DENSO

HANDY TERMINAL

BHT-900

Batch model	BHT-904B
Bluetooth model	BHT-904BB Black
	BHT-904BB White

NEW

Specification

		Batch model	Bluetooth model	
Model		BHT-904B	BHT-904BB Black	BHT-904BB White
OS		BHT-OS		
CPU		32bit RISC		
Memory*1		16MB (User area : 8MB)		
Display	Size	128 × 96 dots		
	Display device	Liquid crystal dot matrix monochrome display		
	Size	32.6 mm × 24.5 mm (1.6 inches)		
	Number of Displayable characters — ANK	21 characters × 12 lines (standard font) / 21 characters × 16 lines (small font)		
	Kanji	8 characters × 6 lines (standard font) / 10 characters × 8 lines (small font)		
	Alphabet and Numeric	16 characters × 6 lines (standard font) / 20 characters × 8 lines (small font)		
	Backlight	White LED		
Scanner	Scanning system	Advanced Scanning (CCD)		
	Readable code	EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (With add-on), Interleaved 2 of 5, Standard 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), RSS (GS1 DataBar)		
	Resolution	0.125 mm		
	Reading conformation	3-color LED (Red/Green/Blue)		
Keypad	Number of keys	28 Keys (include trigger keys)		
Communications	Optical I/F — Communication protocol	Infra-red (IrDA-SIR Ver.1.2〔Low Power〕compliant)		
	Transmission speed	460.8kbps MAX.		
	Transmission distance	Approx. 0.15 m		
	Bluetooth	—	Bluetooth Ver.2.1+EDR class 2 compliant	
	Cable I/F	USB Ver.2.0 (High Speed 480Mbps)		
Power supply	Main power	Alkaline AA battery × 2 or AA eneloop® battery × 2		
	Operation hours*2	Approx. 200 hours*3		
Auxiliary functions		Speaker, resume function, remote wakeup function		
Environment requirements	Operation temperature	−5℃～50℃		
	Dust & splash resistance	IP54		
	Drop resistance*4	1.2 m × 60 times (10 times on each six sides) on a concrete floor		
Mass (including alkaline AA batteries)		Approx. 160 g		

*1: The user area includes font file area (approx 400KB).
*2: Operation hours may vary according to operating conditions.
*3: In the case of 2 times reading per 10 seconds, without Bluetooth communication.
*4: Tested data, not guaranteed.

Options (sold separately)

● Communication unit
· CU-901(for RS232C communication + Unit charger) · CU-921(for USB communication + Unit charger)

		CU-901	CU-921
CU↔BHT	System	Infra-red (IrDA-SIR Ver. 1.2 〔Low Power〕compliant)	Infra-red*1
	Speed	115.2kbps MAX.	115.2kbps/460.8kbps
CU↔host	System	RS-232C	USB 1.1 Full Speed compliant
Charge time		Approx. 11 hours	
Dimensions		D93.5×W75×H49mm	
Power source		AC adapter	Supplied from the connected device/AC adapter

*1: Ir DA-SIR Ver. 1.2 [Low Power] compliant when the communication speed is 115.2kbps or less.
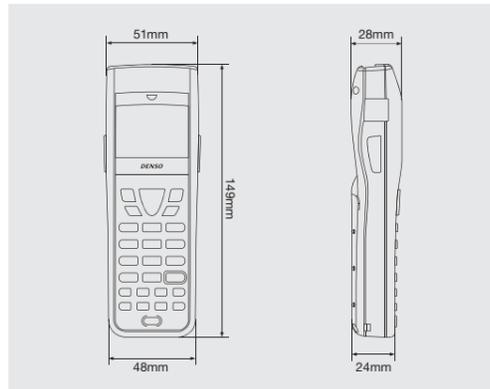
●USB cable
· CBBA-US2000/4-01

●Soft case and strap
· SCBHT-900B (Soft case for BHT-900)
· NSBHT-500 (Neck strap for BHT900)
· WHBHT-900 (Waist case for BHT900)

Dimensions
Unit: mm (All dimensions are approximate values.)

51mm   28mm

149mm

48mm   24mm

Inclued accessories

● Hand belt
● Operator's Guide
● User'sManual **HP↓**
● Quick reference for Easy Pack Ad **HP↓**

Software

●Development tools
· BHT-BASIC4.0 Development Pack (BHT-BASIC4.0 Compiler, BHT-BASIC4.0 Transfer Utility, BHT-BASIC4.0 Remote Debugger*)
· BHT-BASIC4.0 Transfer Utility
· BHT-BASIC4.0 Transfer Utility DLL Pack
· BHT-BASIC4.0 Simulator Library (for BHT-900)
· BHT-BASIC4.0 Program Converter **HP↓**
* BHT-900 is not compatible with the remote debugger.

●BHT Application Development Tool
· BHT Advanced Pack Ⅱ*
* It is scheduled to correspond

HP↓ Items with this mark can be downloaded free from the DENSO WAVE website (QBdirect).

Note regarding the use of the wireless function

■Caution
The frequency range used by this product may also be used by in-plant wireless stations for moving object identification in factory production lines and amateur radio stations (license required), and by specified low power radio stations (license not required) (stations mentioned above will be referred to as "other stations" below), as well as in commercial, industrial and medical devices such as microwave ovens.
①Before using this product, ensure that "other stations" are not being used near by.
②If this product interferes with the communications of "other stations", promptly stop radio wave emissions from the product and contact us as to how to avoid the interference.
③If any other problems concerning wireless communications of this product and/or "other stations" should occur, please contact us.

For more information, visit the our web site.
http://www.denso-wave.com/en/adcd/

DENSO WAVE INCORPORATED

The world's first eneloop® compatible handy terminal for reducing running costs.

You can start using immediately after unpacking. Basic operations software is preinstalled.

Small, lightweight and easy-to-use entry model.

Scanning performance

Superior scanning performance in every situation. Stress-free operability improves working efficiency.

Flexible scanning: remote and touch readable

Scanning from a remote position is available as well as touch-scanning, which can easily read a barcode only by touching the reading window to it.

Even novices can easily use it as they don't need to pay much attention to the scanning position.

Able to scan damaged barcodes

Effaced barcode

Stained barcode

Tall scanning range reduces effects of stain and effacement.

Even obscured, faint, or damaged barcodes can be read smoothly with one scan.

※Some barcodes cannot be read due to their state of deterioration.

High speed scanning and compatibility with wide barcodes

High speed scanning performance of 200 scans/sec enables smooth and continuous barcode reading when checking incoming goods or other similar activities.

It reduces the stress of continuous barcode scanning and the work time at the same time. In addition, "wide barcodes" such as CODE39 of EIAJ labels can be scanned.

Power & Battery

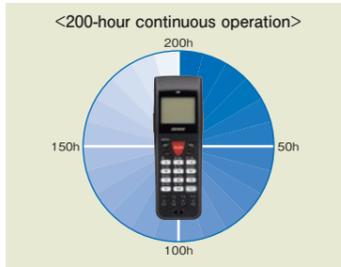The first eneloop® compatibility in the handy terminal products makes eco-friendly operation easy.

Compatible with the "eneloop®" rechargeable batteries

You can use "eneloop®" rechargeable batteries as the main power source. The batteries are friendly to the environment as they can be used repeatedly and they also largely reduce the running costs per operation. Another benefit to using "eneloop®" rechargeable batteries is that unlike the special battery, they are easy to obtain. Of course, ordinary alkaline AA batteries may also be used.

※eneloop® is a registered trademark of SANYO Electric Co., Ltd.

Long battery life of about 200 hours※

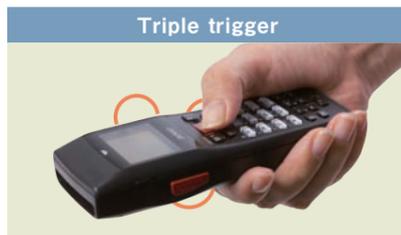<200-hour continuous operation>
200h
150h
100h
50h

Due to its power-saving design, BHT-900 can continuously operate for about 200 hours. No battery replacement or battery charging is required even during long hours of operation.

※In the case of 2 times reading per 10 seconds, without Bluetooth communication.

Design

The design was achieved through ergonomic research into the ways of pressing buttons and holding a terminal during operation

Realizing an ideal form for carrying and operation

Triple trigger

The triple trigger, which enables you to use both your thumb and index finger to scan, is adopted. You can scan barcodes and press keys without changing your grip.

Slim and pocket-sized

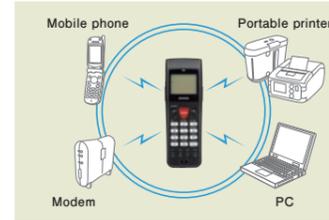You can put it into the breast pocket of your work jacket and carry it easily while doing other work.

Head curve for efficient aiming at a barcode

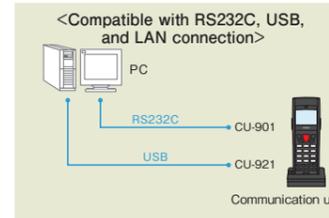The gradual curve to the reading window leads the head naturally to a barcode.

BHT-900 series assists you in every situation.

For inbound/outbound checking and inventory count

Paper-based management of goods is cumbersome especially in inventory count periods. BHT-900 helps you in those periods. Thanks to the preinstalled basic operations software for, you can use the terminal fully from the very day you introduce it.

For sales management of a temporary sales space

BHT-900 is suitable for use in temporary sales spaces such as a stand. Its slim and small body can be placed anywhere even in small space.

For entrance management at an event

Handy terminals are convenient for entrance management at a temporary event space. BHT-900 is light and easy to operate, and women can easily carry one.

For correct replacement of reels

Two-point matching operation is easy with BHT-900, which has preinstalled basic operations software. By reading the codes on the current one and next one at reel replacement, you can prevent wrong reel replacement from the very day you introduce BHT-900.

Communication

Bluetooth® communication

Mobile phone   Portable printer

Modem   PC

● Bluetooth Ver. 2.1 is equipped. The terminal can communicate wirelessly with portable printers, PCs, Mobile phones, etc. Moreover, using a Mobile phone, you can access the terminal through a modem. You can send data and request information such as stock data through it.

Batch communication

<Compatible with RS232C, USB, and LAN connection>

PC

RS232C — CU-901
USB — CU-921

Communication unit

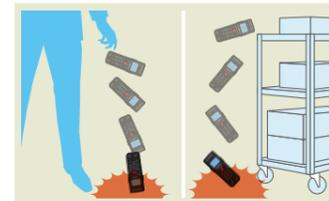● The terminal can communicate with devices in upper hierarchies through the communication unit.

Direct communication using USB connection

● You can connect the terminal directly to a PC using a USB cable. Power supply from the USB terminal is available as well as high speed communication through the terminal, so you don't need to worry about the remaining battery charge.

※Use a recommended USB 2.0 compatible cable.

Durability and environmental resistance

Tough, drop-resistant body

● Supposing it drops from your hand or from a picking wagon and under stricter conditions than actual use, the terminal has been designed to pass a 60-time repeated drop test from a 1.2m height, allowing it to be used free from care.

● The terminal realizes an IP protection level 54 under the IEC international standard. The terminal and the data are protected against water drops and dust.

Compatibility

Seamless replacement of terminals

BHT-8000   BHT-900

● The 8-character indicator (in the standard font) is the same as that on BHT-8000 and keeps a similar appearance. The white backlight supports advanced visibility.

Application development

C development tool(library)

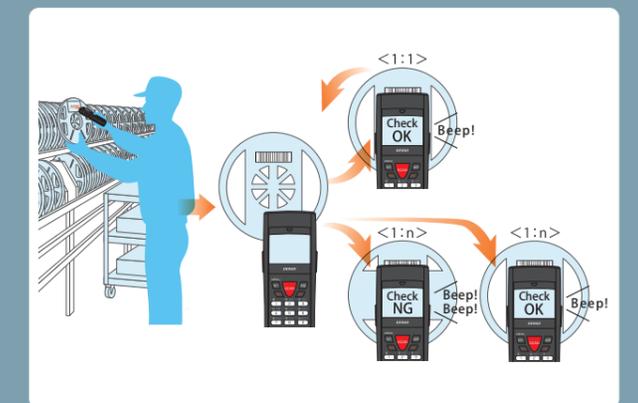● Development is possible by the most popular computer language "C".

Software Easy Pack Ad for BHT-900

Ready to use instantly after turning on. No complicated settings are required due to the preinstalled basic operations software, Easy Pack Ad for BHT-900.
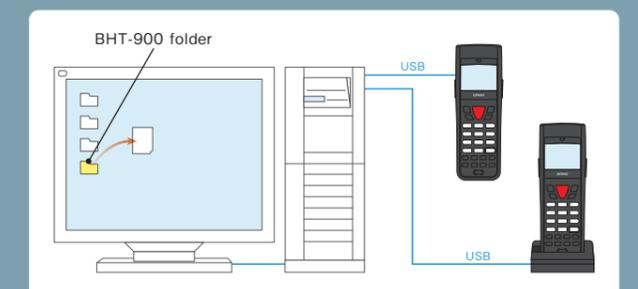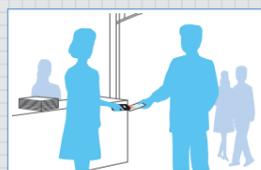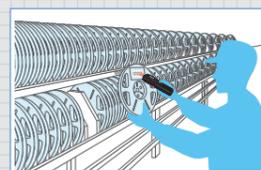
Collecting and matching data immediately

Item list. CSV
"49xxxxx.01"
"49xxxxx.03"
"49xxxxx.08"
"49xxxx.22"
"49xxxxx.26"
"49xxxxx.39"
"49xxxxx.45"

● You can collect data on inventory counts or goods checks from the first day you introduce the terminal.

<1:1>
Check OK   Beep!

<1:n>
Check NG   Beep! Beep!
Check OK   Beep!

● You can do 1:1 and 1:n matching using the first-read barcode as the master data for matching.

Easy data transfer by drag and drop

BHT-900 folder

USB

USB

● You can transfer the data to a PC simply by drag and drop without running a data transfer tool.

※Use a USB-CU (communication unit) if you transfer data every day.
※Drag and drop is available only when connected through a USB-CU or directly through a USB cable.

Useful software enhancements

● You can edit formats for data collection and matching to one familiar to you by using the edit tool distributed for free on the DENSO WAVE website.