

Unitech



HT580 User's Manual

RoHS_Version 1.0

NOTICE

1. This unit is equipped with a Li-Ion battery pack. Please ensure the battery is full capacity when you start to use the terminal. Fully charged battery might be appeared the low due to storage for a long period time. Recharge the battery when the display of the battery is indicated.

2. **USB Driver Installation**

Please refer to the attached CD in the package. To activate USB, please install the driver first as the driver software enclosed in the CD.

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Chapter 1: Introduction

1.1 Overview

Thank you for choosing the HT580 RoHS model from Unitech Electronic Co. Ltd. This Portable Data Collection Terminal is one of the most user friendly handheld terminals suitable for any retailer-oriented market. Developed under C language, the HT580's Proprietary Operation System is capable of running programs and developing many application programs, specifically for your own business. Weighing at only 150g, the light-weight of the HT580 is ideal for long-hour working operators. It is also capable of sustaining a 1.2 meter drop to the concrete floor. With all these attributes, we believe the HT580 is going to satisfy your retailer needs. Our standard package includes the HT580 terminal, communication cradle, adaptor, USB & RS232 Y cable, holster and strap. Two types of optional communication/charging cradles, RS232 and Modem, are offered for user's preference.

1.2 Support

At Unitech, we have a professional support team to answer your questions or any related technical issues. If the equipment problem occurs, you may contact our regional services representatives to get the quick response or visit our website to look for our worldwide service center at <http://www.unitech-adc.com>

1.3 Features

HT580 includes the following features

- ☑ Operation System: Proprietary
- ☑ Memory: 2MB
- ☑ Display: 128 * 64 pixel
- ☑ Keypad: 18-key keypad
- ☑ Data Capture: CCD & Laser
- ☑ Communication: Bluetooth/RS232/USB
- ☑ RoHS compliance

1.4 Technical Specification

Model	HT580
Dimensions	123mm x 55mm x 25mm
Weight	150g
Drop Specification	1.2M free drop to concrete floor
Display	128 x 64 pixel; 16x8 characters or 12x4 characters
Battery	One 3.7V 730mAH Li-ion battery
Operation Temperature	0°C~50°C
Storage Temperature	-20°C ~70°C
Humidity	20% to 85% RH, ; not condensed
Electrostatic Discharge (ESD)	4 KV contact discharge 8 KV air discharge
Back-Lit Display	Yes
Keypads	18 alphanumeric keys including one scan trigger
CPU	8 bit
Operating System	Proprietary (C Language)
Memory	2MB
Application Development	EZ Job
Communication	RS232/USB1.1/ Bluetooth/Modem
Battery Life	8 hours
Battery Recharging Hour	Roughly 4 hours
Symbolologies	UPC/EAN, Code 39, Interleave 2 of 5, CODABAR, MSI, Code 128, Code 93, Code 32,China Postal Code
Buzzer	Yes, over 75 dB
One LED	Reading – green color

1.5 Product Illustration

This section is designed to familiarize you with the HT580 and its cradle. If you need detailed explanations on some of the functions, please refer to further chapters for detail explanations.



Figure 0-1: HT580 Front View



Figure 0-2: HT580 Back View



Figure 0-3: HT580 Top View



Figure 0-4: HT580 Bottom View



Figure 0-5: HT580 Battery Position



Figure 0-6: HT580 charging/communication cradle, features 2 types: RS232, modem communication



Figure 0-7: Modem cradle Back View



Figure 0-8: RS232 Cradle Back View



Figure 0-9: HT580 communication/charging cable (Unitech part number: 1550-601765G)



Figure 0-10: HT580 Li-Ion Battery (Unitech part number: 1400-202536G)

1.6 Battery Storage and Safety Precautions


Batteries should be stored at a normal room temperature and be sure to avoid to placing them in any situation where explosion of damage could possibly occur. The Li-Ion battery power may be reduced if they are not used for several months due to back up and internal resistance. If this happens, we suggest recharging it prior to use.

Remove Main Battery

When removing the main battery, press down on the release button while pushing out the cover on the unit. **We suggest that the battery not be removed, unless it is necessary.**

Charging

When starting to operate the HT580, the main battery must be fully charged before the first use. The HT580 is equipped with a 3.7V 730m.A.h Lithium-Ion battery. It takes nearly 4 hours to fully charge the main battery when it is empty. We suggest users recharge the battery regularly after long hours of use.

 The icon shown in the menu, this is to indicate the current battery capacity status.

There are 2 ways to charge the main battery:

1. Mount the unit on the cradle; connect power adaptor from the back of the cradle to any power outlet.
2. Or, use the standard USB cable, connect it to PC USB.

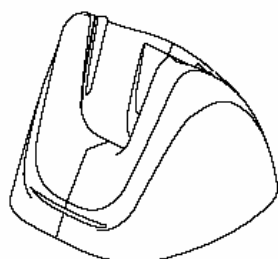
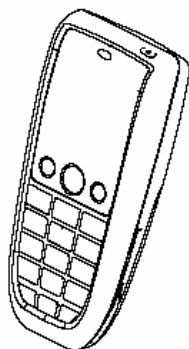
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1.7 Communication Cradle

Battery can be charged through attaching to the HT580 charging/communication cradle { part number : 5000-601557G(Modem) / 5000-601558G(RS232) }

Positioning Terminal Into Cradle

.1. Proper Position

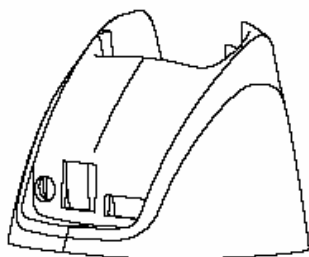
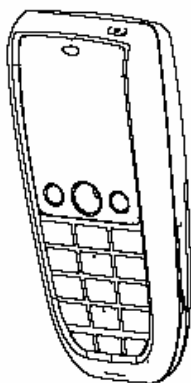


Front View

The right side picture shows the proper way to insert your terminal while you use cradle to transmit data or to charge.

Please be also noted that the connector in the bottom of the cradle may be damaged if you press excessive strength to insert in terminal.

2. Improper Position



Back View

The right side picture shows the improper way to insert your terminal into cradle.

Please do not insert the cradle in the wrong position to avoid any damage occurred.

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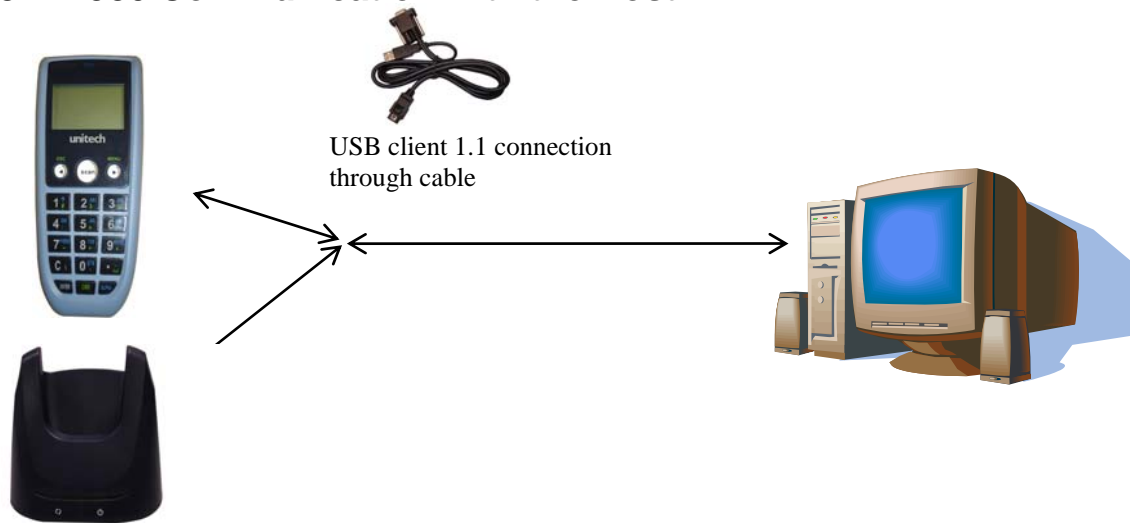
Communication Cradle LED Icons



This LED light (Red) shows the power status of the cradle itself. When the light is on, it is indicated the cradle is in charging. To identify if it's fully charged, you may need to check from terminal LCD.

This LED light (Green) shows transmission status of the cradle itself. When the light is on, it is indicated the data is in transmission.

1.8 HT580 Communication with the Host



RS232/Modem Cradle Communication

1.9 Interface Port

The HT580 communicate via the RS232 communication port located on the bottom of the unit. You can connect the unit via the communication cable to PC RS232 jack for data transfer or connect through cradle for communication.

1.10 Pin Assignment

Pin	Name	Pin	Name
1	US-POWER	7	DSR
2	GND	8	GND
3	DC-IN	9	DTR
4	USB DP	10	TXD
5	CTS	11	RXD
6	RTS	12	USB DP


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1.11 Keypad

The keypad of HT580 consists of 18 rubber keys and one power key; the keyboard is configured into three different modes: **numeric mode**, **command mode**, and **alphabetic mode**.

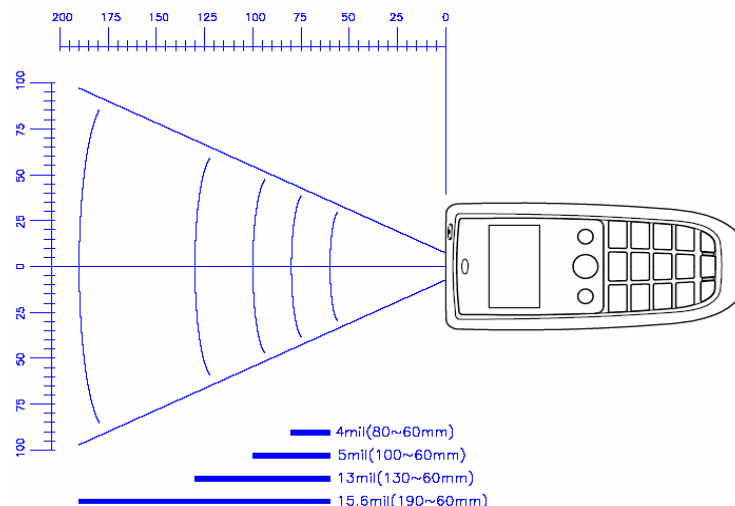
The keyboard is configured in Numeric mode by default, command mode when the light green CMD key is selected, or alpha mode when the blue ALPHA key is selected.

Keypad Description

- [] To power on the unit, you need to press power key.
The power key is right on the top of the cover.
- [ESC] Returns you back to the previous menu.
- [MENU] Press [MENU] to scroll items you desire
- [scan] Press [scan] key to trigger scanning function or to perform as [ENTER] key while it is executed in [SETTING] mode
- [C] Press [C] to delete
- [ENTER] Press [ENTER] to save the change or go to next page
- [ALPHA] Press [ALPHA] to switch to Alphabet; in any alphabet or delimiters in blue; such as "@", "?", can be converted to perform it
- [CMD] Press [CMD] key to perform delimiters; such as "#", "\$" etc.;
in any alphabet or delimiters in light green can be converted to perform it



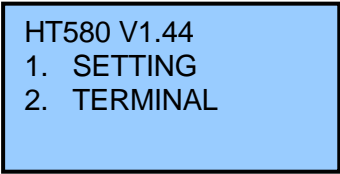
1.12 Barcode Scanning Spectrum



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Chapter 2 Operating the HT580

When you power on the HT580, you will be able to see the main menu as below:
The HT580 V1.44 meaning our current delivery F/W version.



```
HT580 V1.44
1. SETTING
2. TERMINAL
```

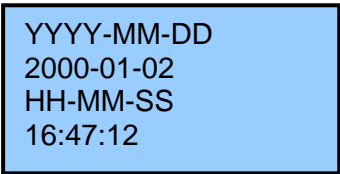
2.1 Setting System

Press [1] or [Enter] / [scan] key to enter " **SETTING**" category, there are four setting options which include the following:

1. **DATE & TIME**
2. **DEVICE**
3. **MODEM**
4. **SUPERVISOR**

2.1.1 DATE & TIME:

Press [1] or [Enter] / [scan] key to enter DATE & TIME category so that you are able to set the correct date and time. The page will appear as it is shown below:



```
YYYY-MM-DD
2000-01-02
HH-MM-SS
16:47:12
```

Press numeric keys to input correct date & time. Once complete, press [ENTER] to save the revised settings. To go back to previous menu, press [ESC].

2.1.2 DEVICE

When you select device setting, you will be able to see three settings as shown below:

To move down to each setting, you may press either number or arrow key.

- 
- ```
1. BACKLIGHT
2. SCANNER
3. AUTORUN 4. MEM
5. BUZZER 6. KEY
```

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## 2 2.1.2-1< BACKLIGHT >

Press [1] or [scan] to enter <BACKLIGHT> mode and to press [ESC] to go back to the device setting mode.

< **BACKLIGHT** > selection: press [MENU] to scroll down on your preferred mode of backlight remaining time as ALWAYS/OFF/ON 10 SECS/ ON 20 SECS/ ON 30 SECS/ ON 60 SECS

Once you select the preference remaining time of backlight, press [ENTER] to complete the setting.

**Note:** To select "10 SECS/ON "means that backlight being active for 10 sec and the default may be reset if you press any key while backlight being active.

## 2 2.1.2-2< SCANNER >

Press [2] or [scan] to enter <SCANNER> mode and to press [ESC] to go back to the device setting mode.

< **SCANNER** > selection: **ON NORMAL/ON FLASH/OFF**. Selecting your preference and press [ENTER] to complete the setting.

## 2 2.1.2-3<AUTORUN>

Press [3] or [scan] to enter <AUTORUN> mode. Press [ESC] to return to the device setting mode.

<**AUTORUN**> automatically runs the selected program once you change the default. The default of AUTORUN has been set up in "off" mode. Three programs can be selected; they are <**RESUME**>, <**OFF**>, <**TERMINAL MODE**>, < **FORMCACHING**> and, <**EASYJOB**>. Once you define the selected program, the program will automatically be activated when you restart the unit. The main menu will be run in the program.

## 2 2.1.2-4<MEMORY>

Press [4] or [scan] to enter <MEMORY> and press [ESC] to go back to the device setting mode.

In this mode, it provides you the current memory status.

<**MEMORY**>  
**TOTAL: 2048K**  
**FREE: 2039K**

## 2 2.1.2-5<BUZZER>

Press [5] or [scan] to enter <BUZZER> and press [ESC] to go back to the device setting mode.

In this mode, it provides you the BUZZER SELECTION.

<**BUZZER**>  
**ON**  
**OFF**

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## 2 2.1.2-6<KEY>

Press [6] or [scan] to enter <KEY> and press [ESC] to go back to the device setting mode.

In this mode, it provides you the KEY SELECTION.

<ESC---->ENTER>

OFF

ON

## 2 2.1.3< MODEM >

To perform modem command, please plug in modem cradle and it will be automatically initiated. To execute on < MODEM >, press [3] or [scan] to enter this mode and press [ESC] to go back to the previous menu.

There are four settings to be executed as

1. PHONE NUMBER
2. AUTO ANSWER
3. DAIL OUT
4. HANG UP

For the detail operation, please refer to HT580 operation manual.

## 2 2.1.4< SUPERVISOR >

When entering into “**SUPERVISOR**” mode, you will be required to input your password. For the manufacturing default password, our setting is 580. If you would like to set on your Own security password, you may change it from the following setting at **5. PSWD** category to reset. Press [4] or [scan] to enter <**SUPERVISOR**> mode setting. Press [ESC] to return to the previous menu.

In the supervisor mode, you will enable to do setting of below tasks. Please refer to the operation manual for detail settings.

- |         |         |
|---------|---------|
| 1. COMM | 2. TERM |
| 3. FORM | 4. PWR  |
| 5. PSWD | 6. BAR  |
| 7. DIAG | 8. SYS  |

## 2.2 TERMINAL

From the main menu, there are two categories as 1. Terminal and 2. FORMCACHING to be selected to input simple inventory information by scanning.

In the default setting for **FORMCACHING**, Field 1 is defined as “**item**”, and Field 2 is defined as “**Q'ty**”. To change the default of the fields, go to “**FORM**” under “**SUPERVISOR**” in the mode category.

To start <**FORMCACHING**>, press [2] or [scan] to enter. Press [ESC] to return to the previous menu.