# BHT-8000 series incorporating portability and functionality. With the largest liquid crystal display & memory in its class

**Barcode reading is now even faster & easier.**

## Impressive ability to read difficult barcodes

Equipped with an advanced scanning system, the BHT-8000 Series can even read wide, high-density & low PCS labels.

**Improved long-range reading capability**

Scanning distance 250 mm MAX (BHT-8000/8100)
400 mm MAX (BHT-8000D)

Shipment inspection

## Large 8MB memory ensures reliable data collection

Equipped with a substantial 8MB (BHT-8048D) memory. Data can be backed up reliably with the Flash File System.

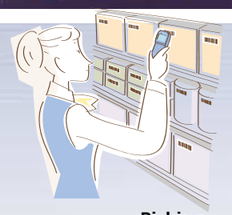
## Compact, slim body can be used effortlessly for long periods

The pocket size unit is lightweight, portable, and easy to use.

Sales management

## Large liquid crystal display for enhanced visibility

The Large 128×64 dot display allows you to configure the display to suit your needs.

Picking

## Superior features provide application versatility

Trigger switches on both sides & large magic keys for ease of use.
Resin keys to ensure letters don't fade.
A wide key pitch of 13.7mm despite the compact body.

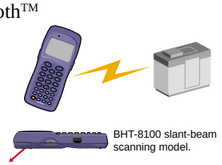
Logistics work

## Vibrator ensures reliable reading confirmation

In addition to LED and beeping functions, the unit is equipped with a vibrator. Confirmation of successful operation can be obtained even in noisy or outdoor working environments.

## Models available

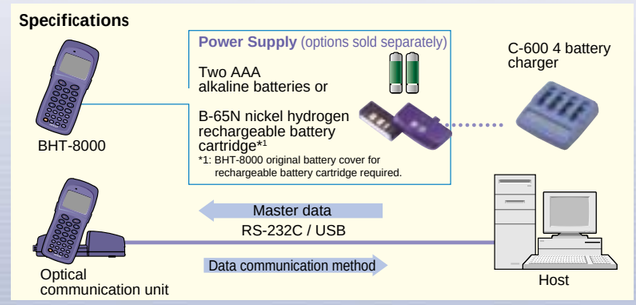
| | |
|---|---|
| **BHT-8044** | Optimal readability for touch scanning. |
| **BHT-8044D** | Suitable for a wide range of reading options, from touch scanning-range, to longer-range scanning. |
| **BHT-8048D** | Equipped with large 8 MB memory. |
| **BHT-8048DB** | Equipped with Bluetooth™ for easy-to-use wireless connection. |
| **BHT-8144** | Slant-beam model that enables easy desktop scanning. |

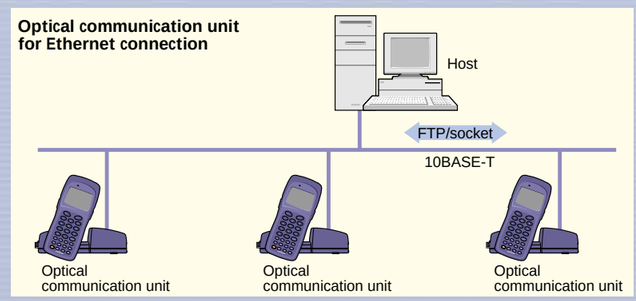


BHT-8100 slant-beam scanning model.

* Bluetooth is the trademark of Bluetooth SIG Inc. and is used under license by Denso Wave.

## Multi-functional system configuration




## Software for BHT-8000 Series

**Construct the optimum set-up for your application**

**Tools for Development and Communication**

### BHT-BASIC 3.6 Compiler

Facilitates full use of the BHT Function
- Creation of source in BASIC
- Split compile function that creates programs from multiple sources
- Can create library for simple reuse of multiple programs

### BHT-BASIC Remote Debugger

Online debugger significantly shortens development lead time
- The BHT can be connected directly to a PC for confirmation of operation.
- Function for debugging, including reading, display, and entry, is included.

BHT-8000

### Ir Transfer Utility C

(For RS-232C communication)

Utility software for transferring data from the BHT
- Programs and data can be transferred in either direction between the BHT and a PC.
- An executable DLL pack that can be called from Windows applications is available.

Optical communication unit

BHT-8000

Step1 Determine specifications

Step2 Create program

Step3 Compile

Step4 Debug

Step5 Download

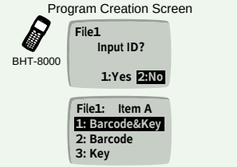
Step6 Begin operation

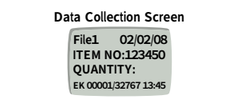
Step7 Upload

**Easy Operation for immediate start-up**

**Easy Pack Pro**

This program is in the form of a dialogue which allows you to collect and transmit barcode data easily.



DENSO

## BHT-8000 Specifications

| | | | BHT-8044 | BHT-8044D | BHT-8048D | BHT-8048DB | BHT-8144 |
|---|---|---|---|---|---|---|---|
| Controller | CPU | | 32 bit RISC micro processor | | | | |
| | Memory | | 4.5 MB (User area 2.5 MB) | | 8.5 MB (User area 6.3 MB) | 9 MB (user area 6.1 MB) | 4.5 MB (user area 2.5 MB) |
| Display | Size | | 128 x 64 bit | | | | |
| | Display device | | Liquid crystal dot matrix display | | | | |
| | Capability | ANK | 21 chars x 8 lines (regular font), 21 chars x 10 lines (small font) | | | | |
| | | Kanji | 8 chars x 4 lines (regular font), 10 chars x 5 lines (small font) | | | | |
| | Back light | | LED | | | | |
| Scanner | Method | | Advanced scanning | | | | |
| | Scanning-area | | 260 mm MAX *1 (See diagram below) | 340 mm Max. *2 (See diagram below) | | | 260 mm MAX *1 (See diagram below) |
| | Width of reading window | | 39mm | | | | — |
| | Readable codes | | EAN-13/8, UPC-A/-E, UPC/EAN (with add on code), Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128 (EAN-128), Standard 2 of 5 | | | | |
| | Resolution | | 0.10 mm | 0.15 mm | | | 0.125 mm |
| | Readable Direction | | Straight | | | | Slant |
| | Read Confirmation | | Red, green 2 color LED, beeper and vibration | | | | |
| Key input | Number of keys | | 24 keys (including power button) + 2 magic keys + 2 trigger keys | | | | |
| Communi-cations | Optical I/F | Method | Infra-red (IrDA-SIR Ver. 1.2 (Low Power) compliant) | | | | |
| | | Speed | 115.2 Kbps MAX | | | | |
| | | Distance | Approximately 0.15 m | | | | |
| | Wireless I/F | Standard | — | | | Bluetooth Ver 1.1 PowerClass 2 *4 | — |
| | | Wavelength | — | | | 2.4 GHz band | — |
| | | Distance *5 | — | | | 5 m MAX | — |
| | | Conversion method | — | | | Spread spectrum method (frequency hopping) | — |
| | Cable I/F | | RS-232 C (115.2 Kbps MAX) | | | | |
| Auxiliary functions | | | Calendar clock, beeper, vibrator, resume function, low-battery indication, remote wakeup function | | | | |
| Power supply | Main battery | | Two AAA alkaline batteries or Ni-MH battery cartridge (selective option) | | | | |
| | Operation hours *6 | | Ni-MH battery cartridge: Approx. 30 hours Two AAA alkaline batteries: Approx. 80 hours (Two times scanning of bar code in 10 seconds)*7 | | | | |
| | | | — | | | Ni-MH battery cartridge : Approx. 6 hours Two AAA alkaline batteries : Approx. 8 hours *8 | — |
| Environment requirements | Temperature | | Operating: -5 to 50℃ | | | | |
| | Drip proof | | JIS drip-proof II | | | | |
| | Drop impact strength *9 | | Six surfaces of unit, five times each (total 30 times) from 1.2 m (47.2 inches) onto concrete floor | | | | |
| Weight | | | Approx. 160 g | | | | |

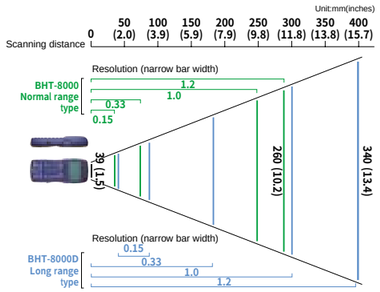
*1: Scanning at a distance of 290 mm (narrow 1.2 mm min., ambient luminance: 500 lux min). *2: Scanning at a distance of 400 mm (narrow 1.2 mm min., ambient luminance: 500 lux min). *3: Scanning at a distance of 300 mm (narrow 1.2 mm min., ambient luminance: 500 lux min).
*4: Equipped profile/GAP, SDAP, SPP, DUNP *5: Distance may differ according to operating conditions.
*6: Operation hours may differ according to operating conditions. *7: When BHT-8000D series are used in the power-saving mode.
*8: One 30-second cycle = scan (1 second), wireless communication, screen display (1 second), stand-by.
*9: Figures are provided for reference only and are not guaranteed.

## CU-8000 Specifications

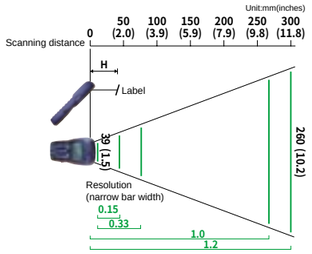
| | | | CU-8001 | CU-8002 | CU-8021 *1 | CU-8011 *2 |
|---|---|---|---|---|---|---|
| Commu-nications | BHT ⟷ CU | Method | IrDA-SIR Ver 1.2 (Low Power) compliant | | | |
| | | Speed | 115.2 Kbps MAX | | | |
| | CU ⟷ HOST | Method | RS-232C | | USB 1.1 Full-Speed compliant | Ethernet |
| | Connector | | Dsub-9P | | USB B Type receptacle | RJ-45 |
| Status indicator | LEDs | | 4 (Power, communication BHT charge, Battery charge) | —— | 4 (Power, communication BHT charge, Battery charge) | 4 (Power, communication BHT charge, Battery charge) |
| Battery Charger | Charge time | Battery loaded in BHT8000 (D) | 8-hour | —— | 8-hour | |
| | | Battery alone | 8-hour | —— | 8-hour | |
| Power source | | | AC/DC adapter | From a connection part | From a connection part | AC/DC adapter |

*1: Connection may not be possible depending on the type of PC or USB-HUB being used. Prior confirmation of connection compatibility is required. It is necessary to purchase the AC adapter (sold separately) when recharging or discharging the battery whilst the connected device is turned off or suspended if power supply from the connected device is not possible.
*2: Available soon.

## BHT-8000 Scanning Performance




## BHT-8100 Scanning Performance



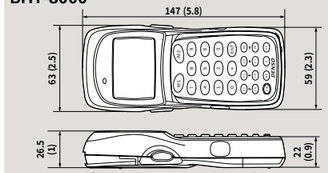

◆ Please read the user manual carefully before use.
◆ Only use your units at the rated voltage.
◆ Specifications are subject to change without notice.
◆ Information in this catalogue is current as of June 2003.

## BHT-8000 Series

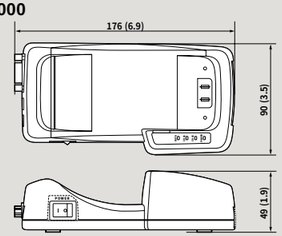
### Dimensions

Unit: mm(inches)

BHT-8000




CU-8000




### Software (sold separately)

- BHT-Basic expansion pack
  (BHT-BASIC 3.6 Compiler/BHT-BASIC remote debugger/Ir-transfer utility C/cable)
- BHT-BASIC 3.6 Compiler
- BHT-BASIC Remote Debugger
- Ir transfer utility C
- Ir transfer utility C DLL pack
- Easy Pack Pro

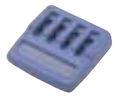
### Accessories

- Hand strap

### Options (sold separately)

- Optical communication unit **CU-8000**

- Battery charger **C-600**



- Nickel metal hydride rechargeable battery cartridge B-65N
- Manual pack
- Soft case/hip case
- Neck strap


Printed in Japan on 100% -recycled paper

**Manufacturer :** DENSO WAVE INCORPORATED

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DENSO

Bar code scanner

BAR CODE HANDY TERMINAL

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