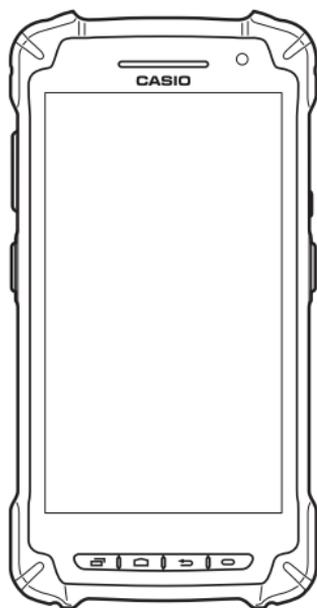


CASIO®**Rugged Smart Device****IT-G400 Series****User's Guide**

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



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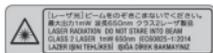
This product uses software licensed on the basis of GNU General Public License (GPL), GNU Lesser General Public License (LGPL) and other licenses. Relevant terms and conditions shall also apply to this software.

For details on licenses, see “Settings” → “About terminal/device” → “Legal information” → “Open source licenses”.

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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 à l'aide de procédures autres que celles spécifiées dans ce Mode d'emploi est dangereuse et doit être évitée.

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.

 **Warning**

Disassembly and Modification



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

Abnormal Conditions



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

 **Warning**

Dust and Moisture



- Though the Smart Device is dust- and waterproof structure, its options including the battery pack are not. Keep loose metal objects and containers filled with liquid away from your Smart Device and the options. Also, never handle the Smart Device 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 lumière laser ni ne dirigez la lumière laser dans les yeux de quelqu'un.

 **Warning**

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



- Keep your Smart Device well away from anyone wearing a pacemaker. Radio waves emitted by the Smart Device can affect the operation of a pacemaker.
- Before the use in aircraft, be sure to consult with cabin crew for interference the Smart Device emits.
- Before the use in medical facility, be sure to consult with the facility management or the manufacture of a specific medical equipment that the Smart Device may interfere with.
- Do not use the Smart Device nearby gas pump or chemical tank or any other places flammable or explosive.

Caution

Foreign Objects



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

Location



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

LCD Screen



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

Low Temperature Burn



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

Volume



- When using the headphones, adjust the volume to a suitable level. High volume can cause damage to your hearing.

LED Light



- Do not aim the LED light at anyone's eyes at a close range. Failure to do so could cause visual impairment or other damages.

Lithium-ion Battery Pack

Danger



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



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

Warning



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



- If the amount of time period the battery pack can serve becomes considerably short even after it has been fully charged for the specified time period, stop using it.
- Should the battery pack start to leak or emit a strange odor, immediately move it away from any flame nearby. Leaking battery fluid is combustible.
- Should fluid from the battery pack accidentally get into your eyes or on the skin, do not rub it. Immediately rinse it off with clean tap water and then consult a physician.

Caution

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

Power Supply / AC Adapter

Warning

-  • Do not use the Smart Device at a voltage other than the specified voltage. Also, do not connect the Smart Device 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 battery chargers and the cradles, be sure to use the respective AC adapters.

Caution

-  • Never pull on the power cord when unplugging it.
- Never touch the plug while your hands are wet.
-  • Be sure to unplug the power cord from the wall outlet before cleaning the battery chargers and the cradles.
- Unplug the power cord from the wall outlet whenever leaving the battery chargers and the cradles unattended for a long period.
- The housing of the AC adapter can become warm during normal use.
-  • 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.
-  • 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.

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 Smart Device, malfunction or repair of the Smart Device or its peripherals, or due to the batteries going dead.
- The Smart Device employs electronic memory to store data, which means that memory contents can be corrupted or deleted if power is interrupted due to the batteries going dead or incorrect battery replacement procedures. Data cannot be recovered once it is lost or corrupted. Be sure to make backup of all important data.

Use Casio genuine battery pack only

Danger



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

Operating Precautions

Your Smart Device 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 Smart Device 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 Smart Device
 - Pressing the screen or keys with excessive force when using in the rain
- **Pens other than the stylus (pen) bundled with this product will not operate correctly with the Smart Device.**
- **Touch panel (screen)**
 - The stylus (pen) and glove cannot be used while the Smart Device is being charged using the AC adapter or cradle.
- **Do not use volatile chemical substances such as thinners, benzene or toiletries to clean the Smart Device.**
When the Smart Device is dirty, wipe it clean with a soft, dry cloth. Rubbing with excessive force could scratch the display.
- **The power-supply terminals and Data Communication terminals should be cleaned 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.**

- **Weld lines**

There are seam-like markings in some locations on the battery pack. 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 battery pack.

- **If the battery pack is removed from the Smart Device without first shutting down or switching to Hot Swap mode, the time may be reset.**

- **Lithium-ion Battery Pack**

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

- Be sure to charge the battery pack before using it if the battery pack is used for the first time or if it has not been used for a long period of time. When charging the battery pack, continue charging until the charge LED lights green (fully charged).
- If the battery pack is repeatedly charged, the life span becomes short. To avoid the repetition of charging the battery pack, be sure that the remaining capacity is low before you start charging.
- Be sure to charge the battery pack in recommended temperature range. The temperature range is dependant on device you use to charge including battery chargers and tablets. (download version). Charging the battery pack in a temperature outside of the recommended range causes deterioration.
- When used at low temperatures, the battery pack has a reduced capacity and will supply power for shorter time. The life span of the battery pack is also shortened.
- Charging the battery pack while the battery pack itself is freeze including inside causes deterioration. Be sure to resume an ordinary room temperature on the battery pack and then leave it unattended for approximately one hour before charging.
- After charging the battery pack, if the performance of the battery pack does not show any recovery, it is a sign of ending the life. Replace it with a new battery pack.
- Avoid the battery pack with a full of the capacity to store for a long period of time. If you need to store it for a long period, be sure that the remaining capacity is 30 to 50 percent and to store in a moderate low temperature. This can reduce deterioration.
- The battery pack gradually deteriorates over time. In particular, storing (or using) the fully charged battery pack at high temperatures tends to accelerate battery pack deterioration.

- **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 Smart Device should be handled so as to avoid impacts.

- **Water or other moisture on the power-supply or data communication terminals could cause sparking or an electric shock, and soiled contacts could block the connection and impair charging functionality.**

- **While the IT-G400 is waterproofed, note the following when using this product:**

- If the IT-G400 is exposed to water droplets, thoroughly wipe off the moisture with a dry cloth.
- Do not use the IT-G400 for long periods in the rain.
- Securely close the battery pack cover and connector covers when using the IT-G400.
- Do not press hard on the screen (touch panel) or keys when using the IT-G400 in the rain.

- **The back of the IT-G400 may become warm during use. This is normal and does not indicate a fault.**

- **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 5 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/

- **<For system administrators> Update the OS to keep the system up to date.**

- Updating the system also applies any security updates.
- CASIO COMPUTER Co., Ltd. will also provide updates to the OS at regular intervals or as deemed necessary by Casio.
- System administrators should also update the OS as appropriate and should run the latest version of the OS.
- Refer to the software manual for information on how to update the OS.
- When updating the OS, check that the battery has sufficient charge remaining.

Regulatory Information

Europe

IT-G400

Options of IT-G400



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.
- Options of IT-G400 are HA-R60IO, HA-R38CHG, HA-R34CHG, AD-S10050B, HA-R20BAT, HA-R21LBAT, HA-R22BC, HA-R24LBC, HA-R81USBC, AC-CORD3-EU, AC-CORD3-UK, HA-R62IO

For Europe models are IT-G400-C21M, IT-G400-C21L, IT-G400-WC21M, IT-G400-WC21L

Hereby, "CASIO COMPUTER CO., LTD." declares that the radio equipment type "IT-G400" is in compliance with Directive 2014/53/EU.

About the Waterproofing/Dustproofing

The IT-G400 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 battery pack cover, or earphone-microphone jack cover, or on the respective contact surfaces. 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 battery pack cover and earphone-microphone jack cover are free from cracks and other damage.
- Close the battery pack cover lock switch firmly until the switch is in the locked position.
- Avoid opening and closing the battery pack cover or earphone-microphone jack cover in locations near water or exposed to sea breezes, and do not open or close them with wet hands.
- Do not drop this product or leave it in locations exposed to temperatures outside the specified range. Doing so could impair its water- or dust-proofing.
- Do not pull on the earphone-microphone jack cover with excessive force. Doing so could cause damage. Such damage may render the product no longer waterproof.

• Other Precautions

- The accessories for this product (battery pack, etc.) and optional products 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 (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.

Important

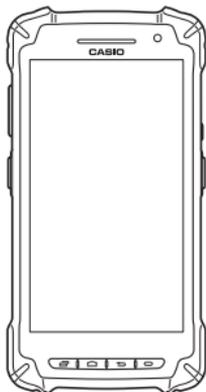
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After Service

- 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.

Accessories and Options

Rugged Smart Device IT-G400 Series



Accessories

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

- Strap
- Screen Protect Sheet
- Stylus (Pen)
- AC Adapter (5V2A)
- 3 AC Adapter Plugs (Type A, BF, C)
- Battery Pack (Standard or High Capacity type according to the Smart Device)
- User's Guide (this manual)
- Warranty (This warranty is valid only in Japan)
- WEEE separate sheet

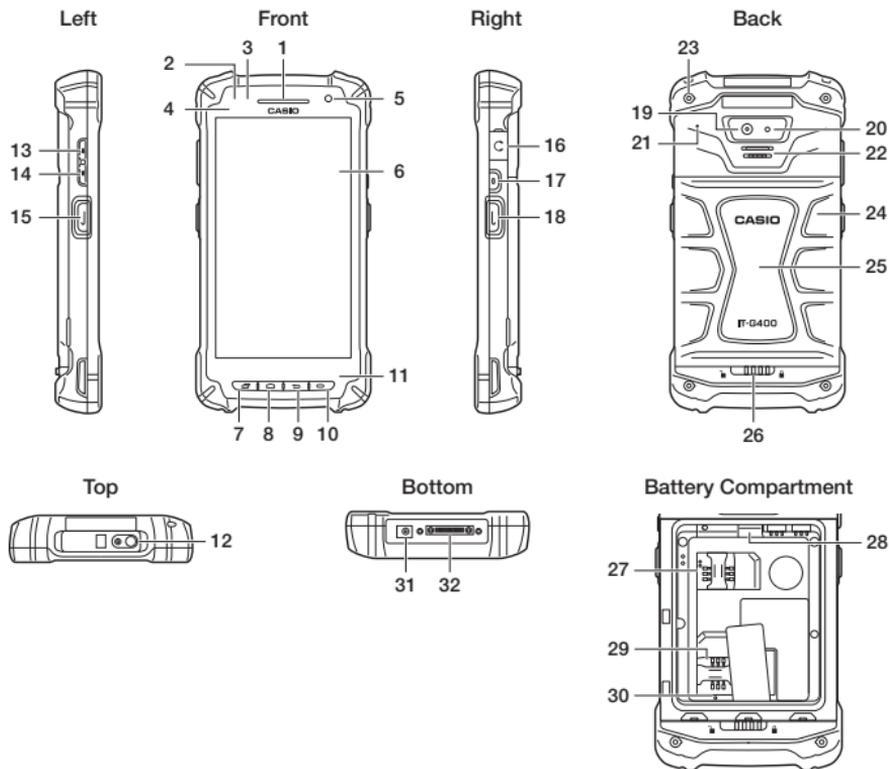
Options

- **USB Cradle HA-P60IO**
Accessories: AC Adapter (5V4A), 3 AC Adapter Plugs (Type A, BF, C), microUSB cable
- **LAN Cradle HA-R62IO**
Accessories: AC Adapter (5V4A), 3 AC Adapter Plugs (Types A, BF, C)
- **Four-cradle Battery Charger HA-R38CHG**
Accessories: AC Adapter (12V5A)
- **Four-bay Battery Charger HA-R34CHG**
Accessories: AC Adapter (12V5A)
- **AC Cord for AC Adapter (12V5A): AC-CORD3 AC-CORD3-EU AC-CORD3-UK AC-CORD3-AU**
- **AC Adapter (5V2A) AD-S10050B**
- **Standard Battery Pack HA-R20BAT**
- **High Capacity Battery Pack HA-R21LBAT**
- **Battery Cover (for Standard Battery Pack) HA-R22BC**
- **Battery Cover (for High Capacity Battery Pack) HA-R24LBC**
- **Screen Protect Sheet HA-R95PS10**
- **USB Cable HA-R81USBC**
- **Hand Belt HA-R93HB**

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 Device (IT-G400)



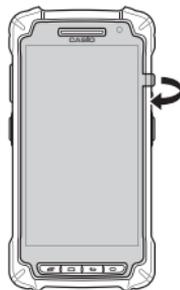
1	Receiver	Receiver for voice call
2	Charging Status LED	Show charging status
3	Notification LED	Show notifications
4	Illuminance/Proximity Sensor	Measure brightness and proximity of object
5	Front Camera	Take picture and movie
6	Screen (Touch Panel)	Display words and operation instructions Input data in IT-G400 by finger or Stylus (Pen)
7	Recent Apps Key	Switch applications
8	Home Key	Go home screen
9	Back Key	Back to previous screen Close dialog box, option menu and notification panel

10	Function Key	Launch program button app Able to set an optional function
11	Microphone	Microphone
12	Barcode Reader	Laser or LED light of 2D imager radiates to read barcode
13	Volume Up Key	Volume up
14	Volume Down Key	Volume down
15	L Trigger Key	Scan barcode Able to set an optional function
16	Headset Jack	Connect the headset
17	Power Key	Power down/power on IT-G400
18	R Trigger Key	Scan barcode Able to set an optional function
19	Camera	Take picture and movie
20	LED Light	Torch around and camera flash
21	Microphone	Microphone
22	Speaker	Output sound like alarm
23	Strap Holes	Attach strap
24	Battery Cover	Cover battery pack
25	NFC Reader	Reading NFC card
26	Battery Cover Lock Switch	Open battery cover by sliding
27	Standard SIM Card Slot (IT-G400-WC21M/ IT-G400-WC21L)	Insert SIM card after removing battery pack
28	microSD Card Slot	Insert microSD card after removing battery pack
29	SAM Card Slot	There is a SAM slot, but it can not be used
30	Reset Switch	Cold reset
31	AC Adapter Jack	Connect the dedicated AC adaptor
32	Power Supply/Data Communication Terminal	Used to connect an optional USB cable or cradle for USB communication and to supply power.

Getting Ready to Use

* In the step 6, be sure to charge the battery pack completely.

1. Confirm that all the items listed on page E-11 are included in the package.
2. Remove the protective film attached to the Smart Device.



3. Attach the supplied screen protect sheet to the Smart Device. (→E-15)
4. Install the supplied battery pack in the Smart Device. (→E-15)
5. Install the AC adapter plug in the supplied AC adapter. (→E-18)
 - * When using an optional product to charge, prepare the optional product accordingly.
6. Charge the battery pack. (→E-19)
7. Turn the power on. (→E-30)
8. Configure the initial setup.
 - * Begin initial setup by setting the language. In this setting, select the language to be used.

Attaching the screen protect sheet

1. Wipe off any dirt from the screen.
2. The screen protect sheet consists of 3 layers as shown in the figure. Hold tape 1, and while you remove the release film (1), attach the screen protect sheet (3) to the Smart Device.

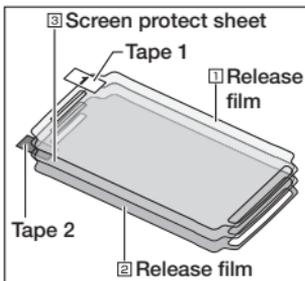
Tip!

Align each part such as keys or receiver with the holes of each part in the screen protect sheet.
When attaching the sheet, take care to avoid air bubbles.

3. Hold tape 2 and remove the release film.

Tip!

Take care not to cover the microphone with the screen protect sheet. If microphone is covered, quality of the voice input will deteriorate.



Installing and Replacing the Battery Pack

Your Smart Device uses two types of battery: a battery pack and a memory backup battery. The battery pack is used to power normal operations and to store data, while the memory backup battery provides the power required to maintain memory contents when the battery pack power is unable to supply power for some reason.

You can choose either battery pack (HA-R20BAT) or large-capacity battery pack (HA-R21LBAT) for operating power.

The backup battery is installed inside of the Smart Device.

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

Battery Pack: Rechargeable battery pack (HA-R20BAT or HA-R21LBAT) for normal operations and data storage

Backup Battery: Built-in battery for memory backup

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

You can charge the battery pack using the AC adapter, four-bay battery charger, four-cradle battery charger, USB cradle, or LAN cradle. See the relevant sections in this guide for the respective options about how to use.

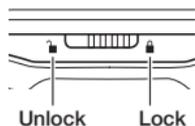
Important!

Always keep backup of all important data!

- The battery pack powers normal operation and also provides power required to maintain memory contents, while the backup battery provides backup power to maintain memory contents. Because of this, you should not remove the battery pack if the backup battery is dead. Removing the battery pack while the backup battery is dead causes data in the memory to be corrupted or lost. Note that once data is lost it cannot be recovered. Always keep backup of all important data.
- The charge of a battery pack when you purchase it may be depleted due to testing at the factory or natural discharge during shipment and storage. Be sure to charge the battery pack before you use it.
- The life of a battery pack is limited, and charging a battery pack causes it to gradually lose its ability to maintain the charge. If your battery pack seems to require charging very frequently, it probably means it is time to purchase a new one.
- If a battery pack is used past the end of its service life, it may swell up in size. In such a case, replace the battery pack with a new one.
- It takes approximately 4 hours with the main battery pack installed in the terminal for the backup battery to be charged fully.
- If a battery pack is installed in the Smart Device, it will still work when the battery cover is open. However, the battery cover should be closed when using the Smart Device in case the battery pack unexpectedly drops out and causes data loss.

Installation

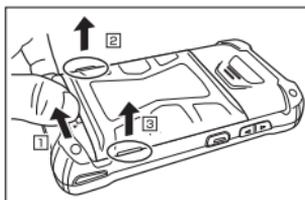
1. Turn the Smart Device over.



2. Slide the battery cover lock switch to the “Unlock” position (1) and remove the battery pack cover.

Tip!

After raising the protruding part (2) on the battery cover, raise the protruding part (3) in the same. Make sure the battery cover is perfectly closed in order to maintain the waterproof performance.



3. Install the battery pack. Make sure the battery pack is facing the correct direction.

Tip!

Make sure to install the battery pack so that the removal tape extends above the battery.

Slide the battery pack evenly along both sides of the Smart Device case until the battery pack terminals are aligned with the Smart Device power contacts.

Installing the battery pack incorrectly may distort the battery terminal springs on the Smart Device.

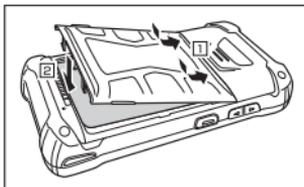


- Return the battery cover to its original position as shown in the figure.

Tip!

Confirm that the battery cover lock switch has returned to the “Lock” position .

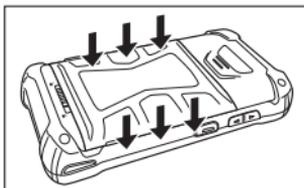
Return the battery cover to its original position without folding the removal tape over.



- Push the battery cover to make sure it is properly closed.

Tip!

Even when the battery cover lock switch is in the “Lock” position, if there is a gap between the battery cover and the Smart Device, the cover is not perfectly closed. To maintain the waterproof performance, push the parts indicated by arrows in the figure to remove any gaps.

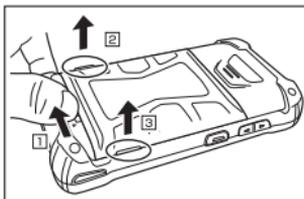
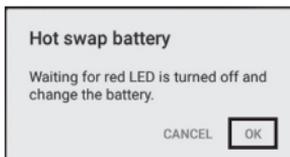


Precautions for Use

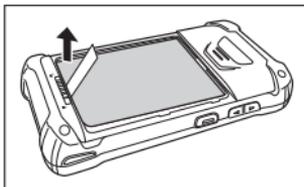
- Do not use any battery packs other than the specified one.

Replacement

- Turn the screen on.
- Hold down the Power key until the Power menu is displayed.
- Tap “Hot swap” as shown in the figure.
- Tap “OK” as shown in the figure and the Smart Device will switch to the Hot Swap mode. This causes the charging status LED to turn on red, and once switching is completed, the charging status LED turns off.
- Turn the Smart Device over, slide the battery cover lock switch to the “Unlock” position and remove the battery cover.



6. Remove the battery pack as shown in the figure.
7. Install the replacement battery pack following steps 3 to 5 of the battery pack installation procedure.



Precautions for Use

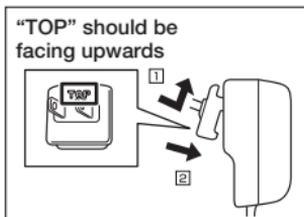
- Remove the battery pack by pulling up the removal tape. Do not pull up with excessive force as this may result in damage.
- In the Hot Swap mode, even if the battery pack is removed, your work state is saved up to 4 minutes with the memory (RAM) backup function. The memory (RAM) backup time may decrease depending on the backup battery charging level.
- In the Hot Swap mode, the Smart Device will not respond even if you press the Power key. To exit Hot Swap mode, open the battery cover and then close it again.
- In case of replacing the battery pack without selecting the Hot Swap mode, you cannot perform normal operations for a while.
- After replacing the battery pack, the message “Check the battery cover!!!” is displayed. This message is displayed regardless of whether the battery cover has been completely closed or not.
- Do not replace the SIM card or microSD card while in Hot Swap mode. Shut down the Smart Device before replacing the SIM card or microSD card.

Installing and Removing the AC Adapter

You must install the adequate plug in the AC adapter for the Smart Device according to the region where the Smart Device is used.

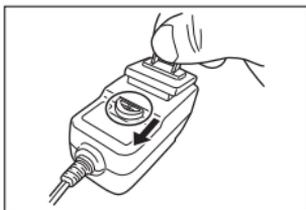
Installation

1. Insert the protruding part of the AC adapter plug into the recessed part in the AC adapter top (1) and push until it clicks into place (2).



Removal

1. Pull the AC adapter plug release lever in the direction of the arrow in the figure.



Precautions for Use

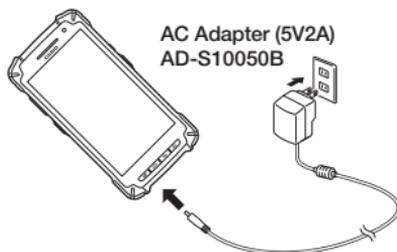
- When pulling the release lever, the AC adapter plug can jump out. To prevent AC adapter plug from jumping out when pulling the release lever, hold it with a finger, etc.
- Do not insert the plug only into the power outlet.

Charging the Battery Pack

You can charge the battery pack installed in the IT-G400 using the AC adapter supplied for the Smart Device, or the optional USB cradle, LAN cradle or four-cradle battery charger. Check charging status LED to confirm IT-G400 charging status.

You can also use the USB cradle, LAN cradle, or four-bay battery charger to charge the battery pack.

AC Adapter (Accessory)



IT-G400 Charging Status LED Display

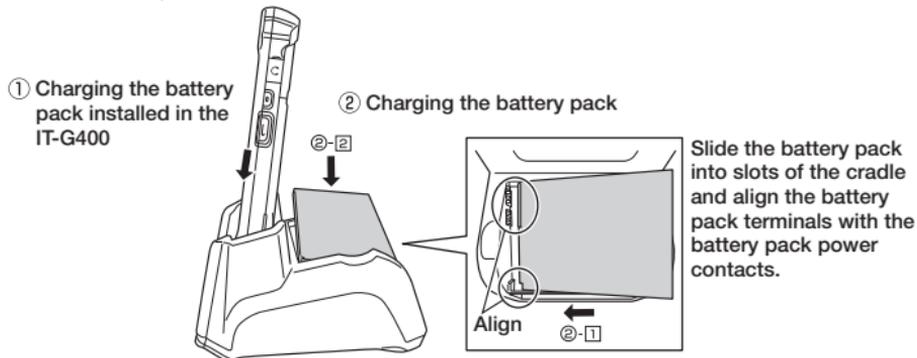
Charging status LED	Charging status	Remarks
Red	Charging	
Green	Charging complete	
Flashing red	Charging error <ul style="list-style-type: none">• Outside the charging temperature range (0-50°C). (Charging begins once the battery pack returns to the charging temperature range)	If this error occurs, leave the battery pack at room temperature for 1 hour and charge the battery pack after it returns to room temperature.
Flashing alternately red/green	Battery pack detection error <ul style="list-style-type: none">• Battery pack fault• Battery pack installed incorrectly• Battery pack not installed	

Precautions for Use

Depending on the Smart Device condition, it may take some time until the charging status LED turns on red.

- In high- or low-temperature environments, charging may be restricted to protect the battery pack. At such temperatures, the level of battery charge may not reach 100% even when the charging status LED is green and charging is completed.

USB Cradle, LAN Cradle



Cradle charging status LED display

Red: Charging

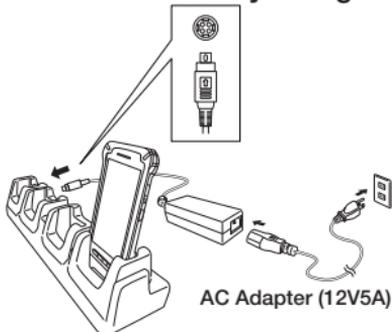
Green: Charging complete

Red/green alternate flashing: Standby because the battery pack is faulty, is installed incorrectly or is outside the charging temperature range (Charging begins when temperature returns to the charging temperature range)

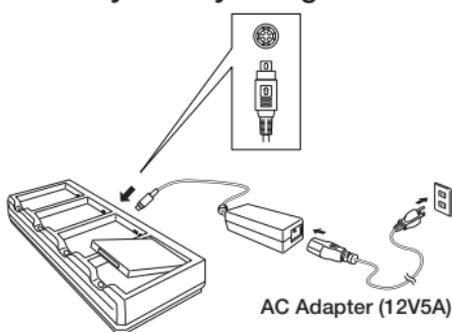
Precautions for Use

- Take care not to trap objects such as the strap in the cradle.
- The power/data communication terminal and the battery pack power contacts should be cleaned periodically using an implement such as a dry cotton bud. Soiling or dust buildup could cause connection problems.

Four-cradle Battery Charger



Four-bay Battery Charger



Charging status LED display for the four-bay battery charger

Red: Charging

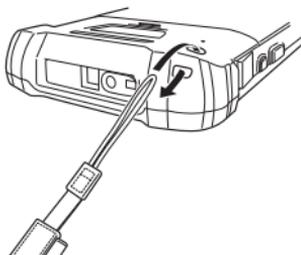
Green: Charging complete

Red/green alternate flashing: Standby because the battery pack is faulty, is installed incorrectly or is outside the charging temperature range (Charging begins when temperature returns to the charging temperature range)

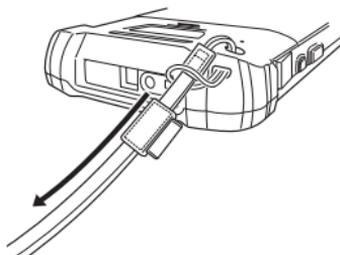
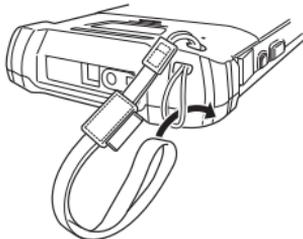
Attaching the Strap

The strap can be used to prevent the Smart Device being dropped when it is carried around. Use the procedure below to attach the strap.

1. Thread the thin cord loop on the strap through the strap hole in the back of the Smart Device.



2. Thread the other end of the strap (the end that goes over your wrist) through the thin cord loop.



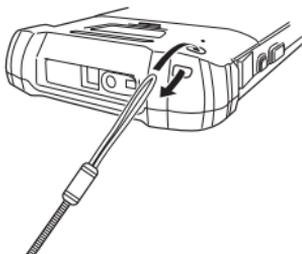
Precautions for Use

- Do not hold the strap and swing the Smart Device around.

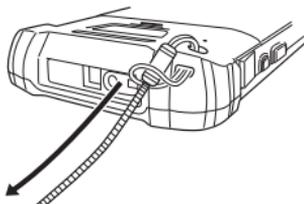
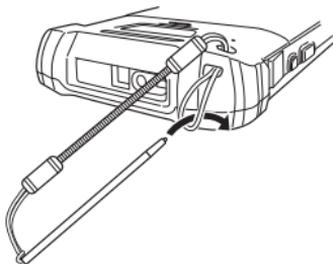
Attaching the Stylus (Pen)

Use the procedure below to attach the stylus (pen).

1. Thread the thin cord loop on the stylus (pen) through the strap hole in the back of the Smart Device.



2. Pass the stylus (pen) tip-first through the thin cord loop.



Using the C-MOS Imager

1. Turn on the Smart Device, position its C-MOS Imager reader port near the bar code or 2D code, and then press the trigger key.



2. The LED lights and the imager reads the bar code or 2D code.

If reading is completed successfully, the notification LED lights blue and the read tone sounds.

Important!

- If you have problem not properly reading a code, change the angle and/or the distance between the code and the Smart Device 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 imager's reader port may prevent successful reading. Should the reader port become dirty, wipe it clean with a soft and dry cloth.

Using a SIM Card

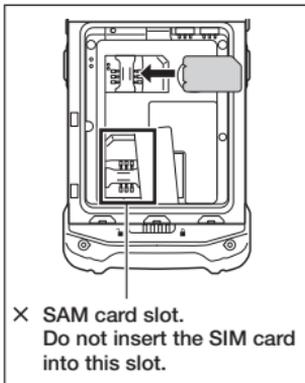
The Smart Device supports standard SIM cards.

To use WAN functions, a SIM card must be installed.

The SIM card slot is located in the battery pack compartment, so you must remove the battery pack before installing or removing a SIM card.

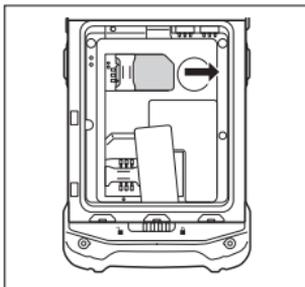
Installation

1. Turn the Smart Device off (shutdown).
2. Remove the battery pack.
(Steps 5 and 6 in the battery pack replacement procedure on page E-17)
3. Insert the SIM card into the card slot, as shown in the figure.
4. Install the battery pack.
(Steps 3-5 in the battery pack replacement procedure on page E-16)



Removal

1. Turn the Smart Device off (shutdown).
2. Remove the battery pack.
(Steps 5 and 6 in the battery pack replacement procedure on page E-17)
3. Pull the SIM card out of the card slot, as shown in the figure.
4. Install the battery pack.
(Steps 3-5 in the battery pack replacement procedure on page E-16)



Precautions for Use

- When installing a SIM card, check the orientation of the card and ensure that you install it correctly. Using excessive force when installing or removing a SIM card could damage the card.
- Touching the IC area when installing a SIM card could result in damage to the card due to soiling or an electrostatic charge.

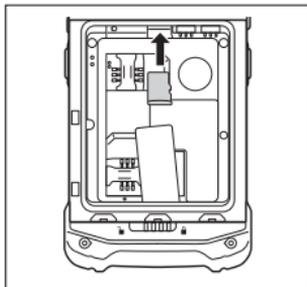
Using a microSD Card

This Smart Device supports micro SD cards.

The microSD card slot is located in the battery pack compartment, so you must remove the battery pack before installing or removing a microSD card.

Installation

1. Turn the Smart Device off (shutdown).
2. Remove the battery pack.
(Steps 5 and 6 in the battery pack replacement procedure on page E-17)
3. Push the microSD card into the card slot until it is fully inserted, as shown in the figure.
4. Install the battery pack.
(Steps 3-5 in the battery pack replacement procedure on page E-16)

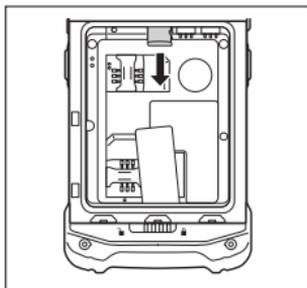


Precautions for Use

- The front and back of the card are different, so the card must be oriented correctly when inserted into the slot. Inserting the card incorrectly could damage the card and/or the slot. Take care when inserting cards.

Removal

1. Turn the Smart Device off (shutdown).
2. Remove the battery pack.
(Steps 5 and 6 in the battery pack replacement procedure on page E-17)
3. Pull the microSD card out of the card slot, as shown in the figure.
4. Install the battery pack.
(Steps 3-5 in the battery pack replacement procedure on page E-16)



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 on IT-G400.

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 Smart Device (near the center of the battery cover).



Important!

- If there are problems reading the card, check that the battery cover is completely closed and try sliding the card back and forth or left and right.
- 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 Smart Device 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 IT-G400 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 IT-G400.

Performing Communications

Bluetooth® Communication

Bluetooth® interface can also be used to transfer data between two Smart Devices. With Bluetooth® the two Smart Devices 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 Smart Devices face each other within five meters. Surroundings (obstacles) between the Smart Devices may cause a shorter distance.
- Make sure there is at least two meters between the Smart Device 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 Smart Devices 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 Smart Device 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 Smart Device and a WLAN device, turn off the power of either the Smart Device or the WLAN device.
- If the Smart Device's wireless LAN and Bluetooth® communication are used at the same time, ambient radio signals may make communication impossible.

WAN Communication

A contract with a communications provider is required in order to use the WAN communications functions built into the Smart Device. The available WAN communications functions will be determined by the contract between the customer and his or her communications provider. Consult your communications provider for details of the network services.

GPS

When you use the Smart Device for the first time or after an extended period of no use, it may take a long time before the Smart Device determines its positioning. In such a case, operate the GPS mode where there are no obstacles in the surroundings and wait for at least 15 minutes or longer.

The GPS module integrated in the Smart Device uses signals emitted by the satellites operated by the government of the United States. The accuracy of positioning information you obtain on the Smart Device may be affected by the condition of these satellites.

The GPS module may not be able to receive the signals in locations such as inside a building or in a tunnel. If you are installing the device in your car, determine the installation location after making sure that it can receive the signals.

Turning the Power On/Off and Sleep

Turning the Power On

1. Hold down the Power key until the Smart Device vibrates.
 - The startup screen is displayed.

Precautions for Use

- Be sure to completely charge the battery pack before turning the power on for the first time after the purchase.
- If the Smart Device does not start even after power is turned on, remaining power of the battery pack may be low. Completely charge the battery pack and then turn the power on again.
- When the Smart Device is turned off, pressing the volume Up and Down keys while holding down the Power key disables Smart Device startup. In this situation, hold down the Power key until the Smart Device vibrates (around 12 seconds).

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 Smart Device remains running.
 - Operating state is maintained. Press the Power key and you will be able to use the Smart Device immediately.

Rebooting or Resetting the Smart Device

If the Smart Device 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

3. Reset

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 Smart Device vibrates (approx. 12 seconds).

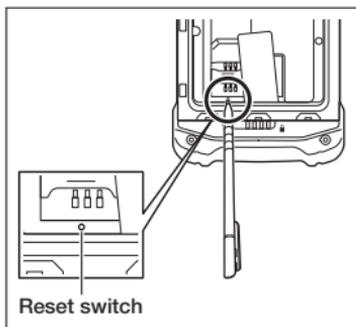
Reset

1. Open the battery cover and remove the battery pack.
2. Hold down the Reset switch. (Approx. 2 seconds)

Tip!

Use the stylus (pen) supplied with the Smart Device to hold down the Reset switch.

3. Re-install the battery pack and close the battery cover.
4. Turn the power on.



IT-G400 Specifications

	C21M	C21L	WC21M	WC21L	Memo
CPU	ARM Cortex-A53 microprocessor (Quad core 1.2 GHz)				
OS	Android 6.0.1				
Memory	RAM: 2 GB ROM: 16 GB				
Display	5.0inches 720 (horizontal) x 1280 (vertical) HD				
2D imager *1	CMOS imager				
Camera	Rear: 8M pixels Auto Focus Front: 2M pixels				
Microphone	Voice sound input				
Receiver	For voice call at phone network and VoIP				
WLAN *2	IEEE 802.11a/b/g/n				
Bluetooth *3	Specification Ver.4.1+EDR/LE				
WWAN *4	-		LTE/W-CDMA/GSM		
GPS *5	-		GPS, GLONASS, BeiDou		
NFC *6	Supported Cards : ISO1443 TypeA, ISO1443 TypeB, ISO15693, Felica				
microSD	Compatible with SDHC				
USB	USB 2.0 OTG				
SIM	ISO7816 IC Card standard Mini SIM Card (25 mm x 15 mm x 0.76)				
Earphone and microphone Jack	CTIA standard				
Main Battery	Lithium-ion battery pack (Standard)	Lithium-ion battery pack (Large)	Lithium-ion battery pack (Standard)	Lithium-ion battery pack (Large)	
Sub battery	Lithium battery (rechargeable)				
Operating period *7	Standard Battery: 12 hours Large Battery: 24 hours				At room temperature New battery pack
Operating temperature	-20 °C ~ 50 °C *8				
Operating Humidity	10% ~ 90%RH				
Drop durability	1.5m *9				
Dust / water-resistance	IP67 level				

	C21M	C21L	WC21M	WC21L	Memo
External dimensions	Approx. 80 mm × 155 mm × 19 mm (excluding protruding parts)	Approx. 80 mm × 155 mm × 23 mm (excluding protruding parts)	Approx. 80 mm × 155 mm × 19 mm (excluding protruding parts)	Approx. 80 mm × 155 mm × 23 mm (excluding protruding parts)	
Weight	Approx. 285 g	Approx. 325 g	Approx. 285 g	Approx. 325 g	
Vibrator	notification of scanner				
Sensors	Proximity sensor / Light Ambient sensor / Acceleration sensor / Gyroscope-sensor				
RTC	Maximum monthly rate : 2min10sec (Use main battery) Maximum monthly rate : 8min38sec (Use sub battery only)				

*1

2D imager Specifications

Item		Specification	Memo
2D imager	Sensor	CMOS, 832 x 640, monochrome	
	Aimer	laser ($\lambda = 650 \text{ nm}$), < 1 mW < Class 2 Laser	
	Scan Angle	0 °	
	Minimum Resolution	1D: 0.127 mm 2D Stacked: 0.168 mm 2D Matrix: 0.191 mm	
	PCS	≥ 0.45	
	Depth of Field	1D: 50 mm ~ 400 mm 2D Stacked: 50 mm ~ 230 mm 2D Matrix: 70 mm ~ 300 mm	
	Field of View	Max 43 mm (Depth of Field 50 mm) Max 277 mm (Depth of Field 400 mm)	
	Focal Distance	5.0 inch	
	Ambient Light	Sunlight, $\leq 50,000\text{Lux}$	
	Readable Symbologies (1D)	UPC-A/UPC-E/EAN8 (JAN8)/EAN13 (JAN13)/ Codabar (NW-7)/Code39/Interleaved2of5 (ITF)/MSI/ ISBT/Code93/Code128 (GS1-128 (EAN128))/ GS1 DataBarOmnidirectional (RSS-14)/ GS1 DataBarLimited (RSS Limited)/ GS1 DataBar Expanded (RSS Expanded)/ GS1 DataBar Truncated / Code32	
Readable Symbologies (2D Stacked)	PDF417/Micro PDF/Composite/Codablock F/ GS1 DataBar Stacked Omnidirectional (RSS-14 Stacked)/ GS1 DataBar Expanded Stacked (RSS Expanded Stacked)/ GS1 DataBar Stacked (RSS-14 Stacked)		
Readable Symbologies (2D Matrix)	Aztec/DataMatrix/Maxicode/QR Code/Micro QR/HanXin		

*2

WLAN Specifications

Item		Specification	Memo
WLAN 802.11a/b/ g/n	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: 54 Mbps (maximum) 802.11b: 11 Mbps (maximum) 802.11n HT20 (2.4&5 GHz): 72 Mbps (maximum)	
	Communication Distance	Communication Distance 802.11b/g/n: Indoor 50m, Outdoor 150 m (n: 2.4 GHz) 802.11a/n: Indoor 30m, Outdoor 150 m (n: 5 GHz)	It can change due to surrounding environment

*3

Bluetooth Specifications

Item		Specification	Memo
Bluetooth	Frequency Range	2402 MHz – 2480 MHz	
	Communication Distance	about 5m	It can change due to surrounding environment

*4

WWAN Specifications

Item		Specification	Memo
LTE	Communication	Data Packet	
	Baud rate	Downlink (150 Mbps (maximum)) Uplink (50 Mbps (maximum))	
	Frequency range Band	FDD 1 (1920-1980 MHz/2110-2170 MHz) FDD 2 (1850-1910 MHz/1930-1990 MHz) FDD 3 (1710-1785 MHz/1805-1880 MHz) FDD 4 (1710-1755 MHz/2110-2155 MHz) FDD 5 (824-849 MHz/869-894 MHz) FDD 7 (2500-2570 MHz/2620-2690 MHz) FDD 8 (880-915 MHz/925-960 MHz) FDD 17 (704-716 MHz/734-746 MHz) FDD 20 (832-862 MHz/791-821 MHz) TDD 40 (2300-2400 MHz/2300-2400 MHz) TDD 41 (2496-2690 MHz/2496-2690 MHz)	

Item		Specification	Memo
W-CDMA	Communication	Audio, Data Packet	
	Baud rate	Downlink (42 Mbps (maximum)) Uplink (11 Mbps (maximum))	
	Protocol	UMTS/HSDPA/HSUPA	
	Frequency range Band	BAND 1 (1920-1980 MHz/2110-2170 MHz) BAND 2 (1850-1910 MHz/1930-1990 MHz) BAND 5 (824-849 MHz/869-894 MHz) BAND 6 (830 - 840 MHz/875 - 885 MHz) BAND 8 (880-915 MHz/925-960 MHz) BAND 19 (830-845 MHz/875-890 MHz)	
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 Specifications

Item		Specification	Memo
GPS	WAN and GNSS modes	Simultaneous-GNSS (WAN+GNSS at the same time) Standalone-GNSS (without WAN) A-GPS	
	Protocol	NMEA	
	Sensitivity	Acquisition sensitivity: -145 dBm Tracking sensitivity: -158 dBm	

*6

NFC Specifications

Item		Specification	Memo
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), Power saving setting after laser scanning (1sec)

*8

- Camera Flash is unavailable in $-20\text{ }^{\circ}\text{C} \sim -11\text{ }^{\circ}\text{C}$.

- Battery pack charge operation: $0 \sim 50\text{ }^{\circ}\text{C}$

For the temperature of $0 \sim 10\text{ }^{\circ}\text{C}$ and $40 \sim 50\text{ }^{\circ}\text{C}$, in order to protect battery cell, charge control changes. Therefore in these temperature environment, battery indicator might not become 100% after the charge ends and charge status LED turns green. Charging stops if the battery pack's internal temperature is $0\text{ }^{\circ}\text{C}$ or below or $50\text{ }^{\circ}\text{C}$ or above.

*9

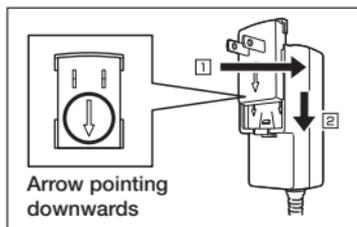
The drop durability height is a measured value resulting from actual testing. It does not necessarily guarantee the product from damage

Installing and Removing the AC Adapter for the USB and LAN Cradles

The AC adapter for the USB and LAN cradles must be fitted with a suitable power plug for the region where the Smart Device will be used.

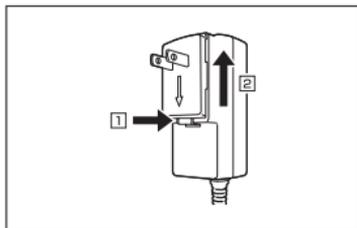
Installation

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).



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).



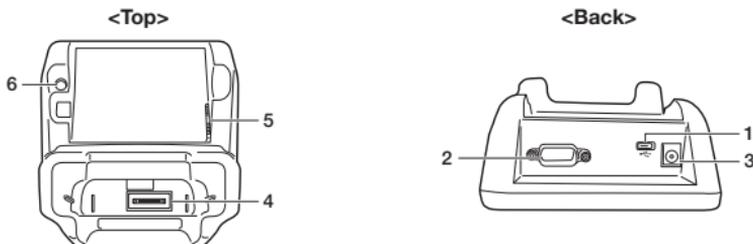
Precautions for Use

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

USB Cradle (HA-R60IO)

The USB cradle can be used to connect the IT-G400 to devices such as a computer or USB device. It can also be used to supply power to the IT-G400 and to charge the battery pack.

Part Names and Operation

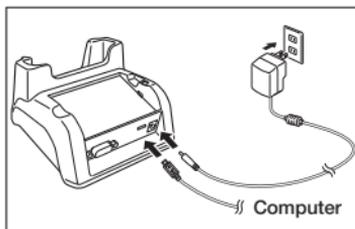


1	USB port	Used to connect to a computer or USB device.
2	Serial port	The cradle features a serial port, but it cannot be used.
3	AC adapter jack	Used to connect an AC adapter as a power supply.
4	Power supply/ data communication terminal	Used to supply power to the IT-G400 or for data communication.
5	Battery pack power contacts	Used to charge the battery pack.
6	Battery pack charging status LED	Shows the charging status. Red: Charging Green: Charging complete Flashing alternately red/green: Battery pack fault or outside charging temperature range

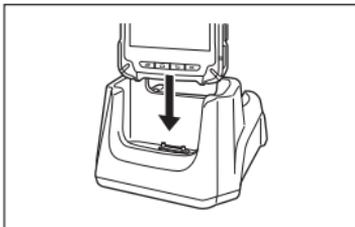
Installing and Connecting the Power Supply

Use the supplied AC adapter as the power supply for the USB cradle.

1. Plug the AC adapter into the AC adapter jack on the back of the USB cradle.
2. Plug the AC adapter into a mains power outlet.
3. When connecting to a computer, plug the micro USB cable provided into the USB port. When connecting to a USB device, plug the USB host cable into the USB port.

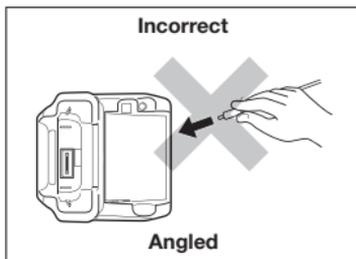
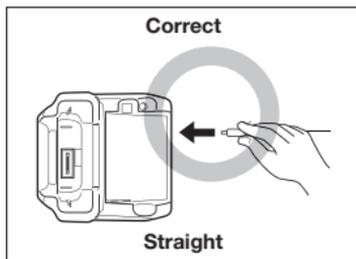


4. Align the terminals on the base of the IT-G400 with the power contacts in the USB cradle and then set the IT-G400 in the cradle.



Precautions for Use

- Even if the battery in the IT-G400 is already fully charged, charging will begin when you set the IT-G400 in the USB cradle. It may take several minutes for the fully charged status to be indicated.
- In high- or low-temperature environments, charging may be restricted to protect the battery pack. At such temperatures, the level of battery charge may not reach 100% even when the charging status LED is green and charging is completed.
- When connecting a micro USB cable, push the plug firmly all the way into the socket.
- When connecting or disconnecting a micro USB cable, take care to keep the plug straight relative to the USB port. Avoid pushing or pulling the micro USB cable at an angle and do not pull on or twist the cord when the micro USB cable is connected. Doing so could distort the micro USB cable connectors.



- When the IT-G400 is connected to a computer using the USB cradle, the USB cradle must always be used with the bundled AC adapter connected. Failing to connect the AC adapter may result in unstable USB communication.
- 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 and IT-G400, do so by gripping the connector and not by pulling on the cord.

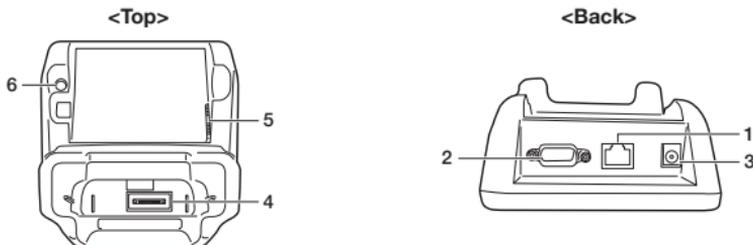
USB Cradle (HA-R60IO) Specifications

1. USB specifications
 - Standard: USB 2.0 High Speed
 - Transmission speed: 480 Mbps (max.)
2. Charging specifications
 - Charging method: Constant-voltage constant-current charging
 - Charging time: Approx. 4 hours (standard battery pack)
Approx. 8 hours (high-capacity battery pack)
3. AC adapter specifications
 - Standard: ADS-25SGP-06
 - Input: 100-240 V AC, 50/60 Hz, 0.7 A
 - Output: 5 V DC, 4 A
4. Dimensions, weight
 - Dimensions: Approx. 136 × 116 × 81 mm (W x D x H)
 - Weight: Approx 315 g
5. Operating environment
 - Operating temperature: 0°C to 40°C
 - Operating humidity: 10-90% RH (condensation-free)

LAN Cradle (HA-R62IO)

The LAN Cradle allows a LAN interface to be used to transfer data between the IT-G400 and a personal computer. It can also be used to supply power to the IT-G400 and to charge the battery pack.

Part Names and Operation

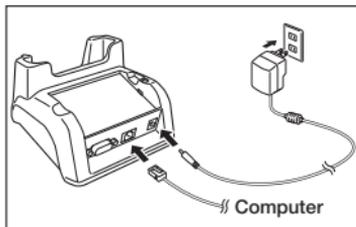


1	LAN port	Used to connect and transfer data to a personal computer or hub via a LAN cable for data transfer.
2	Serial port	The cradle features a serial port, but it cannot be used.
3	AC adapter jack	Used to connect an AC adapter as a power supply.
4	Power supply/ data communication terminal	Used to supply power to the IT-G400 or for data communication.
5	Battery pack power contacts	Used to charge the battery pack.
6	Battery pack charging status LED	Shows the charging status. Red: Charging Green: Charging complete Flashing alternately red/green: Battery pack fault or outside charging temperature range

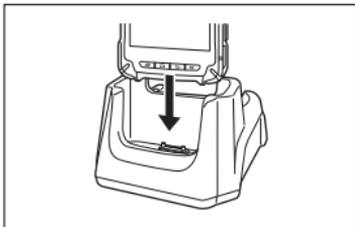
Installing and Connecting the Power Supply

Use the supplied AC adapter as the power supply for the LAN cradle.

1. Plug the AC adapter into the AC adapter jack on the back of the LAN cradle.
2. Plug the AC adapter into a mains power outlet.
3. When using a LAN, plug the LAN cable into the LAN port and then connect the cable to the computer or to a hub.



-
4. Align the terminals on the base of the IT-G400 with the power contacts in the LAN cradle and then set the IT-G400 in the cradle.



Precautions for Use

- Even if the battery in the IT-G400 is already fully charged, charging will begin when you set the IT-G400 in the LAN cradle. It may take several minutes for the fully charged status to be indicated.
- In high- or low-temperature environments, charging may be restricted to protect the battery pack. 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 and IT-G400, do so by gripping the connector and not by pulling on the cord.

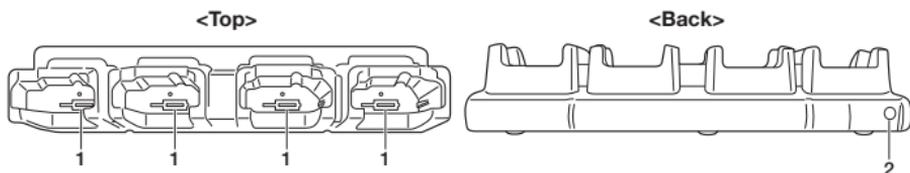
LAN Cradle (HA-R62IO) Specifications

1. LAN specifications
 - Communications method: IEEE 802.3-compliant
 - Media type: 10base-T/100base-TX auto switched
2. Charging specifications
 - Charging method: Constant-voltage constant-current charging
 - Charging time: Approx. 4 hours (standard battery pack)
Approx. 8 hours (high-capacity battery pack)
3. AC adapter specifications
 - Standard: ADS-25SGP-06
 - Input: 100-240 V AC, 50/60 Hz, 0.7 A
 - Output: 5 V DC, 4 A
4. Dimensions, weight
 - Dimensions: Approx. 136 × 116 × 81 mm (W x D x H)
 - Weight: Approx 330 g
5. Operating environment
 - Operating temperature: 0°C to 40°C
 - Operating humidity: 10-90% RH (condensation-free)

Four-cradle Battery Charger (HA-R38CHG)

The Four-cradle Battery Charger enables you to charge four IT-G400 terminals at the same time.

Part Names and Operation

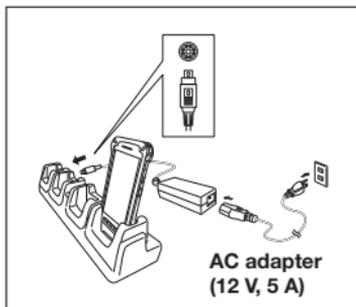


1	Power contacts	Used to supply power to the IT-G400.
2	AC adapter jack	Used to connect an AC adapter as a power supply.

Installing and Connecting the Power Supply

Use the dedicated AC adapter as the power supply for the Four-cradle Battery Charger.

1. Plug the AC adapter connector into the AC adapter jack on the Four-cradle Battery Charger.
2. Plug the optional AC cable plug into a mains power outlet.
3. Align the terminals on the base of the IT-G400 with the power contacts in the Four-cradle Battery Charger and then set the IT-G400 unit(s) in the Four-cradle Battery Charger.



Precautions for Use

- Even if the battery in the IT-G400 is already fully charged, charging will begin when you set the IT-G400 in the Four-cradle Battery Charger. It may take several minutes for the fully charged status to be indicated.
- 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.
- Do not disconnect the AC adapter while an IT-G400 is still set in the charger.
- When disconnecting the AC adapter from the mains power outlet and IT-G400, do so by gripping the connector and not by pulling on the cord.

Four-cradle Battery Charger (HA-R38CHG) Specifications

1. Charging specifications

Charging method:	Constant-voltage constant-current charging
Charging time:	Approx. 4 hours (standard battery pack) Approx. 8 hours (high-capacity battery pack)

2. AC adapter specifications

Standard:	CGSW-1205000
Input:	100-240 V AC, 50/60 Hz, 1.5A
Output:	12 V DC, 5 A

3. Dimensions, weight

Dimensions:	Approx. 450 × 100 × 90 mm (W x D x H)
Weight:	Approx 800 g

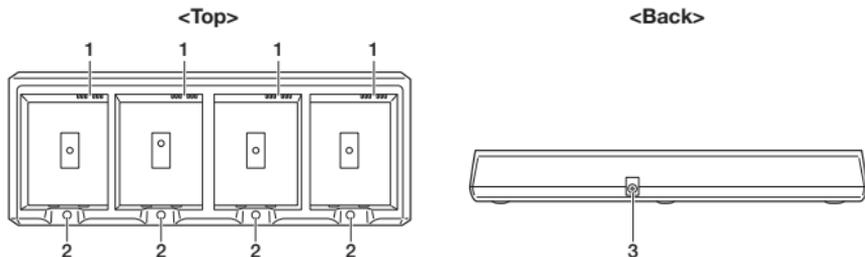
4. Operating environment

Operating temperature:	0°C to 40°C
Operating humidity:	10-90% RH (condensation-free)

Four-bay Battery Charger (HA-R34CHG)

The Four-bay Battery Charger enables you to charge four battery packs at the same time.

Part Names and Operation

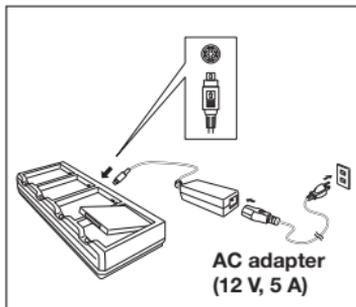


1	Charging contacts	Used to charge the battery pack.
2	Charging status LED	Shows the charging status. Red: Charging Green: Charging complete Flashing alternately red/green: Battery pack fault or outside charging temperature range
3	AC adapter jack	Used to connect an AC adapter as a power supply.

Installing and Connecting the Power Supply

Use the dedicated AC adapter as the power supply for the Four-bay Battery Charger.

1. Plug the AC adapter connector into the AC adapter jack on the Four-bay Battery Charger.
2. Plug the optional AC cable plug into a mains power outlet.
3. Install the battery pack(s) in the Four-bay Battery Charger, taking care that the battery pack terminals are oriented correctly.



Charging Status LED Display

Red: Charging

Green: Charging complete

Flashing alternately red/green: Battery pack fault or outside charging temperature range

Precautions for Use

- Even if the battery packs are already fully charged, charging will begin when you set the battery packs in the Four-bay Battery Charger. It may take several minutes for the fully charged status to be indicated.
- Water or other moisture on the charging terminals could cause sparking or an electric shock, and soiled terminals 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.
- The battery packs may become warm during charging. This is normal and does not indicate a fault.
- Do not cover or place objects on top of the battery charger during charging.
- When disconnecting the AC adapter from the mains power outlet and IT-G400, do so by gripping the connector and not by pulling on the cord.

Four-bay Battery Charger (HA-R34CHG) Specifications

1. Charging specifications
 - Charging method: Constant-voltage constant-current charging
 - Charging time: Approx. 4 hours (standard battery pack)
Approx. 8 hours (high-capacity battery pack)
2. AC adapter specifications
 - Standard: CGSW-1205000
 - Input: 100-240 V AC, 50/60 Hz, 1.5A
 - Output: 12 V DC, 5 A
3. Dimensions, weight
 - Dimensions: Approx. 256 × 105 × 37 mm (W x D x H)
 - Weight: Approx 435 g
4. Operating environment
 - Operating temperature: 0°C to 40°C
 - Operating humidity: 20-90% RH (condensation-free)

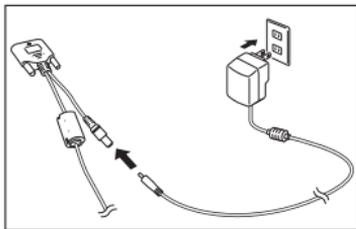
USB Cable (HA-R81USBC)

The USB cable can be used to connect the IT-G400 to a computer. It can also be used to supply power to the IT-G400.

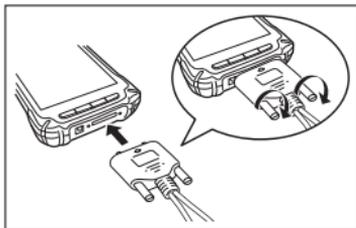
Installing and Connecting the Power Supply

To use the USB cable, use the AC adapter supplied with the IT-G400.

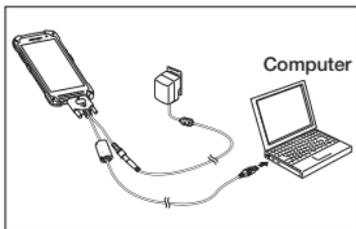
1. Plug the AC adapter into the AC adapter jack on the USB cable.
2. Plug the AC adapter into a mains power outlet.



3. Align the terminals on the base of the IT-G400 with the USB cable terminals and then connect the USB cable to the IT-G400.



4. When connecting to a computer, connect via the USB port.

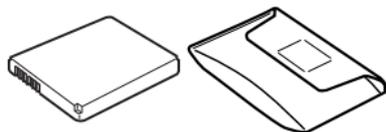


Precautions for Use

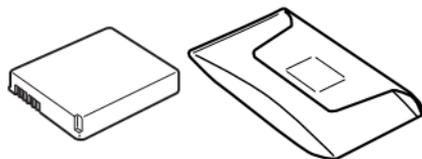
- The USB cable can only be connected one way. Do not attempt to plug the USB cable in the wrong way by using excessive force.
- Water or other moisture on the IT-G400 and USB cable power supply/data communication terminal could cause sparking or an electric shock, and soiling on the terminal could block 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 IT-G400 and the USB cable power supply/data communication terminal as this could cause a fault.
- When connecting the USB cable, always ensure that the dedicated AC adapter for the IT-G400 (AD-S10050B) is also connected to the USB cable. Failing to connect the AC adapter may result in unstable USB communication.

Using Rechargeable Battery Packs

HA-R20BAT



HA-R21LBAT



You can choose between two battery packs with different capacities for the Smart Device, depending on how long it will be used and the operating environment.

Important!

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

Battery Pack Specifications

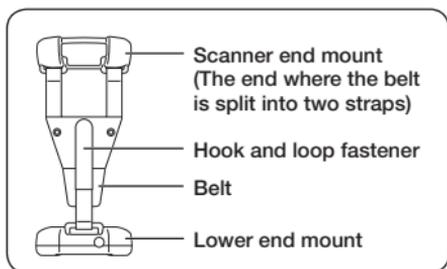
Model:	HA-R20BAT
Rated Capacity:	2900mAh (11.2 Wh)
Rated Voltage:	3.85V
Dimensions:	Approximately 57.5(W) × 76(D) × 6.9(H) mm
Weight:	Approximately 54g
Bundled Item:	Soft case

Large-capacity Battery Pack Specifications

Model:	HA-R21LBAT
Rated Capacity:	5800mAh (22.4Wh)
Rated Voltage:	3.85V
Dimensions:	Approximately 57.5(W) × 76(D) × 11(H) mm
Weight:	Approximately 98g
Bundled Item:	Soft case

Hand Belt (HA-R93HB)

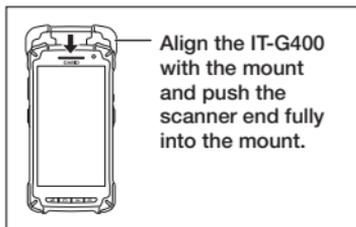
The hand belt (HA-R93HB) is used attached to the IT-G400.



Attaching the Hand Belt

Use the procedure below to attach the hand belt.

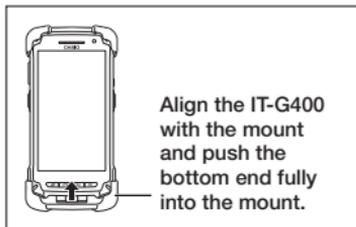
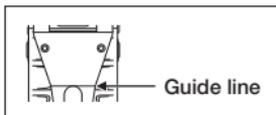
1. Fit the scanner end mount of the hand belt onto the scanner section of the IT-G400.



2. Fit the lower end mount of the hand belt onto the bottom of the IT-G400.

Tip!

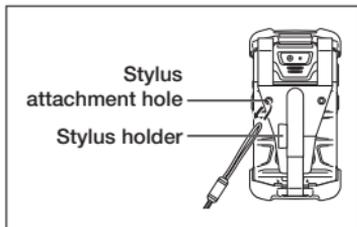
Adjust the belt to a convenient length (so that the end of the hook and loop fastener is level with the guide line) before mounting it onto the IT-G400.



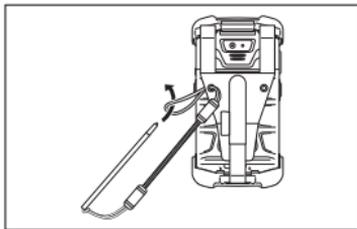
Attaching the Stylus (Pen)

Use the procedure below to attach the stylus (pen).

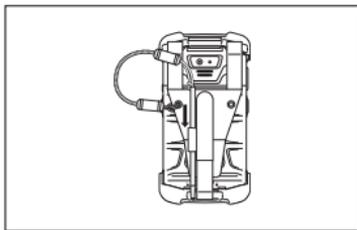
1. Thread the thin cord loop on the stylus (pen) through the hole in the hand belt for attaching the stylus (pen).



2. Pass the stylus (pen) tip-first through the thin cord loop.



- When you are not using the stylus, always place it in the stylus holder.



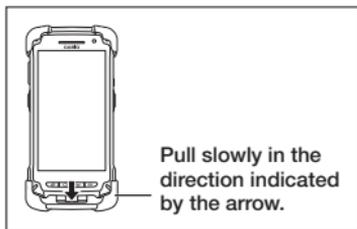
Fitting the IT-G400 into the Cradle with the Hand Belt Attached

When fitting the IT-G400 into a cradle (HA-R60IO, HA-R62IO or HA-R38CHG), remove the lower end mount from the IT-G400 beforehand.

1. Remove the lower end mount of the hand belt from the IT-G400.

Tip!

Adjust the belt to a convenient length (so that the end of the hook and loop fastener is level with the guide line) before pulling the lower end mount off the IT-G400.



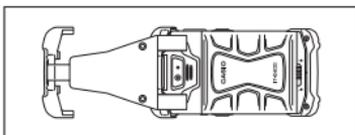
2. Keeping the hand belt out of the way so that it does not interfere with fitting the IT-G400 into the cradle, align the terminals on the base of the IT-G400 with the power contacts in the cradle and then set the IT-G400 in the cradle.



Replacing the Battery Pack with the Hand Belt Attached

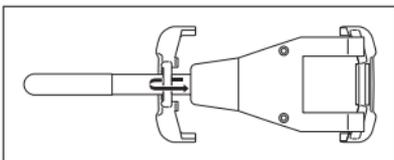
When replacing the battery pack, remove the lower end mount from the IT-G400 beforehand.

1. As when fitting the IT-G400 into the cradle, remove the lower end mount of the hand belt from the IT-G400.
2. As shown in the illustration, pull the hand belt up over the scanner end of the IT-G400 before replacing the battery pack. (For information on replacing the battery pack, refer to page E-17.)

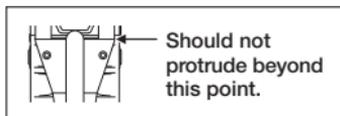


Precautions for Use

- If the belt has been detached from the lower end mount, fit the belt back onto the lower end mount as shown in the illustration.



- Adjust the hook and loop fastener to a suitable length.
- Do not overtighten the hook and loop fastener as doing so will cause the end of the fastener to protrude into the camera's angle of view.



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