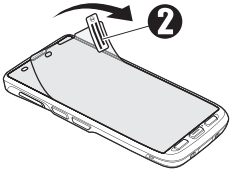


Tips!

So that the screen protect sheet attaches uniformly, ensure that its long edge is just touching the edge of the liquid-crystal screen and that the sheet is not skewed.



4. Using tape ❷, peel off the release film (2).



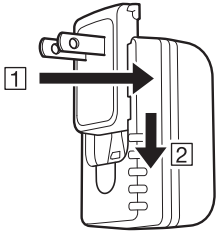
Installing and Removing the AC Adapter

The AC adapter must be fitted with a suitable power plug for the region where the terminal will be used.

IInstallation

1. Insert the protruding part of the AC adapter plug into the recess in the top of the AC adapter (1) until the plug clicks into place (2).

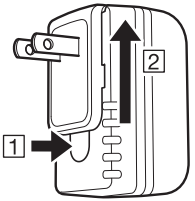
USB AC adapter



Removal

1. Push the AC adapter plug release lever in the direction indicated by the arrow in the figure (1) and then pull out the AC adapter plug in the direction of the arrow (2).

USB AC adapter



Precautions for Use

- **Do not insert the plug only into the power outlet.**

Charging the Terminal

You can charge the ET-L10 using the enclosed USB Type-C cable, the USB AC adapter or the optional cradle-type battery charger. Check the charging status LED to confirm the ET-L10 charging status.

ET-L10 Charging status LED display

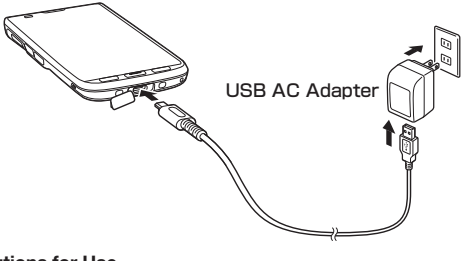
Red: Charging
Green: Charging complete
Off: The terminal is not connected to the USB AC adapter or battery charger.

Charging when the rechargeable battery is almost fully charged (around 90% charged or higher)

Continued charging for long periods when the rechargeable battery is already almost fully charged will hasten battery degradation. To maximize battery life, charging is restricted when the terminal's battery is almost fully charged.

① If the terminal is turned OFF (shut down) and the level of charge in the rechargeable battery is around 90% or more, the charging status LED lights red, but the battery is not charged when you connect the terminal to the AC adapter or cradle-type battery charger.
② If the terminal is turned OFF (shut down) and the level of charge in the rechargeable battery is around 90% or more, and you then turn the terminal on while it is connected to the AC adapter or cradle-type battery charger, the startup screen appears, the charging status LED lights green and no charging occurs despite the rechargeable battery not being fully charged.
③ To charge the battery fully in situation ① or ②, briefly disconnect the USB Type-C cable with the terminal still turned ON and then re-insert it. (If you are using the battery charger, briefly remove the terminal from the charger and then place it back in the charger.)
④ To fully charge the rechargeable battery without interrupting the charging, turn the terminal ON and then connect it to the AC adapter or cradle-type battery charger.

USB Type-C Cable

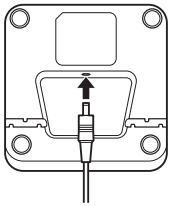


Precautions for Use

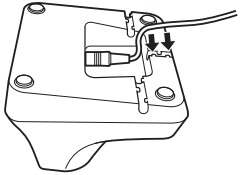
- **If you begin charging the terminal when the built-in battery is fully discharged, it may take several minutes for the charging status LED to light.**
- **Take care to avoid trapping the cover between the USB cable and the USB Type-C port.**
- **After attaching the cable, check that the charging status LED is lit.**

Cradle-type Battery Charger

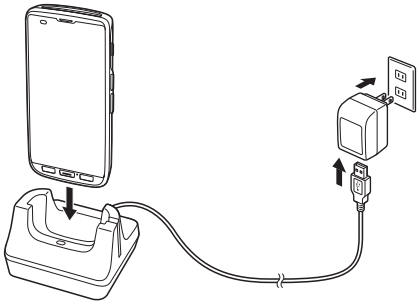
1. Plug the USB DC cable into the AC adapter jack in the bottom of the cradle-type battery charger.



2. Plug the USB DC cable into the power cable slit.



3. Connect the USB DC cable to the AC adapter and then plug the AC adapter into the mains power outlet.
   Place the ET-L10 in the cradle-type battery charger socket so that the terminals in the base of the ET-L10 are touching the power contacts in the cradle-type battery charger.

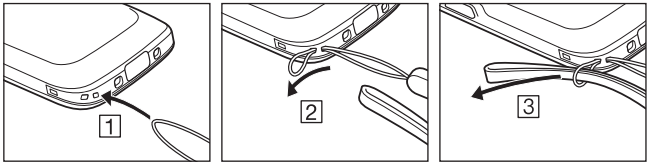


Precautions for Use

- **Take care not to trap objects such as the strap in the cradle.**
- **The power supply terminal should be cleaned periodically using an implement such as a dry cotton bud.**
  Soiling or dust buildup could cause connection problems.
- **After attaching the cable, check that the charging status LED is lit.**
- **If you begin charging the terminal when the built-in battery is fully discharged, it may take several minutes for the charging status LED to light.**
- **At high or low ambient temperatures, charging will be restricted to protect the built-in battery. At such temperatures, the level of battery charge may not reach 100% even when the charging status LED is green and charging is completed.**
- **Water or other moisture on the power contacts could cause sparking or an electric shock, and soiled contacts could block the connection and impair charging functionality. To ensure safety, clean the power contacts by wiping them off with a dry cloth or cotton bud after you disconnect the AC adapter.**
- **When disconnecting the AC adapter from the mains power outlet or the cradle-type battery charger, do so by gripping the plug or connector, not by pulling the cord.**

Attaching the Hand Strap

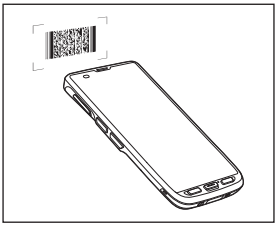
Use the procedure below to attach the hand strap to the strap holes.



Using the Scanner

1. After turning on the power, position the barcode reader 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, Notification LED displays a green light.



Precautions for Use

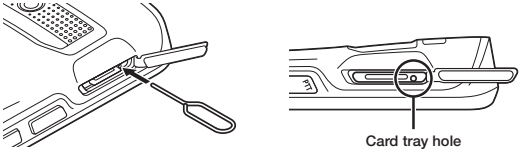
- **If you have problem not properly reading a code, change the angle and/or the distance between the code and the terminal and try reading it again.**
- **A bar code can be read from a distance of 50mm to 400mm. The actual reading distance depends on the symbology and the resolution.**
- **Soiling on the barcode reader port may prevent successful reading. Should the reader port become dirty, wipe it clean with a soft and dry cloth.**

Using a nanoSIM or microSD Card

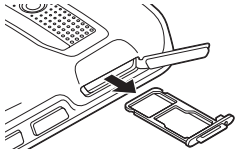
This terminal supports nanoSIM cards and microSD cards.
To use WAN functions, a SIM card must be installed.

Installing the nanoSIM/microSD card

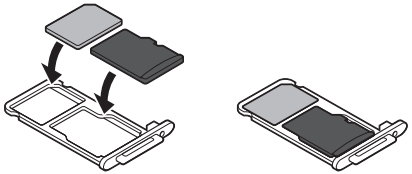
1. Turn the terminal off (shut it down). (The terminal must be shut down.)
2. Flip back the nanoSIM/microSD card tray cover.
   Fit the eject pin into the hole in the card tray and then push it into the hole.



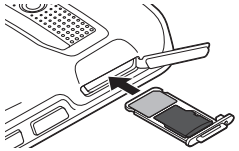
3. Remove the nanoSIM/microSD card tray.



4. Load the nanoSIM card or microSD card into the nanoSIM/microSD card tray.



5. Install the nanoSIM/microSD card tray in the terminal and close the cover.



Removing the nanoSIM/microSD card

1. Turn the terminal off (shut it down). (The terminal must be shut down.)
2. Remove the nanoSIM/microSD card tray. **(Steps 2 and 3 in the installation procedure on page 20)**
3. Remove the nanoSIM card or microSD card from the nanoSIM/microSD card tray.
4. Install the nanoSIM/microSD card tray in the terminal and close the cover. **(Step 5 in the installation procedure on page 20)**

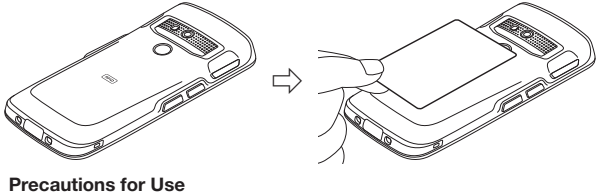
Precautions for Use

- **The front and back of the card are different, so the card must be oriented correctly when inserted into the slot. Take care when inserting the card as attempting to insert the card incorrectly could damage the card.**
- **Touching the contact area when installing a card could result in damage to the card due to soiling or an electrostatic charge.**
- **When turning off the terminal, be sure to select "Shutdown" and not "Sleep".**
- **nanoSIM cards and microSD cards can be installed either separately or both at the same time.**
- **Always install the nanoSIM/microSD card tray, even when no nanoSIM/microSD card is used.**

Handling the NFC

The NFC is a technology of contactless IC card for short range communication that enables writing data to card and reading data from the card by applying the card close to the NFC Reader.
The integrated NFC can read a contactless IC card used typically for employment identification, etc.

1. Hold the card flat against the NFC reader on the back of the terminal.



Precautions for Use

- **Do not apply card while it is overridden by other card. The NFC may not read it correctly.**
- **A metal object near by the NFC Reader may cause the NFC not to read card correctly. Take the card out of a wallet if the wallet is with metal object before applying it to the NFC Reader.**
- **Apply card in parallel with the NFC Reader to touch the NFC Reader with the card.**
- **The NFC reader function in the terminal uses very weak radio waves that do not require a radio station license.**
- **Frequency band used by the NFC is 13.56 MHz. Secure a sufficient space between the terminal and other reader/writer located in the vicinity. Make sure also that a radio station employs the same frequency band does not locate near by prior to using the terminal.**

Turning the Power On/Off and Sleep

Turning the Power On

1. Hold down the Power key until the terminal vibrates.
   • The startup screen is displayed.

Precautions for Use

- **When you first purchase the ET-L10, be sure to completely charge the terminal's built-in battery before turning the power on for the first time.**
- **If the terminal does not start up normally when you turn the power on, the level of charge in the built-in battery may be too low. Completely charge the terminal's built-in battery and then turn the power on again.**

Turning the Power Off (Shutdown)

1. With the screen displayed, hold down the Power key until the Power menu is displayed.
2. Tap "Power off".

Sleep (Standby)

1. Press the Power key with the screen displayed.
   • In the sleep state, the screen is turned off, but the terminal remains running.
   • Operating state is maintained. Press the Power key and you will be able to use the terminal immediately.

Built-in Battery

The terminal's battery is built into the terminal and cannot be removed.
When the battery is low on charge, the charging status LED flashes red.
Charge the built-in battery promptly when it runs low on charge.
See "Charging the Terminal" (page 17) for information on charging methods.

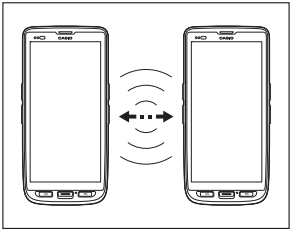
Precautions for Use

- **The level of charge in the built-in battery may decline due to natural discharge. Always charge the battery before use.**
- **The built-in battery has a limited service life. Depending on the way the built-in battery is charged, its degradation may accelerate or its capacity be reduced so that it cannot be used for as long. If charging the built-in battery does not restore its full functionality, the battery has reached the end of its life and must be replaced. Contact your CASIO dealer or an authorized CASIO service provider.**

Performing Communications

Bluetooth® Communication

Bluetooth® interface can also be used to transfer data between two terminals.
With Bluetooth® the two terminals should be located within about five meters 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 two terminals face each other within five meters. Surroundings (obstacles) between the terminals may cause a shorter distance.**
- **Make sure there is at least two meters between the 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 between the terminals in wireless operation and a microwave oven. When operating the terminal in Bluetooth nearby these devices and electrical appliances with their powers being turned on, communication may be interrupted or radio receptions may be interfered.**
- **Normal communication may not be possible in an area near a broadcast trans-mitter or wireless transmitter. If this happens, move the terminal to a different location. Normal communication may not be possible in areas exposed to strong radio waves.**
- **Interference by WLAN**
  Because Bluetooth® and WLAN use the same frequency band (2.4GHz), radio interference can occur if there is a WLAN device nearby. This can result in lower communication speed, or even make it impossible to establish a connection. If this happens, try the following countermeasures.
  - Move at least 10 meters away from the WLAN device.
  - If you cannot keep the distance at least 10 meters or more between the terminal and a WLAN device, turn off the power of either the terminal or the WLAN device.
- **If the terminal's wireless LAN and Bluetooth® communication are used at the same time, ambient radio signals may make communication impossible.**

Rebooting the Terminal

If the terminal no longer operates normally due to a problem such as an operating error or severe impact, use the procedure below to attempt to restore normal operation.

1. Reboot

2. Forced Reboot

Reboot

1. With the screen turned on, hold down the Power key until the Power menu is displayed.
2. Tap “Reboot”.

Forced Reboot

1. Hold down the Power key until the terminal vibrates (approx.12 seconds).

ET-L10 Specifications

	ET-L10-WC21 / ET-L10-WC21-AO	Remark
CPU	Qualcomm 1.8GHz Octa Core	
OS	Android™ 9	
Memory	RAM: 2GB FROM: 16GB	
Display	(5.7 inches), 720 x 1440-dot TFT Color LCD	
Scanner *1	2D Scanner (Imager)	
Camera	13M pixels Auto Focus	
Microphone	Voice sound input	
Speaker	For voice sound input and voice call at phone	
WLAN *2	IEEE 802.11a/b/g/n/ac	
Bluetooth *3	v5.0, EDR/LE	
WAN *4	LTE/W-CDMA/GSM	
GPS *5	GPS, GLONASS, BeiDou	
NFC *6	Supported Cards : ISO14443 TypeA, ISO14443 TypeB, ISO15693, FeliCa	
microSD	SDHC	
USB	USB 2.0	
SIM	nanoSIM Card	
Main Battery	Lithium battery (rechargeable)	Built-in
Operating Period *7	12 hours	At room temperature with a new built-in battery
Operating Temperature	-10ºC ~ 50ºC *8	
Operating Humidity	10% ~ 90%RH	
Drop Durability	1.5m *9	
Dust / water-resistance	IP65 level	
External dimensions	Approx. 79mm x 162mm x 15.5mm	
Weight	Approx. 240g	
Vibrator	notification of scanner	
Sensors	Proximity sensor / Light Ambient sensor / Acceleration sensor/ Fingerprint Sensor	
RTC	Maximum monthly rate : 2min10sec (Use main battery)	

*1
Scanner Specifications

Item		Specification
Scanner (Imager)	Method	CMOS Imager, 832 × 640, monochrome
	Aimer method	Laser 650nm, < 1mW
	Laser emit angle	Redirected downward: 10 degree
	Resolution	1D : 0.127mm 2D Stacked : 0.169mm 2D Matrix : 0.191mm
	PCS	0.45 (minimum) or greater
	Readable distance	1D : 50 ~ 400mm 2D Stacked : 50 ~ 230mm 2D Matrix : 70 ~ 300mm
	Readable width	Max. 42mm (at 50mm depth) Max. 276mm (at 400mm depth)
	Focal distance	5.0 inches
	Daylight for scanning	50,000 Lux or less
	Readable 1D symbologies	UPC-A/UPC-E/EAN8 (JAN8)/EAN13 (JAN13)/Codabar (NW-7)/Code39/ Interleaved2of5 (ITF)/MSI/Code93/Code128/GS1-128 (EAN128)/ GS1 DataBar Omnidirectional (RSS-14)/ GS1 DataBar Limited (RSS Limited)/ GS1 DataBar Expanded (RSS Expanded)/GS1 DataBar Truncated (RSS-14)
	Readable Stacked 2D symbologies	PDF417/Micro PDF/Composite/ GS1 DataBar Stacked Omnidirectional (RSS-14 Stacked)/ GS1 DataBar Expanded Stacked (RSS Expanted Stacked)/ GS1 DataBar Stacked (RSS-14 Stacked)
	Readable Matrix 2D symbologies	Aztec/DataMatrix/Maxicode/QR Code/Micro QR/HanXin Code

*2
WLAN Speficications

Item		Specification	Remark
WLAN 802.11a/b/g/n/ac	Frequency Range	2412 MHz – 2472 MHz (1 ~ 13ch) 5180 MHz – 5320 MHz (36 ~ 64ch) 5500 MHz – 5700 MHz (100 ~ 140ch) 5745 MHz – 5825 MHz (149 ~ 165ch) (802.11d: Allowed frequency range can be used according to countries or regions.)	
	Baud rate	802.11a/g: 54Mbps (maximum) 802.11b: 11Mbps (maximum) 802.11n HT20 (2.4&5GHz): 72Mbps (maximum) 802.11ac: 433Mbps (maximum)	
	Communication Distance	Communication Distance 802.11b/g/n: Indoor 50m, Outdoor 150m (n: 2.4GHz) 802.11a/n/ac: Indoor 30m, Outdoor 150m (n: 5GHz)	It can change due to surrounding environment

*3
Bluetooth Speficications

Item		Specification	Remark
Bluetooth	Frequency Range	2402 MHz ~ 2480 MHz	
	Communication Distance	Approx. 5m	It can change due to surrounding environment

*4
Wireless WAN Specifications

Item		Specification
LTE	Communication	Data Packet
	Baud rate	Downlink: 150Mbps (maximum) Uplink: 50Mbps (maximum)
	Frequency range Band	FDD 1 (1920-1980MHz/2110-2170MHz) FDD 3 (1710-1785MHz/1805-1880MHz) FDD 5 (824-849MHz/869-894MHz) FDD 7 (2500-2570MHz/2620-2690MHz) FDD 8 (880-915MHz/925-960MHz) FDD 18 (880-915MHz/925-960MHz) FDD 19 (830-845MHz/875-890MHz) FDD 20 (832-862MHz/791-821MHz) TDD 38 (2570-2620MHz/2570-2620MHz) TDD 39 (1880–1920MHz/1880–1920MHz) TDD 40 (2300–2400MHz/2300–2400MHz) TDD 41 (2555-2655MHz/2555-2655MHz)
W-CDMA	Communication	Audio, Data Packet
	Baud rate	Downlink: 42Mbps (maximum) Uplink: 11Mbps (maximum)
	Frequency range Band	BAND 1 (1920-1980MHz/2110-2170MHz) BAND 6 (830 - 840MHz/875 - 885MHz) BAND 8 (880-915MHz/925-960MHz)
GSM	Communication	Audio, Data Packet
	Protocol	GSM/GPRS/EDGE
	Frequency range Band	EGSM900 (880-915 MHz/925-960 MHz) DCS1800 (1710-1785 MHz/1805-1880 MHz)

*5
GPS Speficications

Item		Specification
GPS	WAN and GNSS modes	Standalone-GNSS (without WAN) A-GPS
	Protocol	NMEA
	Sensitivity	Acquisition sensitivity: -135 dBm Tracking sensitivity: -145 dBm

*6
NFC Speficications

Item		Specification	Remark
NFC	Depth of Field	ISO14443 Type A/B, FeliCa: 0 mm (Contact)	It can change by the design of Card or Tag
		ISO15693: 0 mm (Contact) ~ 50 mm (Maximum)	

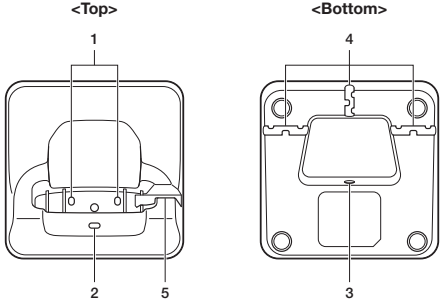
*7
According to JEITA G mode
LCD backlight brightness minimum, WLAN ON (with stable RF connection), Buzzer minimum, Vibrator OFF, RF OFF (except for WLAN)

*8
• Built-in battery charge operation: 0 ~ 40ºC
Charging stops if the internal temperature of the built-in battery is 0°C or below or 40°C or above.

*9
The drop durability height is a measured value resulting from actual testing. It does not necessarily guarantee the product from damage

Cradle-type Battery Charger

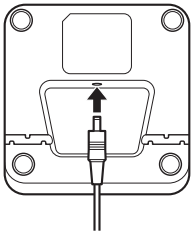
You can charge one ET-L10 unit in the cradle-type battery charger.



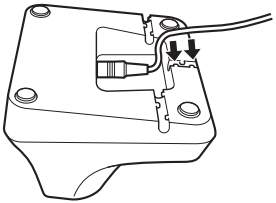
No.	Name	Description
1	Power Contacts	Power is supplied to the ET-L10 via these contacts
2	Power Status LED	This LED indicates the power status Off : Power off Green: Power on
3	AC Adaptor Jack	Connect the AC adaptor here.
4	Power cable slit	Fit the power cable.
5	Strap slit	To attach the strap to the terminal, run the strap through this slit.

Connecting to the power supply and to the terminal

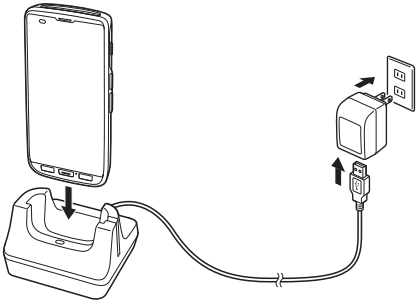
1. Plug the USB DC cable into the AC adapter jack in the bottom of the cradle-type battery charger.



2. Plug the USB DC cable into the power cable slit.



3. Connect the USB DC cable to the AC adapter and then plug the AC adapter into the mains power outlet.
   Place the ET-L10 in the cradle-type battery charger socket so that the terminals in the base of the ET-L10 are touching the power contacts in the cradle-type battery charger.



ET-L10 Charging status LED display

Red: Charging
Green: Charging complete
Off: The terminal is not connected to the USB AC adapter or battery charger.

Precautions for Use

- **Take care not to trap objects such as the strap in the cradle.**
- **The power supply terminal should be cleaned periodically using an implement such as a dry cotton bud.**
  Soiling or dust buildup could cause connection problems.
- **After attaching the cable, check that the charging status LED is lit.**
- **If you begin charging the terminal when the built-in battery is fully discharged, it may take several minutes for the charging status LED to light.**
- **At high or low ambient temperatures, charging will be restricted to protect the built-in battery. At such temperatures, the level of battery charge may not reach 100% even when the charging status LED is green and charging is completed.**
- **Water or other moisture on the power contacts could cause sparking or an electric shock, and soiled contacts could block the connection and impair charging functionality. To ensure safety, clean the power contacts by wiping them off with a dry cloth or cotton bud after you disconnect the AC adapter.**
- **When disconnecting the AC adapter from the mains power outlet or the cradle-type battery charger, do so by gripping the plug or connector, not by pulling the cord.**

Cradle-type Battery Charger (HA-T30CHG) specifications

1. Charging specifications

Charging method	: Constant-voltage constant-current charging
Charging time	: Approx. 4 hours

2. AC adapter specifications

Input	: 100-240 V AC, 50/60 Hz
Output	: 5 V DC, 2 A

3. External dimensions & weight

External dimensions	: Approx. 116 x 116 x 74 mm (W x D x H)
Weight	: Approx. 155 g

4. Operating environment

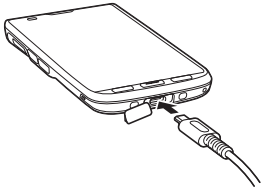
Ambient temp.	: 0-40°C
Ambient humidity	: 5-90% RH (condensation-free)

USB Type-C Cable

The USB Type-C cable can be used to connect the ET-L10 to a computer. It can also be used to supply power to the ET-L10.

Connecting to a computer

1. Connect the USB Type-C cable to the USB Type-C port on the ET-L10.



Precautions for Use

- **Water or other moisture on the ET-L10 and USB Type-C cable power supply/data communication terminal could cause sparking or an electric shock, and soiling on the terminal could block the connection and impair charging functionality. To ensure safety, disconnect the AC adapter and USB cable and then clean the power contacts by wiping them off with a dry cloth or cotton bud.**
- **Never short-circuit the ET-L10 and the USB cable power supply/data communication terminal as this could cause a fault.**

CASIO

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