DENSO

BHT-300B Series Specifications

			BHT-302B	BHT-303B	BHT-303BB	BHT-303BW	BHT-303BWB
Memory			5 MB(User area approx. 2.2MB)	9 MB(User area approx. 5.8MB)	Undecided		
Display	Resolution		132 x 72 dots				
	Display device		Liquid crystal dot matrix display (Monochrome)				
	Character type	ANK	22 cha. x 9 lines				
		Kanji characters (standard)	8 cha. x 4 lines				
		Kanji characters (small)	11 cha. x 6 lines				
Scanner	Scanning system		Advanced Scan (CCD)				
	Scanning area		420 mm max. (with a distance of 400 mm from label)				
	Readable codes		EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN with add-on codes, Interleaved 2 of 5 CODABAR (NW-7),CODE39, CODE93, CODE128 (EAN-128), Standard 2 of 5, MSI code				
	Resolution		0.125 mm				
	Reading confirmation		2-color LED (red & green), buzzer, vibrator				
Keyboard	Number of keys		26 keys (incl. power switch)+ 2 trigger keys				
Communications	Optical interface	Communication system	Infrared interface (IrDA-SIR Ver. 1.2 [Low Power] compliant)				
		Communication speed	115.2 kbps max.				
		Transmission distance	Approx. 0.15 m				
	Wireless interface	Standard				IEEE802.11b	
		Wavelength				2.4 GHz	
		Transmission distance*1				Indoors: Approx. 75 m Outdoors: Approx. 200 m	
		Modulation method				Spread spectrum communication (Direct sequence spread)	
		Communication speed*1				11/5.5/2/1 Mbps (with auto fallback)	
	Bluetooth				Bluetooth Ver1.1 Compliant Class 2		Bluetooth Ver1.1 Compliant Class 2
	Cable interface		RS-232C (115.2 kbps max.)				
Power supply	Main power		Lithium ion battery cartridge				
	Operation hours		Approx. 135 hours*2				
			——		Undecided		Approx. 24 hours*3
Auxiliary functions			Clock, beeper, vibrator, low battery indication, remote wakeup functions				
Environment equirements	Operating temperature range		-5˚C to 50˚C				
	Dust resistance and splash resistance		IP54				
	Drop resistance strength*4		1.5 m (30 times on a concrete floor)		1.2 m (30 times on a concrete floor)		
Weight			Approx. 230 g		Approx. 240 g	Approx. 250 g	Approx. 260 g

*1: Communication speed and transmission distance may vary according to operating conditions.
*2: When reading twice in 10 seconds and not using the wireless interface.
*3: Operation hours calculated with a ratio of reading to wireless communication to display to standby mode of 1:1:1:20.
*4: Figures are provided for reference only and are not guaranteed.

CU-300 Specifications

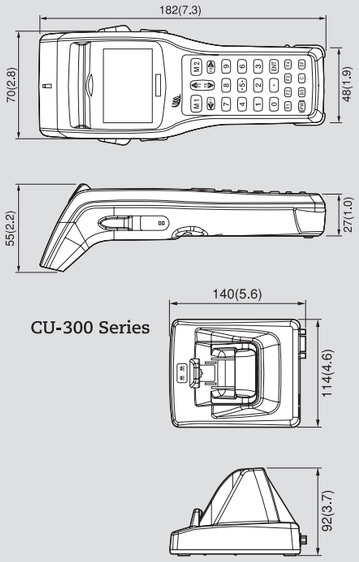
			CU-301	CU-321*1
Communication	BHT←→CU	Communication system	IrDA-SIR Ver.1.2 (Low Power) compliant	
		Communication speed	115.2 kbps max.	
	CU←→Host	Communication system	RS-232C	USB 1.1 Full Speed compliant
Display	LEDs		Power, communication	
Battery charger	Charge time		Approx. 3 hours	Approx. 9 hours*2
Power source			AC/DC adapter	From connected device

*1: Connection may not be possible depending on the type of PC or USB-HUB being used. Prior confirmation of compatibility is required. The AC/DC adapter (sold separately) is required when attempting to recharge the battery while the connected device is turned off or in suspend mode, or when power supply from the connected device is not possible.
*2: Charge time may vary according to the power supply capability of the connected device. Charge time is 3 hours when using the AC/DC adapter

Dimensions

Unit:mm(inch)

BHT-300B Series



CU-300 Series

Accessories

- Hand strap
- Operator's manual
- Lithium ion battery cartridge BT-20L

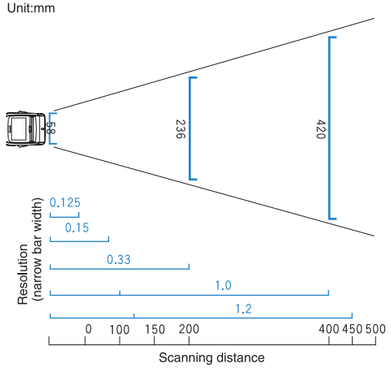
Options (Sold separately)

- Communication units
  CU-301 (RS232C)
  CU-321 (USB)
- CU-311 (LAN)
  (Scheduled for release)

- Main unit battery charger (CH-351)
- Battery charger (CH-201)
- Soft case and hip case (Scheduled for release)

Scanning Performance

Unit:mm



Software

- BHT-BASIC 4.0 development pack
  (BHT-BASIC 4.0 Compiler, BHT-BASIC Remote Debugger, BHT Transfer Utility, cable)
- BHT-BASIC Remote Debugger
- BHT Transfer Utility
- BHT Transfer Utility DLL Pack
- BHT Advanced Pack (BHT Application Generation Package)

*In BHT-7000 series compliant mode

Note regarding the use of the wireless LAN function

■Frequency

The 2.4 GHz frequency range used by this product may also be used in commercial, industrial and medical devices (License required in Japan). Before using this product, ensure that other RF systems are not being used close by. If other mobile ID systems are subjected to electrical interference from this product, promptly change the location that the product is used in, or stop the emission of radio waves from the product. If other mobile ID systems are subjected to electrical interference from this product, or any other problem should occur, please contact your salesperson.

■Types of radio wave and interference distances

24 DS 4

- 24: Indicates wireless equipment operating at the 2.4 GHz bandwidth.
- DS: Indicates DS-SS modulation method application
- 4: Indicates an anticipated interference distance of 40 meters or less.
- DS: Indicates use of all bandwidths, and that mobile ID system bandwidths can be avoided.

- Specifications are subject to change without notice.
- Information in this catalog is current as of May 2004

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DENSO

Barcode Handy Terminal
BHT-300B Series

The New Standard in BHT Scanners

Feature Rich for Robust Flexibility The New Standard in Bar Code Handy Terminals

1 Reading

Utilizing industry-leading reading performance and advanced scan (CCD), the BHT-300B Series achieves touch reading and distance reading of up to 450 mm (when narrow bar width is 1.2 mm).

- Advanced scanning technology improves scanning of wider labels and poorly printed or damaged bar codes.

Quick and easy decoding

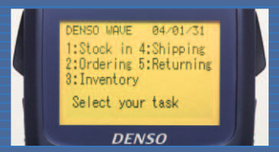
Superior reading in all lighting conditions

2 Viewing

Largest screen in its class

- Choose from a large, easy-to-read font size, or a maximum 11-character x 6-line display (12 dot font Kanji).
- Includes a compliant mode with an 8-character 4-line display for utilizing applications from prior models (BHT-7000/-5000).
- Capable of expanded display and horizontal or vertical display

12-dot font display

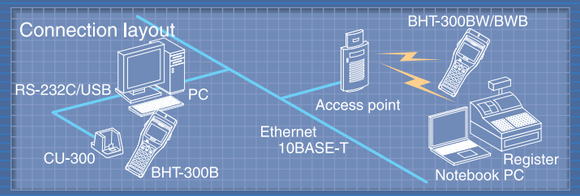


16-dot font display

3 Communication

Built-in wireless communication interface enables connection to an existing LAN

- The BHT-300BW/BWB models are compatible with the global standard IEEE802.11b, enabling wireless communication at a maximum of 11 Mbps.



- The BHT-300BB/BWB models are equipped with Bluetooth, enabling wireless connection to a portable printer.

4 Performance and Quality

Industry-leading impact resistance and superior operating environment features

- The BHT-300B achieves drop resistance (concrete floor) of 30 times at 1.5 m.
- Passes IEC International Standards Protection Class IP54 and reliably shuts out water and dust.

Power-saving design achieves longer operating time

A high capacity lithium ion battery and power-saving design extends continuous operating time and reduces costs by eliminating the need for replacement batteries, as well as the inconvenience of managing battery recharging.

- 135 hours: When reading twice in 10 seconds and not using the wireless interface.
- 24 hours: When reading, wireless communication, display and standby mode is 1:1:1:20 (BHT-300BW/BWB)

Unit:mm(inch)

Barcode Handy Terminal

BHT-300B SERIES

Enhanced Features

Easy-to-use design

The angled scanner head and lightweight body improves user productivity by making the BHT-300B Series easy-to-use, especially for retail, logistics and warehousing applications

Vibrator

The vibrator accurately informs the operator of reading completion and errors, even in noisy operating environments.

Easy-to-operate, Highly Durable Key Pad

Advanced Development Pack

The BHT-300B series is compatible with BHT-BASIC 4.0, which is now equipped with even easier to use functions, with a high level of compatibility with conventional models, and easy transfer of applications.

Remote Wakeup Function

The remote wakeup function enables the BHT-300B series of scanners to be controlled by a PC, as well as facilitating remote maintenance of master files, applications, and operating systems

BHT-300B Series Lineup

Standard Model:	Wireless LAN Model:	Bluetooth™*1 Model:
BHT-300B	BHT-300BW BHT-300BWB	BHT-300BB BHT-300BWB

★: Denso Wave uses the Bluetooth trademark under express license from Bluetooth SIG, Inc., USA.

BHT Advanced Pack

BHT Application Generation Package

Version compatible with BHT-300B is scheduled for release at a later date. This software operates in BHT-7000 compatible mode.

Superior development software, from development to implementation

Product Features

Easy Application Setup

Programming experience is not required. Simply follow the on screen prompts to create your own application

Master File Conversion & Version Management

Master files can be converted using existing CSV, Excel, and Access formats. Master file and OS version management is also facilitated by automatic updates using communication tools.

Automatic Data Transfer

Compatible with automatic data transfer by constantly being on standby. Also LAN and wireless interface compatible.

Compatible with a variety of applications—from stocktaking to picking

Simple accumulation of bar code data enables use in a variety of applications, such as master file selection/reconciliation, etc.

- Stocktaking and warehouse management
- Verification of fail safe measures
- Picking and pre-delivery inspection instruction
- Delivery and receipt inspection

Outline of setup and implementation process

Settings (Expansion) → Implementation

Application Generation Tool (Recommended system requirements)

- Microsoft® Windows® 98SE or Windows® 2000, XP (Home/Professional)
- 200 MHz or higher Pentium-compatible CPU
- Minimum 64 MB of RAM and 32 MB of hard disk space
- CD-ROM drive, 800x600 resolution or higher, COM port

Master File Conversion Tool

The following additional applications are required when converting master files of Access or Excel file types.

- Microsoft® Excel 97/2000/20002
- Microsoft® Access 97/2000/2002

Communication Tool

The following additional applications are required when converting master files of Access or Excel file types.

- Microsoft® Excel 97/2000/20002
- Microsoft® Access 97/2000/2002

★FTP server required when using LAN communication.