

## Hand Held Terminal Operator's Guide

Model  
S1635-01/01A/01B/01U

Thank you for using the Hand Held Terminal.  
Please read this manual thoroughly prior to operation to ensure full use of the product's functionality, and store safely in a convenient location for quick reference even after reading.  
This manual contains only the basic details required for operation.  
Please refer to the User's Manual for further details on general operation.

### Bundled Item

- Hand Held Terminal
- Battery
- Hand Strap
- Stylus
- Operator's Guide
- Safety Precautions

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### To System Designers:

- When introducing HHTs in those systems that could affect human lives (e.g., medicines management system), develop applications carefully through redundancy and safety design which avoids the feasibility of affecting human lives even if a data error occurs.

### Handling the HHT

- Incorrect handling of the HHT could cause electric shock, impaired vision, skin problems, injury, burns and generation of heat and smoke from the HHT. Be sure to observe the following to use the device correctly.
  - Never put the HHT into a microwave oven or high-pressure container. Doing so could cause the HHT to break, generate heat, rupture or burn.
  - Never put the HHT in places where there are excessively high temperatures, such as inside closed-up automobiles, or in places exposed to direct sunlight. Doing so could affect the housing or parts, resulting in a fire.
  - Always using the HHT in extremely humid or dusty areas, or where there are drastic temperature changes. Moisture or dust will get into the HHT, resulting in malfunction, fire or electrical shock.
  - If smoke, abnormal odors or noises come from the HHT, immediately turn off the power, pull out the battery, and contact your nearest dealer.
  - Failure to do so could cause smoke or fire.
  - If you drop the HHT so as to damage its housing, immediately turn off the power, pull out the battery. Failure to do so could cause smoke or fire.
  - Do not use batteries or power sources other than the specified ones.
  - Do not use the HHT in places where there is excessive heat or cause malfunction.
  - Never disassemble or modify the HHT; doing so could result in an accident such as break or fire.
  - Do not insert foreign materials in the HHT.
  - If foreign material or water gets into the HHT, immediately turn off the power, pull out the battery, and contact your nearest dealer.
  - Failure to do so could cause smoke or fire.
  - If the LCD breaks and the liquid leaks from the LCD by mistake, do not swallow, inhale or touch it.
  - Do not use in places where pharmaceutical drugs or chemical substances are treated.
  - If the device becomes wet, dry it off with a dry cloth.
  - When storing the device, make sure that there is no dust, metals, or other foreign substances attached to it.
  - Do not place heavy objects on the device, twist it, or apply strong amounts of pressure to it such as in the case of sitting down on it after placing it in a parts pocket.

### CAUTION

#### Handling the HHT

- Incorrect handling of the HHT could cause generation of heat and smoke from the HHT, and malfunction. Be sure to observe the following to use the device correctly.
  - When using the hand strap or neck strap, exercise due care to avoid getting them caught in other objects or entangling in rotating machinery. Failure to do so could result in accident or injury.
  - Do not use the HHT in the vicinity of wireless devices such as personal radios and ham radios. This could cause malfunction of the HHT.
  - Do not use the HHT in the vicinity of magnetic objects. This could cause malfunction or failure of the HHT.
  - Do not place magnetic cards or the like near the HHT speaker or battery cover. Doing so may result in the loss of magnetic data from cash cards, credit cards, etc.
  - Do not place your ear near the speaker/beeper when tones are being emitted. Doing so may result in hearing loss.
  - Do not apply excessive force when inserting or removing the battery. Doing so will result in damage.
  - In environments where static electricity can build into significant charges (e.g., if you wipe off the plastic plate with a dry cloth), do not operate the HHT. Doing so will result in malfunction or machine failure.
  - Do not drop the HHT on the floor or apply strong shock to it. Doing so could cause malfunction of the HHT.

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No.	Key	Name	Function and Description
①	BKSP	Backspace key	Moves back one character.
②	SCAN	Scan key	Press to scan barcodes. (This key performs the same function as a Trigger key.)
③	SHIFT	Shift key	Used in combination with other keys such as the numerical keys or power key for special input procedures.
④	Trigger keys	Trigger keys	Press to scan barcodes. (This key performs the same function as the Scan key.)
⑥	Cursor keys	Cursor keys	Used to move the cursor and select menus.
⑦	Numerical keys	Numerical keys	Used to enter data.
⑧	ENT	Enter key	Press to finalize entered data or execute operations.
⑨	TAB	Tab key	Used to enter a tab character.
⑩	CTRL	Control key	Used to modify the function of the next key pressed.
⑪	ALPHA	Alphabetical mode key	Switches to alphabet entry mode.
⑫	ESC	Escape keys	Cancels the operation.
⑬	FUNC	Function mode key	Switches to Function mode.
⑭	F1-F10	Function keys	Used to select functions.
⑮	Backlight key	Backlight key	Turns the LCD backlight ON and OFF.
⑯	Power key	Power key	Turns the HHT power ON and OFF.

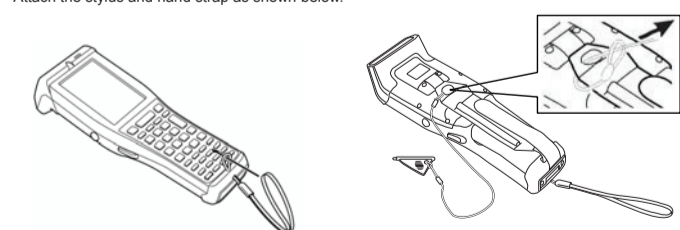
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## Step 2 Attaching stylus and hand strap

Attach the stylus to the hand belt to prevent it from being lost.  
Attach the hand strap to prevent from dropping the HHT accidentally.

### Attachment

Attach the stylus and hand strap as shown below.



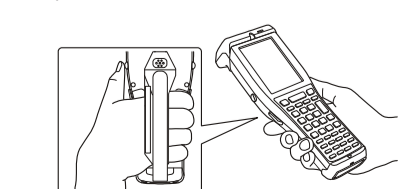
### Holding the HHT

Put your hand through the hand strap and hold the HHT as shown below. This will prevent you from dropping the HHT accidentally.



### Holding the HHT

Insert your hand into the hand belt and hold the HHT as shown below.



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Some of the pixels on the LCD touch screen may not illuminate or stay permanently illuminated. Furthermore, there may also be inconsistencies in color and brightness. None of these aspects represent an LCD defect.  
A thin Newton's ring (rainbow-like patterns) may appear on the touch panel. This does not necessarily indicate a problem with the touch panel.

## About This Manual

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- The reproduction or duplication of the whole or part of this manual is strictly prohibited without prior consent.
- Please contact NEC Platforms, Ltd. ("NEC Platforms") if this manual is lost.
- Every attempt has been made to ensure that the content of this manual is thorough and up to date, however, we kindly ask you to report any questionable descriptions, mistakes or omissions, if any, to NEC Platforms.

## Liability Limitations

- NEC Platforms does not assume any product liability (including damages for lost profits, interruption of operations, or the loss of business-related information) arising out of, or in connection with, the use of, or inability to use the HHT system software or related manuals.
- NEC Platforms takes reasonable precautions to ensure its products do not infringe upon any patents or other intellectual property rights of other(s), however, NEC Platforms cannot be responsible for any patent or other intellectual property right infringement(s) or violation(s) arising from any of the following.
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  - The modification of NEC Platforms' products by parties other than NEC Platforms.
- If it is judged by NEC Platforms that malfunction of the product is due to the product having been dropped or subjected to impact, repairs will be made at a reasonable charge even within the warranty period.
- This product is intended for use in the country/region where you purchased the product, and prohibited to export to other countries/regions.

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- Do not use batteries other than the specified ones.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Avoid using the product near persons with implantable medical device, such as a cardiac pacemaker.
- If a leakage occurs to the rechargeable battery pack, make sure to wipe down the leakage from the battery installation part of the device.
- If carrying the device in a shirt or pants pocket, make sure that the device is not placed for a prolonged period of time near any other equipment or devices that generate heat (such as a pocket warmer). Failure to observe the above could result in low-temperature burns if the device overheats inside of the pocket.

## Wireless Equipment

### Precautions relating to the frequency used by this device

In addition to industrial, scientific, and medical equipment such as microwave ovens, static wireless stations (permit required) used for mobile identification in places such as plant manufacturing lines and specified low-power wireless stations (no permit required) operate on the same frequency band as this device.

- Before using this device, ensure that no static wireless stations or specified low-power wireless stations for mobile identification are being used in the vicinity.
- In the event of instances of electromagnetic interference from this device to a static wireless station being used for mobile identification, either promptly alter the usage frequency, or halt the electromagnetic discharge.
- If other problems arise due to reasons such as electromagnetic interference from this device to a specified low-power wireless station being used for mobile identification, please contact our sales office.

### Requests to system designers

- Communication may not be possible depending on the environment in which the device is being used. Ensure that problem-free communication is possible prior to use.
- Use a program capable of retransmitting data if communication fails.
- If the HHT is introduced into an environment in which a device using 2.4/5 GHz waveband electromagnetic waves is operating, or if another device using 2.4/5 GHz waveband electromagnetic waves is introduced following introduction of the system, run all devices and ensure that communication with the HHT is possible prior to use.

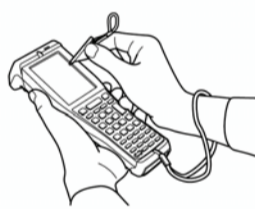
- Check communication once again prior to use if any changes are made to the usage environment (addition of household appliances, movement or addition of shelves, equipment and so on) following introduction of the system.

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## Input Method

### Using the Stylus

The HHT liquid crystal display (LCD) is a touch screen. Buttons, menus and so displayed on the screen can be selected using the stylus provided.



### Touch Screen Operation

Select the LCD touch screen buttons and menus and so on using the stylus provided.

Action	Description
Tap	This involves tapping the touch screen once. This function is the equivalent of a "click" with a mouse on a computer.
Double-tap	This involves tapping the touch screen twice in quick succession. This function is the equivalent of a "double-click" with a mouse on a computer.
Drag	This involves moving the stylus to an object while pressing the touch screen. This function is the equivalent of "dragging" with the mouse on a computer.
Long-tap	This involves tapping the touch screen for several seconds. This function is the equivalent of a "right-click" with the mouse on a computer.

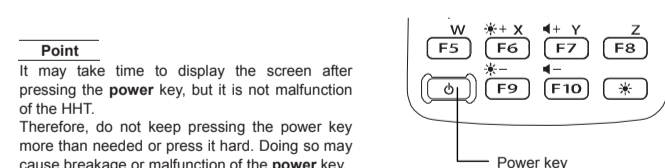
- Always use the stylus provided to operate the touch screen. Never use fingernails or any pointed or hard objects, or apply strong pressure or impact to the touch screen. This may result in damage or a malfunction.
- If dirty, clean the touch screen and stylus tip prior to operation. Failure to observe this may result in scratches to the LCD screen or hinder smooth movement of the stylus.

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## Step 3 Turning ON the Power

Press the **power** key to turn ON the HHT power.

When turning ON the HHT power for the first time or when using after long periods of time, if the dialog box does not display, first perform a "full reset."



### Point

It may take time to display the screen after pressing the **power** key, but it is not malfunction of the HHT. Therefore, do not keep pressing the **power** key more than needed or press it hard. Doing so may cause breakage or malfunction of the **power** key.

Power key

## Usage Precautions

### Usage environment restrictions

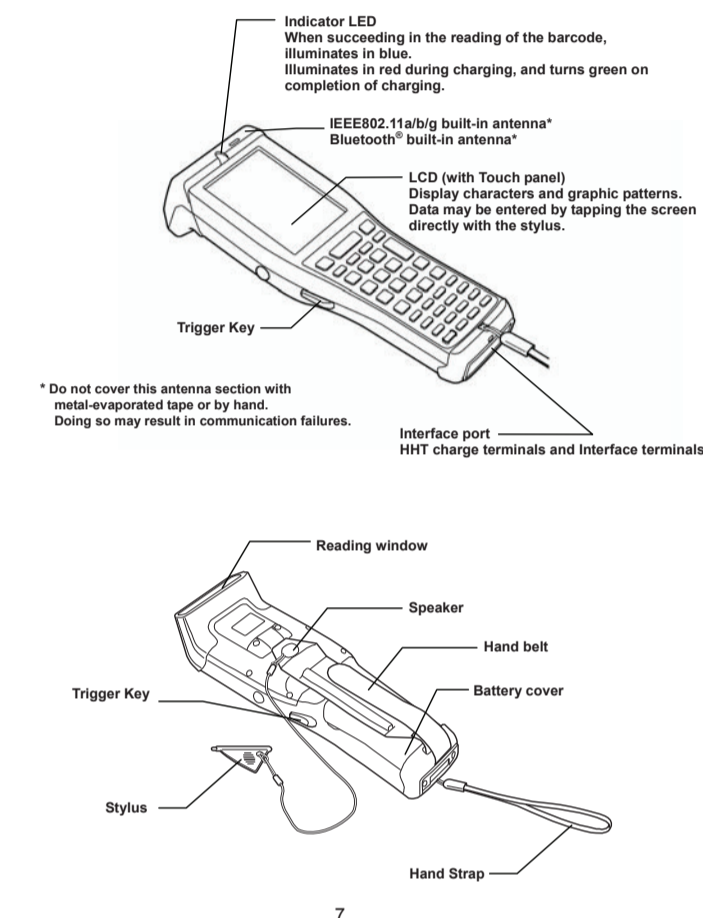
- Use the HHT in following environment.
  - Operating Temperature Range : -10° to 50°C
  - Operating Humidity Range : 20% to 85% RH
- Do not use the HHT where it may be exposed to fire, high temperatures, or direct sunlight. (Failure to observe this may result in damage, overheating, explosion, or fire.)
  - When the HHT is stored in a high-temperature, high-humidity environment of 50° to 60°C, leave to sit in a location at room temperature and normal humidity for at least 1 day prior to use.
  - Failure to observe this may cause a reading failure or damage the HHT.
- Do not use the HHT in places with extreme temperature variations. (Failure to observe this may lead to HHT malfunction due to condensation.)
  - Leave the HHT for a short while prior to use when moved from a cold to a warm environment.
- Do not use the HHT in places where it may be exposed to strong impact or significant static electricity
- Do not use the HHT at the place where flammable gases generate.
- Do not use the HHT at the place which it may be subjected to only smoke or steam, e.g., near a cooking range or humidifier.

### Keep the HHT away from electromagnetic waves and metallic objects.

- Wireless communication may not be possible in the following locations.
  - In the vicinity of the following devices operating on a 2.4/5 GHz waveband (Communication may not be possible due to electromagnetic interference.)
    - Industrial, scientific, or medical equipment such as microwave ovens
    - Wireless LAN devices
    - Logistics systems in places such as plants or warehouses
    - Wireless devices such as personal or amateur radio stations
  - In the vicinity of household appliances emitting electromagnetic waves such as computers or televisions (Communication may not be possible due to electromagnetic noise.)
  - In the vicinity of metallic objects, in places with high levels of metallic dust, or in places surrounded by metal walls (Communication may not be possible due to the presence of metallic objects.)

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## Components and Functions



Do not cover this antenna section with metal-evaporated tape or by hand. Doing so may result in communication failures.

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## SAFETY PRECAUTIONS

Be sure to observe all these safety precautions.

### Meaning of Symbols

- WARNING** Alerts you to those conditions which could cause serious bodily injury or death if the instructions are not followed correctly.
- CAUTION** Alerts you to those conditions which could cause minor bodily injury or substantial property damage if the instructions are not followed correctly.

### WARNING

#### Handling the battery

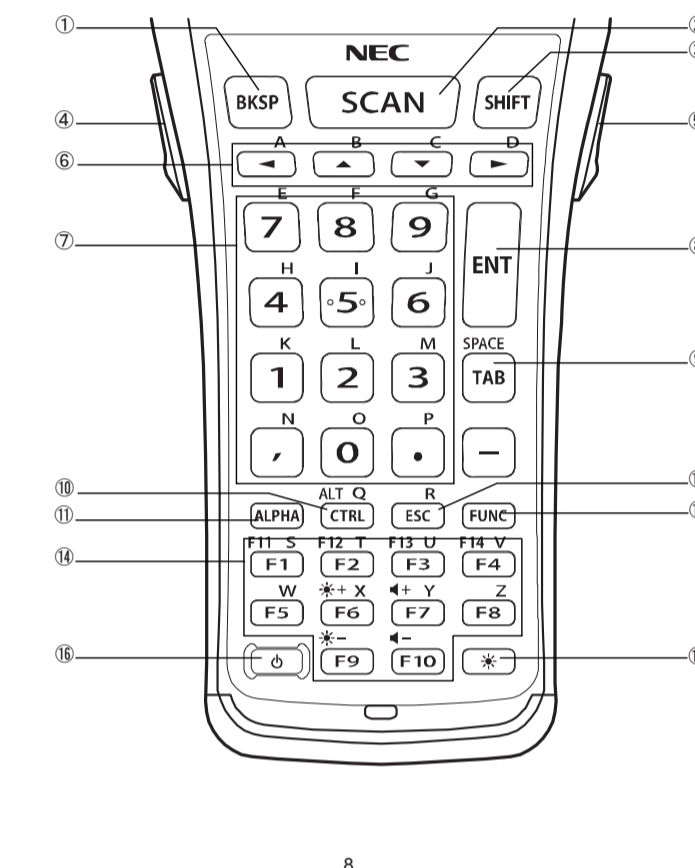
- Incorrect handling of the battery could cause the batteries to generate heat or smoke, or to rupture or burn. This is DANGEROUS. Be sure to observe the following.
  - Never disassemble or modify the battery.
  - Never connect the positive and negative terminals of the battery with a wire or other metallic materials.
  - Do not carry or store the battery together with ballpoint pens, necklaces, coins, hairpins, or anything else metallic.
  - Never burn or heat the battery.
  - Do not use or leave the battery anywhere there is excessively high temperature (60°C or higher), such as near fire or stoves.
  - Do not put the battery into water of any kind or moisten it.
  - Never charge the battery near a fire or anywhere exposed to direct sunlight.
  - Failure to do so could activate the protector due to high temperature and thus prevent the battery from being fully charged. Or it may break the protector, resulting in the battery to overheat, blowout, or combustion.
  - Never charge the battery where any inflammable gases may be emitted. Doing so could cause fire.
  - Do not stick a needle into the battery, hammer at it, or tread on it.
  - Do not let the battery undergo any shock or impact or throw it at something hard.
  - Do not use batteries that are deformed, scratched or cracked remarkably.
  - Solder rothing to the battery directly.
  - The battery is exclusively for the HHT. Do not use the battery for purposes other than charging the HHT.
  - If battery fluid leaks from the battery and it gets into your eyes, rinse them with clean water thoroughly without rubbing and consult a doctor as soon as possible. Otherwise, you may damage your eyes.
  - If the battery does not finish recharging within the specified time, stop recharging.
  - Never place the battery in a microwave oven or high-pressure container.
  - If abnormal odor, heat, discoloration, deformation or any other abnormal conditions are noted when the battery is in use, being charged, or is in storage, remove it from the HHT or HHT Station and avoid further use.
    - Only use the HHT Station for charging the battery.
    - The battery may be warm immediately after charging or use.
    - Do not use in places where pharmaceutical drugs or chemical substances are treated.
    - If the device becomes wet, dry it off with a dry cloth.
  - In the event that a leakage of the rechargeable battery pack occurs and battery acid comes in contact with skin or clothing, please make sure to quickly remove the leakage with water. Damage to the skin may occur if the leakage is not cleaned off the skin or clothing.
  - When storing the device, make sure that there is no dust, metals, or other foreign substances attached to it.

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### Key pad

The HHT key functions can be set at user programs.

The diagram below shows an example of settings for each key function.



## Step 1 Charging

The battery is not charged when purchased and must therefore be charged prior to use.

The following HHT Station can be used with the HHT.

HHT Station: S1635-03, S1635-03B, S1637-03

### Full charging takes approximately 3 hours.

- A slightly discharged battery takes less than 3 hours to fully charge.

### Charging with the HHT

Make sure that the Power LED illuminates in green and the HHT station is powered on.

Insert the HHT along the guide and push it in the HHT station.

The LED illuminates in red (and a beeper sounds) and charging begins.

The HHT Indicator LED will change to green when charging is complete.

The indicator LED flashing in red indicates the following causes. The proper action stated below must be taken.

- Abnormal temperature of the battery is detected.
  - Charge the battery under the proper temperature (10° to 40°C).
  - Avoid places where there are objects generating heat nearby or exposed to direct sunlight.
  - Terminate charging and replace the battery if there are no objects generating heat nearby.
- The charge terminals contact failure
  - Wipe any dirt or dust from the charge terminals.
- Charging is not completed even after the specified time has elapsed.
  - Terminate charging and use a dedicated AC adapter to charge the battery.
  - The battery is broken or the battery life has ended.
  - Replace the battery.

- Refer to "How to Replace the Battery" for how to insert the battery into the HHT main body.
- When charging does not begin, refer to "Proper placing in the HHT Station" and place the HHT in the HHT station properly. When a main battery is completely discharged, a few seconds elapse before the indicator LED illuminates and a beeper sounds.

- Remove the battery from the HHT main body or the HHT Station and store at cool and dry place, when you don't use your HHT for an extended period of time.
- Check the condition of battery after the following points before you store it for a long time:
  - If the battery is full charged (a state right after charge is completed), and
  - If the remaining battery level is very low (there is not enough power left to activate the HHT).
 Long-term storage under these conditions may deteriorate the performance and life of the battery. You are recommended to ensure that the battery is at least at the **100%** charge level required for long-term storage. In addition, even you don't use the battery for a long term, keep this power level by recharging once a year in order to maintain the battery performance.
- The battery may swell over the years. This is a natural characteristic of a lithium-ion battery and is not safety hazard.

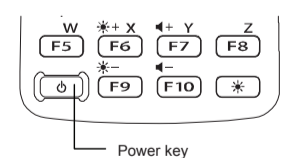
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## Scanning Barcodes

Follow the procedure below to scan barcodes.

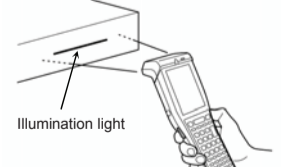
### 1 Turn the HHT power ON.

Turn the HHT power ON.



### 2 Press the trigger key.

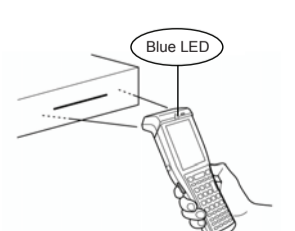
The HHT emits an illumination LED.



### 3 Hold the HHT close to the barcode to align the illumination LED.

When the HHT has read the barcode successfully, the indicator LED will illuminate in blue.

Barcodes can be read also by pressing the Scan key.



The barcode scanning method may differ depending on the application. Perform scanning in accordance with the instructions provided in the application User's Manual.

### Turning the Power OFF

Use one of the following three methods to turn OFF the HHT power.

#### (1) Normal power OFF

Press the **power** key.

The HHT power turns OFF after the message right displays.

### Point

Do not remove the battery while the message on the right is displayed.

Failure to observe this may result in data stored in the HHT being lost.

Shutdown in progress. Do not remove the battery.

#### (2) Turning the power OFF after registry back-up

Hold down the **CTRL** key and press the **power** key.

The message right displays and registry back-up is commenced.

The power turns OFF automatically when the back-up is complete.

### Point

Do not remove the battery while the message on the right is displayed.

Failure to observe this may result in data stored in the HHT being lost.

Now saving Registry. Do not remove the battery.

#### (3) Auto power OFF

The power turns OFF automatically when the HHT is not used for the length of time set at the user program. The default time is set to 3 minutes when the HHT is shipped from the factory.

\* Refer to the User's Manual for further details of auto power OFF.

### Point

Do not remove the battery while Auto power OFF is processing.

Failure to observe this may result in data stored in the HHT being lost.

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When Unable to Successfully Read Codes		
	Cause	Countermeasure
Specular reflection	When the light is focused on the printed surface of the code from directly above, the HHT may not read the code due to specular reflection.	Change the HHT scanning angle and try again.
Distance from code	Scanning may be unsuccessful if it is too close to or too far from the HHT reading window, even when the code is within the read area.	Move the HHT slowly toward or away from the code and try again.
Code surface curvature	Scanning may be unsuccessful if the code surface is curved.	Scan the barcode at the center of the barcode reading window.
Code surface dirt	Scanning may be unsuccessful if its surface is dirty.	Wipe the dirt from the code and try again.
Code reading window dirt	Scanning may be unsuccessful if the code reading window is dirty.	Blow any dust away with an airbrush, and then gently wipe the reading window with a cotton swab or similar soft object.
Direct sunlight, ambient light	Code scanning may be adversely affected by direct sunlight or the brightness of the surrounding light when scanning indoors.	Perform code scanning away from direct sunlight. Try adjusting the brightness of the surrounding light when scanning indoors.

## Battery Power Level Indicator

The battery power level can be checked at the **(batt)** icon that displays in the task tray. The battery power displays in four levels. The battery power level indicator is a guideline to notify the operator to charge the battery promptly when discharged.

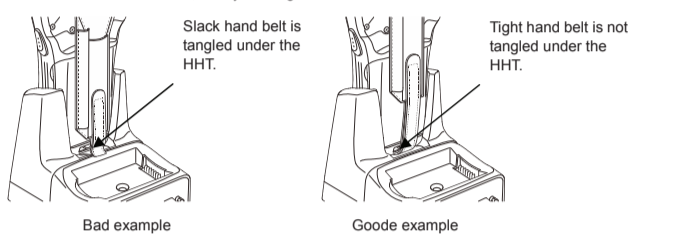
- (batt)** : Sufficient battery power remains
- (batt)** : The battery power is partially depleted. Charge promptly.
- (batt)** : The battery power is almost fully depleted and should be charged immediately.
- (batt)** : The battery power is fully depleted. Charge immediately or replace with a fully charged battery.

Battery Service Life
The battery is a consumable part. And it should be replaced upon the earlier of one year or after being charged approximately 300 times. The performance of the battery's lithium-ion battery will deteriorate gradually with repeated charging and discharging, even during normal use. When the battery operation time becomes shorter even after charging for the specified length of time, replace the battery with a new one.

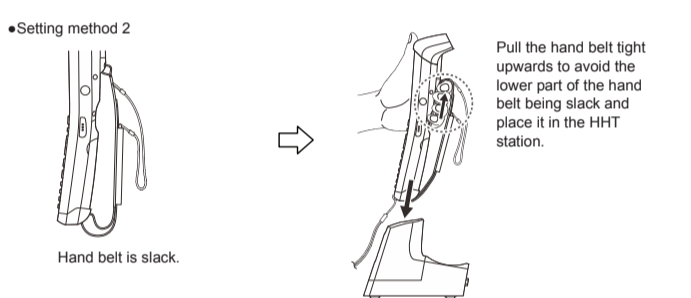
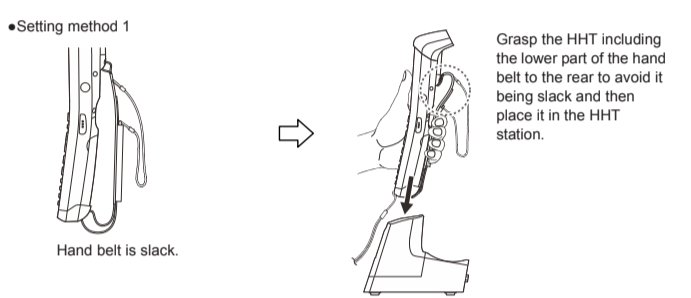
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## Hand belt

When the hand belt is slack, it may be tangled under the HHT.



**Point**  
Tighten the hand belt to avoid it being tangled under the HHT before placing the HHT in the HHT station.



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## Memory Contents after Reset/Full Reset

	Reset	Full Reset
Data in the "FLASH" folder (on-board FLASH memory)	Data retained	Data retained
Data in the "Storage Card" folder (microSD Card)	Data retained	Data retained
Data in other folders	Data retained	Data erased
Contents of the Registry	Data retained	Data erased <sup>(Note)</sup>
Data being edited	Data erased	Data erased

(Note) If the Registry has been backed up (Refer to "Turning the power OFF after registry back-up"), the backed up Registry will be used

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## Declaration of Conformity (for European Union)

English: Hereby, we declare that this S1635-01/01A/01B/01U is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC, 2011/65/EU.  
 Dansk: Vi erklærer hermed, at følgende udstyr S1635-01/01A/01B/01U overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF, 2011/65/EU.  
 Svenska: Härmed deklarerar vi att denna S1635-01/01A/01B/01U står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG, 2011/65/EU.  
 Norsk: Vi erklærer herved at utstyret S1635-01/01A/01B/01U er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF, 2011/65/EU.

Contact the following to get a copy of the Declaration of Conformity.  
 [Contact Address] Retail Group  
 NEC Europe  
 1 Victoria Road London W3 6BL UK TEL: +44 (0)20 8993 8111



## Applicable Countries (for European Union)

Applicable countries  
 This product can be used in the following countries:  
 National code: DK, SE, NO

## Use of radio spectrum in the 5 GHz frequency band (for European Union)

In IEEE802.11a (the frequency band 5150 - 5250 MHz), WAS/RLANs shall be restricted to indoor use.

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## How to Replace the Battery

- Press the power key to turn OFF the HHT power. The screen on the right displays.  
**Point**  
 Do not remove the battery until the power turns OFF and the screen display clears.  
 Shutdown in progress. Do not remove the battery.
- Loosen the hand belt.
- Slide the battery cover lock and remove the Battery cover.
- Remove the battery.

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## Using the HHT after Long Non-Use

Data stored in the HHT may be lost or damaged and the calendar clock may stop if the HHT is left unused for a long period of time.  
 • Keep a backup copy of important or critical information.  
 • Reset the calendar clock if it is stopped.  
 • The battery is also used as a backup power source. You should not remove the battery from the HHT for at least 2 days until memory backup power is fully charged.  
 Please refer to the User's Manual for more information on trouble shooting.

## Troubleshooting Guide

Problem	The HHT power does not turn ON.
• Make sure that the battery is properly inserted into the HHT. • Check the battery power level and charge the battery if necessary. • Wipe any dirt from the battery and HHT terminals.	
Problem	The HHT cannot be charged.
• Make sure that the HHT Station is being used. • Make sure that the battery is properly inserted into the HHT. • Make sure that the HHT has been properly placed on the HHT Station. The HHT LED will turn red when properly placed on the HHT Station. • Wipe any dirt from the battery and HHT terminals. • If the battery in use is an old one that has been repeatedly charged 300 times or more, or if more than one year has elapsed, replace it with a new one.	
Problem	The HHT unexpectedly turns OFF
• Make sure that the battery has been fully charged. • The HHT may be set to auto power OFF. If so, the HHT will automatically turn OFF when it is not used for the specified period of time. The auto power OFF setting can only be changed with the user program.	

If the HHT cannot be tuned ON even after taking all the above measures, there is a possibility that the HHT Station is broken. Notify the system administrator.  
 Refer to the User's Manual for appropriate measures if an error message is displayed on the HHT during the operation.

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## Battery Recycling Request

- This product uses a lithium-ion battery that contains scarce, valuable recyclable resources. We kindly ask for your cooperation in recycling to promote reuse of these resources.
- Contact your nearest local sales office for information on disposal procedures.
- When disposing of used batteries, cover the terminals with vinyl tape to insulate and protect them from overheating or fire that may be caused by short-circuit.
- Never disassemble or break down the battery.

**Disposing of your used NEC product**

**In the European Union**  
 EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes **Hand Held Terminals**.

When disposing of used NEC products, you should comply with applicable legislation or such terms which may have been agreed between NEC and your company regarding used products. The mark on the electrical and electronic products only applies to the current European Union Member States.

**Outside the European Union**  
 If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority and ask for the correct method of disposal.

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## 인증 표시 KC Regulation (for Korea)

**S1635-01B**

본 급 기기 (가정용 방송통신기자재)  
 이 기기는 가정용(본 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

해당 무선설비는 전자파신 가용성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

인증번호	KCC-CMM-DNW-S1635-01B
상호 또는 성명	DENSO WAVE INCORPORATED
기기명 및 사양	직접수출형 무선기기(무선연동 포함) 무선접속시스템용 무선기기
기본모델명	S1635-01B
제조년월	: 제품에 부착되어있는 표시를 참조하십시오
제조자	DENSO WAVE INCORPORATED
제조국가	: 중국(China)

## NCC Regulation (for Taiwan)

第十二條  
 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條  
 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。  
 低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## Regulaciones de COFETEL (para México)

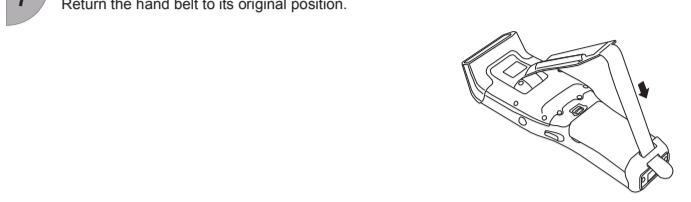
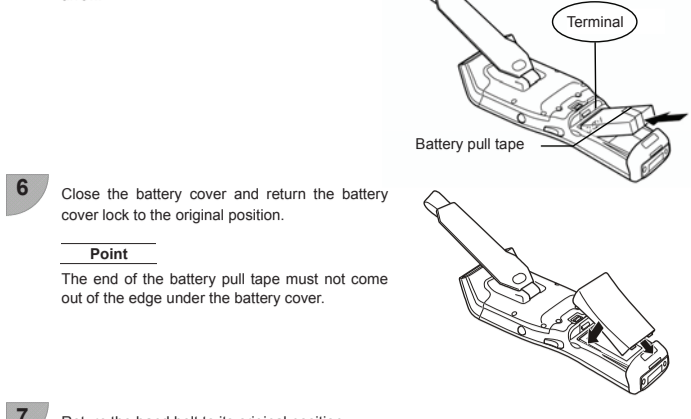
**S1635-01B**  
 La operación de este equipo está sujeta a las siguientes dos condiciones:  
 (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y  
 (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

## Environmental regulations

**S1635-01B**  
**VIETNAM: RoHS**  
 Complying with "CIRCULAR, No.30/2011/TT-BCT (Hanoi, August 10 2011). Temporary regulations on content limit for certain hazardous substances in electrical products

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- Load the battery in the direction shown by the arrow.



- Return the hand belt to its original position.

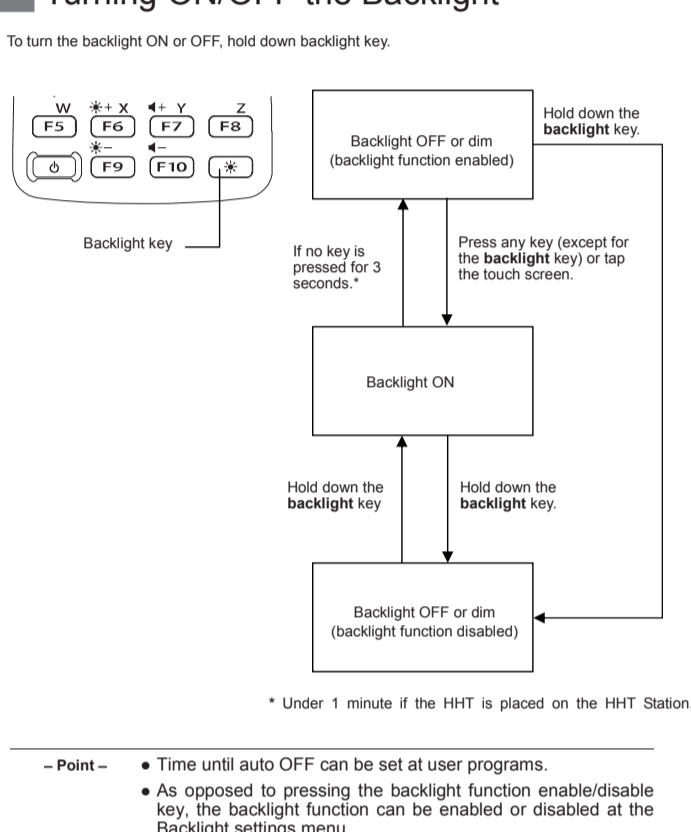
**Point**  
 Use the dedicated Battery (BT-110LA).

Model	Battery type	Nominal voltage	Nominal capacity
BT-110LA	Lithium-ion battery	3.7 VDC	2300mAh

Specifications and external appearance are subject to change without notice.

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## Turning ON/OFF the Backlight



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## FCC Regulation (for United States America)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:  
 • Reorient or relocate the receiving antenna.  
 • Increase the separation between the equipment and receiver.  
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
 • Consult the dealer or an experienced radio/TV technician for help.

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

**Note:**  
 This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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

[Contact Address] Regulatory and Quality Management Dept.  
 NEC Corporation of America  
 6535 N. State Hwy. 161 Irving, TX 75039 Tel: 214-262-2000

## IC Regulation (for Canada)

This Class B digital apparatus complies with Canadian ICES-003.  
 Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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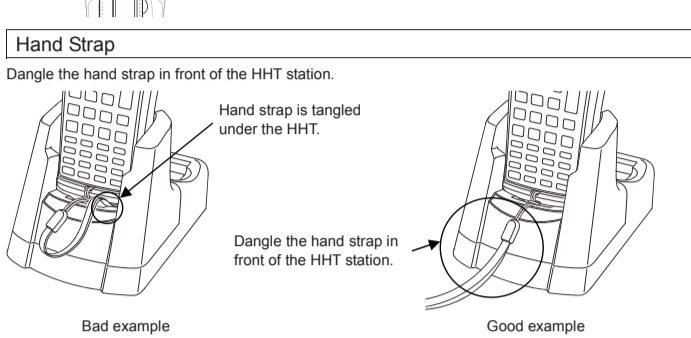
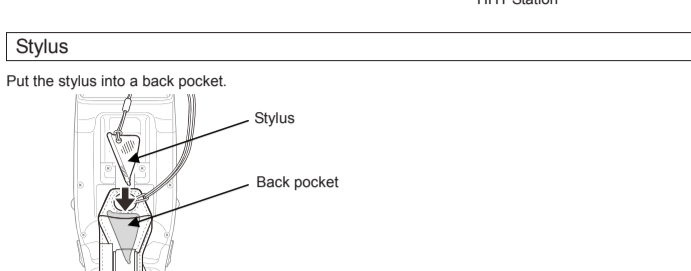
## TRA regulations (United Arab Emirates)

**S1635-01U**  
 Telecommunications Equipment Labels

<b>TRA</b>
REGISTERED No: nnnnnn/n
DEALER No: xxxxxx/xx

## Proper placing in the HHT Station

To place the HHT in the HHT station properly, insert the HHT along the guide and push it into the HHT station. When the HHT is placed into the HHT station properly, the indicator LED illuminates and a beeper sounds. When the indicator LED does not illuminate and the beeper does not sound, the HHT may not be properly in place with its stylus, hand strap or hand belt possibly tangled up under the devices. Follow the procedures below to avoid the problem.



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## Resetting and Full Resetting

**Reset**

Reset the HHT in the following cases.  
 • The HHT makes no response to entry from the touch screen or keys.  
 • Programs in the HHT malfunction for some unknown reason.

**Reset Method**

With the HHT power ON, press the reset key combination (**BKSP + RIGHT Trigger + Power**). Then release all keys.

**Point**

Data stored as a file will not be lost even after resetting. However, any data currently being edited will be lost.

**Full Reset**

Perform a full reset if the problem persists even after resetting.

**Full Reset Method**

With the HHT power ON, press the full reset key combination (**BKSP + SHIFT + Left Trigger + Power**) more than 1 sec. Then release all keys.

**Point**

When performing full reset, all data including files and settings stored in the RAM will also be lost and the RAM will revert to the factory default. It is recommended that any important data be backed up to the "FLASH" folder or to the computer before full reset. When the HHT turns ON after the data in the RAM is deleted, the HHT starts from the "Initial Setup".

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Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :  
 (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device for operation in the band 5150 - 5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems. Les dispositifs fonctionnant dans la bande 5150 - 5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

High-power radars are allocated as primary users (i.e. priority users) of the bands 5250 - 5350 MHz and 5650 - 5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices. Les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250 - 5350 MHz et 5650 - 5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

**2.4 GHz WLAN**  
 For product available in the USA / Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

**FCC/IC Radiation Exposure Statement**  
 The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. S1635-01/01A/01B has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. The maximum SAR levels tested for S1635-01/01A/01B has been shown to be 0.034 W/kg (2.4 GHz) and 0.077 W/kg (5 GHz) at Body.

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## NEC Platforms, Ltd.

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 February 2015 7th Edition

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This manual uses recycled paper.