

BHT-300Q Series

The Ultimate 2D Code Handy Terminal

BHT-300Q Series Specifications

			BHT-304Q	BHT-304QB	BHT-304QW	BHT-304QWB
Scheduled for release			On sale	Undecided	Undecided	Undecided
Memory			18 MB(User area approx. 12.5 MB)		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		Area sensor			
	Scannable codes	2-dimensional codes	QR Code, Micro QR Code, PDF417, MaxiCode, DataMatrix, EAN, UCC Composite			
		Bar codes	EAN-13/8 (JAN-13/8), UPC-A/E, CODABAR (NW-7), Interleaved 2 of 5, CODE39, CODE128 (EAN-128), RSS			
	Resolution	2-dimensional codes	0.25 mm			
		Bar codes	0.15 mm			
	Scanning area		59 x 44 mm (with a distance of 110 mm from label)			
	Focusing point		110 mm			
	Marker		Area marker			
	Scanning 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™ Ver. 1.1 Compliant (Class 2)		——	Bluetooth™ Ver. 1.1 Compliant (Class 2)
	Cable interface	RS-232C (115.2 kbps max.)				
Power supply	Main power	Lithium ion battery cartridge				
	Operation hours	Approx. 40 hours*2	Undecided			
Auxiliary functions		Clock, beeper, vibrator, low battery indication, remote wakeup				
Environment requirements	Operating temperature range		-5°C to 50°C			
	Dust resistance and splash resistance		IP54 (JIS splash proof)			
	Drop resistance strength*3		1.2 m (30 times on a concrete floor)			
Weight			Approx. 235 g	Approx. 245 g	Approx. 255 g	Approx. 265 g

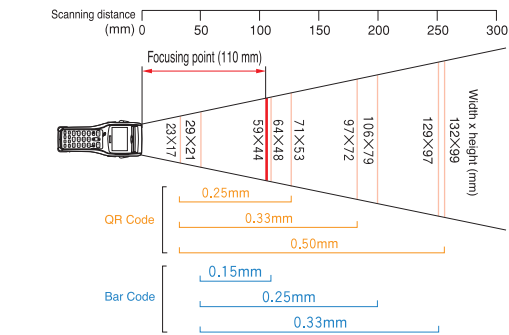
*1: Communication speed and transmission distance may vary according to operating conditions.
*2: When scanning twice in 10 seconds and not using the wireless interface.
*3: Figures are provided for reference only and are not guaranteed.

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
		Power, communication	
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.

Scanning Performance

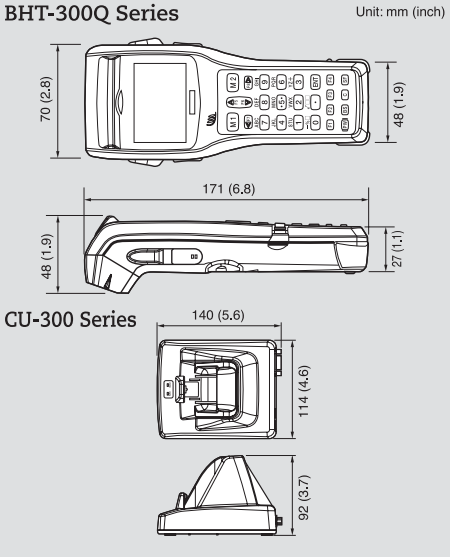


•The shape of the projected area marker differs according to the original target market.
This hand-held scanner with built-in area marker should not be used in the United States and Canada as it does not meet the specifications required for use there.
•Specifications are subject to change without notice.
•Information in this catalog is current as of July 2004.

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).
1. Before using this product, ensure that other RF systems are not being used near by.
2. If other mobile ID systems are subjected to electrical interface from this product, promptly change the location that the product is used in, or stop the emission of radio waves from the product.
3. If other mobiles ID systems are subjected to electrical interface from this product, or if any other problem should occur, please contact your salesperson.
- Types of radio wave and interference distances
Indicates wireless equipment operating at the 2.4 GHz bandwidth
Indicates DS-SS modulation method application.
Indicates an anticipated interference distance of 40 meters or less.
Indicates use of all bandwidths, and that mobile ID system bandwidths can be avoided.

Dimensions



Accessories

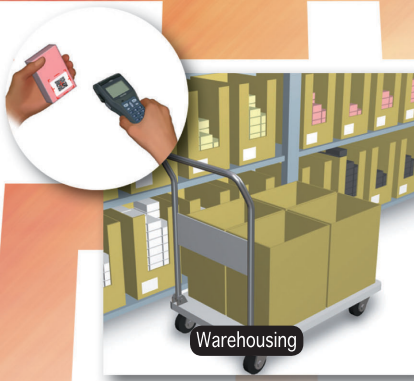
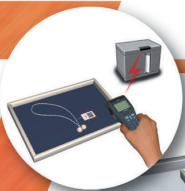
- Hand strap ● Operator's manual
- Lithium ion battery (BT-20L)

Options (Sold separately)

- Communication units
CU-301 (RS-232C)
CU-321 (USB)
CU-311 (LAN)
(Scheduled for release)
- Main unit battery charger (CH-351)
- Lithium-ion battery recharger (CH-201)
- Soft case and hip case (Scheduled for release)

Software

- BHT-BASIC 4.0 Development Pack
(BHT-BASIC 4.0 Compiler, BHT-BASIC 4.0 Remote Debugger, BHT-BASIC 4.0 Transfer Utility, cable)
- BHT-BASIC 4.0 Transfer Utility
- BHT-BASIC 4.0 Transfer Utility DLL Pack
- BHT-BASIC 4.0 Program Upgrade Utility
Tool for upgrading programs written with BHT-BASIC 3.6 to BHT-BASIC 4.0
*: Can be downloaded free-of-charge from the Denso Wave website (www.denso-wave.com).



Improved Features Offering Enhanced Usability and Application

Scanning

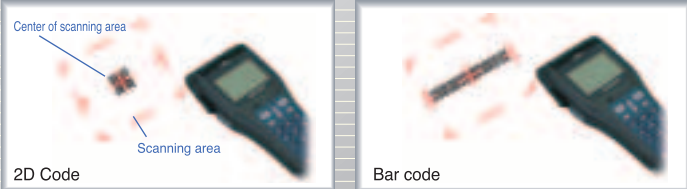
Outstanding Scanning Performance

- Scans at twice the speed* of conventional scanners.
*: When scanning up to 150 characters of QR Code in high-speed scanning mode.
- Easily scans poorly printed and damaged 2D code.



Superior Operability

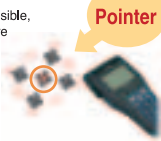
- A area marker clearly indicates the scanning area.



Wide Range of Scanning Features

Target Pointer Mode

Pinpoint scanning is possible, even if multiple codes are in the scanning area.



Multiple bar code scanning mode

Possible to scan multiple bar codes in a single scan



Bar code scanner mode

High-speed scanning comparable with a bar code scanner



Simultaneous scanning of multiple QR codes

Possible to scan multiple QR codes in a single scan



Industry-leading impact resistance and superior operating environment features

- The BHT-300Q series of scanners achieve drop resistance (concrete floor) of 30 times at 1.2 m.
- Passes IEC International Standards Protection Class IP54 and reliably shuts out water and dust.



Power-saving design achieves longer operating time

- The unique lithium-ion, low-power battery designed by Denso Wave achieves continuous operating time of up to 40 hours*.

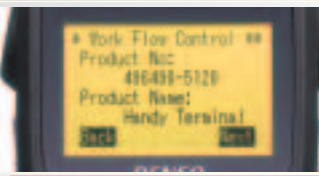
*: When scanning up to 150 characters of QR Code in high-speed scanning mode.

Largest screen in its class

- Capable of displaying a range of fonts on the wide liquid crystal display.
- The bright backlight makes the BHT-300Q easy to use, even in dark conditions.

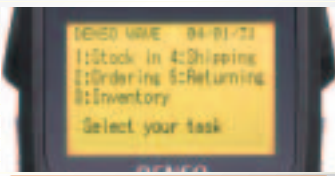
12 dot font mode

Easily displays large amounts of information



16 dot font mode

Large, easy-to-read font size



Bright backlight!

Performance and Quality

Viewing



70 (2.8)

170 (6.8)



Unit: mm (inch)

2D code Handy Terminal BHT-300Q S E R I E S

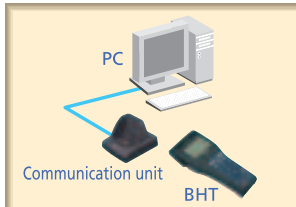


Communication

4 communication interfaces to suit a range of applications and work environments

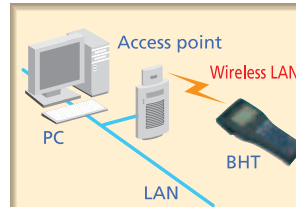
BHT-300Q

Basic (batch-processing) model: Host data communication via a communication unit.



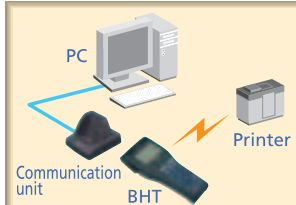
BHT-300QW

Basic model with wireless LAN: Real time communication via a wireless LAN.



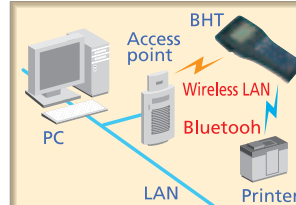
BHT-300QB

Basic model with Bluetooth module: Real time wireless communication with portable printers and PCs at short-range.



BHT-300QWB

Basic model with Bluetooth module and wireless LAN: Complete wireless control of all operations, from database updates to label printing.



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

Enhanced Features

Vibrator

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

Easy-to-operate, highly durable keypad



Advanced Development Pack

The BHT-300Q series is compatible with BHT-BASIC 4.0, which is now equipped with even easier to use functions.

Remote Wakeup Function

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

BHT-300Q Series Support Software

Outline of setup and implementation process

