

Handheld Wireless Terminals
[BHT-1300 Series]



Screens show simulated images

EASY TO OPERATE

Gives you the flexibility of a PDA, with the power of a terminal

3
years

3-year
warranty



2-D model
BHT-1306QWB



1-D model
BHT-1306BWB

WHAT SETS THE BHT-1300 APART FROM OTHER TERMINALS?



Ideal for field operations

- More than 15% thinner, lighter and smaller than previous model*
 - Ergonomic design allows comfortable operation despite compact size
 - Dome-shaped keys can be operated even when wearing gloves
- *Compared to BHT-800Q 2-D model with thin battery



Robust and reliable

- Withstands being dropped from a height of 2 meters and operates from -4 to 122 °F (-20 to 50 °C)
- Easy data backup to microSDHC
- Battery start-up for emergency situations (requires optional battery adapter)



Reads 2-D codes from any angle within 360°, for quicker operation*

- Smooth 360° reading of 2-D codes, using the latest algorithms
 - Reduces reading time up to 30% over 1-D models
- *2-D model only



Comprehensive support system available anywhere in the world.

- Comprehensive worldwide support system
- Can display English, Japanese, Chinese, Korean and Thai



Display is easy to read, even in bright sunlight

- Large, super-bright LCD display
- Wide viewing angle offers enhanced visibility when viewed from the side



3-year warranty ensures peace of mind

- Three-year warranty available with registration on DENSO website* (One year for consumables and moving parts)

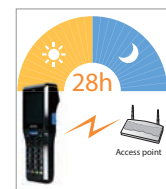
*For complete details, visit

www.denso-wave.com/en/adcd/member/warranty/regist.html



Long operation between charges, even when unit is kept online

- DENSO power-saving design allows 28 hours of continuous operation*—the longest in its class
 - Complies with latest wireless security standards, to prevent illegal data access
- *When ratio of reading to wireless communication, rewriting of screen and holding duration is 1:1:1:20, with a standard battery in 2-D models.



WHAT SETS DENSO APART FROM THE COMPETITION?

Years of experience

DENSO has been a pioneer and industry leader in automatic data capture since 1978, and has the largest number of units currently in use.

Long-term support

Product supplies are available for more than five years after launch, regardless of whether a model is discontinued.

Reliable, rugged construction

DENSO designs every one of its data-capture products to withstand rough treatment and harsh environments.

Superior engineering prowess

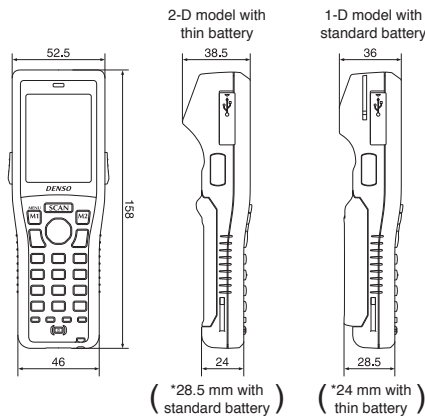
DENSO is the company that developed the revolutionary QR Code®, now used in virtually every industry worldwide.

DIMENSIONS

Ultra-light compact body

- Length — 158 mm
- Thickness — 24 mm
- Weight — 188 g*

*With thin battery



SOFTWARE

Preinstalled software

- Easy Pack Ad for BHT-1300

Development tools

- BHT-BASIC 4.0 Development Pack
- BHT-BASIC 4.0 Compiler
- BHT-BASIC 4.0 Remote Debugger
- BHT-BASIC 4.0 Transfer Utility
- BHT-C software development kit

HTML Browser

- BHT Browser

Online system emulator

- BHT Term Emulator

Setup Software

- BHT Setting

Operation support software

- BHT Manager

Items with this symbol are available free of charge from www.denso-adc.com

COMPONENTS

- Hand strap
- Guidelines for operation

- Instruction Manual

*Battery and battery cover not supplied

OPTIONAL ACCESSORIES (sold separately)

Transmission unit (cradle) for data communication between BHT unit and higher-level devices

- CU-1301 (RS-232C communications and recharging)
- CU-1311 (Ethernet communications and recharging)
- CU-1311 (Ethernet communications and recharging)
- CU-1321 (USB communications and recharging)



	CU-1301	CU-1311	CU-1321
Communication mode		Ethernet (10BASE-T)	USB1.1 Full-speed compliant
Size (mm)	109 (D) x 95 (W) x 111 (H)		
Power supply	AC adapter		USB port/AC adapter

Charger

- CH-1104 4-battery serial charger
- CH-1354 4-unit serial charger

Cases

- SCBHT-1300 (soft case)
- WHBHT-1300 (waist case)

Cable

- USB cable for PC-BHT
- *This cable allows both communication between a PC and BHT unit and recharging. For daily communications and recharging, use cradle above instead.

Batteries/battery adapters

- BT-130LA-C (thin battery and battery cover)*
- BT-130L-C (standard batteries and battery cover)
- BT-130LA (thin battery)*
- BT-20LB (standard batteries)
- BT-1300 (adapter for dry cell battery)
- *Not available in all countries. Contact your dealer to inquire about availability.

EASY TO USE IN DISTRIBUTION OPERATIONS



- Can be comfortably held and operated for long periods of time
- 360° reading capability drastically cuts inventory time

EASY TO USE IN LOGISTICS AND MANUFACTURING APPLICATIONS



- Round-the-clock online usability, with IEEE 802.11 b/g/n high-speed performance
- Robust, durable design and construction allows trouble-free use in harsh environments

BHT-1300 SERIES SPECIFICATIONS

			2-D model		1-D model	
			BHT-1306QWB		BHT-1306BWB	
OS			BHT-OS			
CPU			32-bit RISC microprocessor			
Memory			Flash ROM ¹ 64 MB (45 MB for user area)			
Display	Resolution ²		QVGA (240 x 230 dots)			
	Display		Liquid crystal dot matrix (color)			
	Displayable characters ³	16-dot font	15 2-byte characters x 20 rows, 30 1-byte characters x 20 rows			
		24-dot font	10 2-byte characters x 13 rows, 20 1-byte characters x 13 rows			
Backlight		White LED				
Scanner	Scanning system		Area sensor		Advanced Scan Plus™ (CCD)	
	Readable Codes	2-D codes	QR Code®, micro QR Code, SQR, iQR, PDF417, micro PDF417, MaxiCode, Data Matrix (ECC200), EAN.UCC Composite (GS1 DataBar Composite)		-	
		1-D codes	EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (add-on embedded), Interleaved 2 of 5, Codabar (NW-7), Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS)		EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (add-on embedded), Interleaved 2 of 5, Codabar (NW-7), Code 39, Code 93, Code 128, Standard 2 of 5, GS1 DataBar (RSS)	
	Minimum resolution	2-D codes	0.167 mm		-	
		1-D codes	0.125 mm			
	Scanning distance		100 mm		50 mm	
	Maker		Area guide maker		-	
	Scan confirmation		LED (three colors: red, green, blue), speaker, vibration			
Key input			Number of keys 22 (including power key) + crosshair cursor key + 2 trigger keys			
Communication	Optical I/F	Communication mode	Infrared light (IrDA Ver. 1.2 [low power] physical signaling layer-compliant)			
		Transmission speed	Max. 115.2 Kbps, 460.8 Kbps			
		Communication distance	Max. approx. 0.15 m			
	Wireless LAN	Suitable standard	IEEE 802.11b/g/n-compliant			
		Frequency	2.4 GHz			
		Transmission speed ⁴	IEEE 802.11b: 11/5.5/2/1 Mbps; IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps; IEEE 802.11n: 65/58.5/52/39/26/19.5/13/6.5 Mbps			
		Communication distance ⁴	Indoors: approx. 75 m; outdoors: approx. 200 m			
		Access method	Infrastructure mode, ad-hoc mode			
	Security		WEP40, 128, WPA-PSK (TKIP), WPA2-PSK (AES), WPA-1x (TKIP/EAP-TLS, PEAP), WPA2-1x (AES/EAP-TLS, PEAP) 802.1x (EAP-TLS, PEAP)			
	Bluetooth		Bluetooth Ver 2, EDR Class 2			
Cable I/F		USB 2.0 (USB micro B)				
Card slot			microSDHC (max. 32 GB)			
Power	Main battery		Lithium-ion battery or 3 AAA alkaline batteries (requires optional battery adapter)			
	Operating time ⁵	Standard battery: approx. 95 hrs Thin battery: approx. 55 hrs ⁶		Standard battery: approx. 98 hrs Thin battery: approx. 57 hrs ⁶		
		Standard battery: approx. 28 hrs Thin battery: approx. 15 hrs ⁷		Standard battery: approx. 30 hrs Thin battery: approx. 16 hrs ⁷		
Additional functionality			Clock, speaker, vibrator, battery and voltage indicators, keypad backlight, remote wakeup			
Environmental performance	Operating temperature ⁸		-4 to 122 °F (-20 to 50 °C)			
	Security level		IP54			
	Drop resistance ⁹		Drop from 1.2 m onto concrete floor 10 times each on all 6 sides (total 60 times)			
Weight			With thin battery: approx. 188 g; with standard battery: approx. 206 g			

1. Memory (approx. 400 KB) for font file area included in user area.
2. LCD manufactured with high-precision technology. Number of available pixels is 99.99% (max. 0.01% of pixels may be missing or turned off).
3. Device comes with 16- and 24-dot fonts already set up; 30-dot font, 40-dot font, standard font and small font can also be set up.
4. Transmission distance and speed are theoretical values and may differ according to operating environment.
5. Given operating times are for room temperature; actual operating hours may vary according to environment.
6. With one 5-second reading pass and backlight level 1.
7. When ratio of reading to wireless communication, rewriting of screen and holding duration is 1:1:1:20 under continuous wireless operation and backlight level 1.
8. 32 to 104 °F (0 to 40 °C) when batteries are being recharged.
9. Experimental value at room temperature; not guaranteed.



BHT-1300 Web page

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