

# DENSO

Member of the TOYOTA Group

HANDHELD TERMINAL

# BHT-1500

SERIES



LIGHT IN TOUCH.  
LIGHT IN WEIGHT.



DENSO OS



## A feature rich compact device

Light weight with clear bright screen and ergonomically designed



■ BHT-1500 series can be used in a wide variety of situations.



## Lightest-in-class compact body

The BHT-1500 series has a light, compact and highly portable body weighing just 128 grams, the lightest in the industry among handheld terminals in the same class. This helps maximize productivity as the operators can use the device for lengthy periods with no physical strain on themselves.



## Largest-in-class 2.0-inch colour liquid crystal screen

The BHT-1500's stylish, compact body is equipped with a 2.0-inch QVGQ colour liquid crystal screen, the largest among handheld terminals in its class. This ensures that application screens and product images are displayed very clearly helping reduce operator errors.



## Quick scanning performance

With its unique scanning angle and high performance barcode reader the BHT-1500 series users can scan barcodes while viewing the screen, enabling efficient work in the field.



## Excellent operability. Contoured body with well laid out keys

The ergonomically designed BHT-1500 sits comfortably in your hand and well positioned keys enable single handed use.



## Excellent durability

Since BHT-1500 series is resistant to drops from a height of 2.0 meters, you can use it for daily operation with peace of mind.

## Reliable even when accidents happen

Should the battery be disconnected, the transaction function automatically restores the device to the previous status in the application. The flash file system will retain inputted data without the need for batteries, ensuring reliable device performance and confidence your data will not be lost.



## A microSDHC card can be used as an external memory

When you need to store large files or increased data a microSDHC card can be used providing peace of mind.



# Many convenient functions, enabling easy adoption

## Excellent application compatibility with existing models

BHT-1500 series has excellent compatibility with applications developed for existing models with BHT-BASIC. With the display compatibility mode, applications developed for BHT-900 can be used without changing the display layout settings.

\* Some applications may need revisions.



## Files can be easily transferred by connecting the device via USB to your PC

Data can easily be transferred by simply dragging and dropping. So you can be operational with minimal effort.

\* In MTP mode setting



## eneloop® can be used. Recharging time is reduced by half compared to existing models\*1

In addition to convenient dry-cell batteries, the BHT-1500 can use eneloop rechargeable batteries.\*2 These can be recharged whilst in the device ensuring minimum uptime. The device can be fully recharged in 5 hours - about half time of previous models.\*1

\*1 Compared to the BHT-900 series.

\*2 No dry-cell battery adapter is required.



## Can be connected to a tablet or smartphone via Bluetooth®

\* BHT-1500BB model only

The BHT-1500BB model is Bluetooth HID-enabled, enabling easy data transfer to tablets and smartphones.



## Can be used immediately. The basic operation application "Easy Pack Ad" is preinstalled

"Easy Pack Ad" is a preinstalled application that can be used for collection of data verification and other basic operations.

You can start operations immediately without developing any additional applications.



## 3-year warranty provides peace of mind

DENSO WAVE provides a three-year warranty to customers who have registered on its website, giving peace of mind. Our customer service personnel and sales representatives quickly respond to any issue our customers may experience including device failures and make every effort to ensure that customers can use DENSO WAVE's handheld terminals with confidence.



## BHT-1500 series specification

| Models                                  |  | Batch Model                                                                                                                                                                              | Bluetooth® Model |
|-----------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                         |  | BHT-1505B                                                                                                                                                                                | BHT-1505BB       |
| OS                                      |  |                                                                                                                                                                                          |                  |
| DENS0-OS                                |  |                                                                                                                                                                                          |                  |
| CPU                                     |  |                                                                                                                                                                                          |                  |
| 32bit RISC microprocessor               |  |                                                                                                                                                                                          |                  |
| Memory                                  |  | Flash Memory                                                                                                                                                                             |                  |
|                                         |  | 32MB (Approx. 17 MB for user area)*1                                                                                                                                                     |                  |
| Display                                 |  | Size / No. of dots*2                                                                                                                                                                     |                  |
|                                         |  | 2.0 inch QVGA (240 x 320dots)                                                                                                                                                            |                  |
|                                         |  | Display device                                                                                                                                                                           |                  |
|                                         |  | Liquid crystal dot matrix display (colour)                                                                                                                                               |                  |
|                                         |  | Backlight                                                                                                                                                                                |                  |
|                                         |  | White LED                                                                                                                                                                                |                  |
| Scanner                                 |  | Mode                                                                                                                                                                                     |                  |
|                                         |  | Advanced Scan Plus (CCD)                                                                                                                                                                 |                  |
|                                         |  | Decode Barcode                                                                                                                                                                           |                  |
|                                         |  | EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (Add-on embedded), Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 Databa (r RSS) |                  |
|                                         |  | Minimum resolution                                                                                                                                                                       |                  |
|                                         |  | 0.125 mm                                                                                                                                                                                 |                  |
|                                         |  | Reading reference position                                                                                                                                                               |                  |
|                                         |  | 110 mm                                                                                                                                                                                   |                  |
|                                         |  | Scan Confirmation                                                                                                                                                                        |                  |
|                                         |  | LED in three colors: Blue/red/green, Buzzer, Vibration                                                                                                                                   |                  |
| Keypad                                  |  | The Number of keys                                                                                                                                                                       |                  |
|                                         |  | 21keys (including power key) + Cross-hair cursor key + a trigger key                                                                                                                     |                  |
| Communication                           |  | Optical I/F                                                                                                                                                                              |                  |
|                                         |  | Communication mode                                                                                                                                                                       |                  |
|                                         |  | Infrared ray (IrDA Ver.1.2 [Low Power] physical signaling layer-compliant)                                                                                                               |                  |
|                                         |  | Transmission speed                                                                                                                                                                       |                  |
|                                         |  | ~115.2kbps, 460.8kbps                                                                                                                                                                    |                  |
|                                         |  | Communication distance                                                                                                                                                                   |                  |
|                                         |  | Approx. 0.15 m MAX.                                                                                                                                                                      |                  |
|                                         |  | Bluetooth®                                                                                                                                                                               |                  |
|                                         |  | — Bluetooth®2.1 + EDR (SPP/HID/DUN/GAP)                                                                                                                                                  |                  |
| Card slot                               |  | microSDHC/microSD card (-32GB)x1                                                                                                                                                         |                  |
| Power                                   |  | Main battery                                                                                                                                                                             |                  |
|                                         |  | Alkaline AAA battery x 3 or AAA eneloop® battery x 3                                                                                                                                     |                  |
|                                         |  | Operating time*3                                                                                                                                                                         |                  |
|                                         |  | Alkaline battery 85 hours*4                                                                                                                                                              |                  |
|                                         |  | eneloop® 70 hours*4                                                                                                                                                                      |                  |
| Additional functionality                |  | Clock, Buzzer, Vibration, Battery and voltage indicators                                                                                                                                 |                  |
| Environmental performance               |  | Operating temperature                                                                                                                                                                    |                  |
|                                         |  | -5 to 50°C*5*6                                                                                                                                                                           |                  |
|                                         |  | Security level                                                                                                                                                                           |                  |
|                                         |  | IP54                                                                                                                                                                                     |                  |
|                                         |  | Drop resistance*7                                                                                                                                                                        |                  |
|                                         |  | Drop test from 2.0m/1.2m height over a concrete floor with all 6 sides of the enclosure facing down (60 times total)                                                                     |                  |
| Weight (including AAA eneloop® battery) |  | Approx. 128 g                                                                                                                                                                            |                  |

\*1 The user area includes font file area (approx 400KB). \*2 The liquid panel is made with high-precision technology. Though the number of pixels available is 99.99%, please understand that there is 0.01% chance of the display being scrambled and turned off. \*3 Operating times shown are reference values at room temperature and may vary depending on working conditions. \*4 In the case of once reading per 5 seconds. Backlight level is 1. \*5 Operation temperature of eneloop®. \*6 Zero to 40°C when batteries are being recharged. \*7 Result obtained in a test under regular temperature is shown and not meant as a guarantee.

## Accessories (sold separately)

### ● Cradle for communication and charging

- CU-AU1-15 (USB communications + recharging)
- CU-AR1-15 (RS232C communications + recharging)
- CU-AL1-15 (Ethernet communications + recharging)

| Additional functionality |                                           | CU-AR1-15          | CU-AL1-15            | CU-AU1-15                         |
|--------------------------|-------------------------------------------|--------------------|----------------------|-----------------------------------|
| Communication            | Between BHT and host   Communication mode | RS-232C            | Ethernet(100BASE-TX) | USB2.1 Full speed mode-compatible |
| Charging                 | Charging time                             | Approx. 5 hours    |                      |                                   |
| Size (mm)                |                                           | 110(D)x95(W)x98(H) |                      |                                   |
| Working voltage          |                                           | AC adapter         |                      | Supplied from USB port/AC adapter |

\* The AC adapter is sold separately.

### ● Communication cable

- CBBHT-US2000/C15-4A
- \* BHT-1500 can be recharged by connecting it to a USB charger or other power adapter, or a PC USB port. When recharging the BHT-1500, use a device that satisfies the following output and USB charging specifications.  
Output specifications: DC5±0.25V (power voltage); 1.0 A or higher (power current)  
USB charging specifications: Battery Charging Specification, Rev 1.2

### ● Charger

- CH-A4-15 (4 serial battery charger)

### ● Soft case and others

- SCBHT-900/1500 (soft case)
- WHBHT-1500 (waist case)
- NSBHT-1300 (neck strap)

## Components

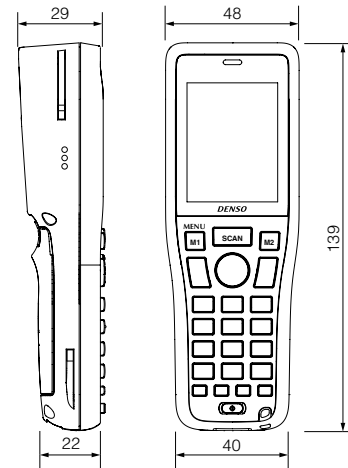
### ● Guidelines for operation ● Instruction manual [HP](#)

### ● Hand strap

\* Batteries and eneloop® are not supplied with this product.

## Dimensions

Unit: mm (for reference only)



## Software (sold separately)

### ● Development tools

- BHT-BASIC4.0 Creator
- BHT-BASIC4.0 transfer utility
- BHT-BASIC4.0 simulator

### ● BHT Advanced Pack II

- BHT Advanced Pack II
- Application production tool/communication tool
- BHT-BASIC4.0 simulator

- Assist Pack Pro (produced by Computer Assist Co., Ltd.)

### ● Preinstalled software

- Easy Pack Ad for BHT-1500

### ● Software for setting

- BHT Setting [HP](#)

[HP](#) Items with this mark are available from the company's homepage (QBdirect) free of charge.

TT Network Integration Europe GmbH  
**DENSO Auto-ID Business Unit**

Immermannstr. 65 B  
 D-40210 Düsseldorf  
 Phone +49 211 88252 450  
 Fax +49 211 88252 502  
 info@denso-autoid-eu.com

For more information, please visit our website  
<http://www.denso-autoid-eu.com>



### To use this product safely

- Before using this product, please read its User's Manual thoroughly for correct use.

● Appearance and specifications are subject to change without prior notice. ● Description stated in this catalogue is as of September, 2015.