

DENSO

1D・2D code scanner/01.02

1D・2D Code Handy Terminal
BHT-100 SERIES



SPECIFICATIONS

Item	BHT-103Q	BHT-103QF	BHT-102B	BHT-102BF
Controller	CPU		32bit RISC	
	Memory	8MB		4MB
Display	Display device		FSTN liquid crystal display (4 gray shades)	
	Size		200 dot x 320 dot	
Capability ¹	Alphanumeric		16 char x 25 lines	
	KANJI <small>(small)</small>		16 char x 25 lines (half width 33 char x 25 lines)	
	KANJI <small>(standard)</small>		12 char x 19 lines (half width 25 char x 25 lines)	
	Touch screen		YES	
	Back light		YES	
Scanner	Method	Area sensor	Advanced ⁴ scanning	
	Scanning-area(reading width)	60mm x 44mm (at the distance 90mm)	380mm (reading widow 50mm)	
Readable codes	1D	EAN-8/13, UPC-A/E, CODE39, CODABAR, ITF CODE128 EAN-128	EAN-8/13, UPC-A/E, CODE39, CODABAR, ITF CODE128 UPC/EAN with supplemental CODE93, STF(Standard 2 of 5) EAN-128	
	2D	QR Code, Micro QR Code, PDF417, Maxi Code, Data Matrix		
Communications	Reading Confirmation		2 color (red and green) LED, buzzer, vibrator	
	Optical I/F Method		Infra-red (IrDA-SIR1.0 compliant)	
Connector I/F	Speed		115.2kbpsMAX	
	Method		RS-232C	
RF I/F	Speed		115.2kbpsMAX	
	frequency	—	2.4GHz	2.4GHz
	distance ²	—	Indoor : 75m(82yd) Outdoor : 200m(230yd)	Indoor : 75m(82yd) Outdoor : 200m(230yd)
	speed ²	—	1.6MbpsMAX	1.6MbpsMAX
Operation hours ³		Approx. 20 hours	Approx. 40 hours	
Auxiliary Functions				
Power Supply Main battery				
Weight (incl. Battery)				
Environment		Approx. 280g (99oz)	Approx. 300g (10.6oz)	Approx. 280g (99oz)
Requirements		Approx. 300g (10.6oz)	Approx. 300g (10.6oz)	

*1. In each capability, double-width, double-height, and double-width height are adjustable

*2. Communication distance and speed depend on a working environment.

*3. Two times scanning of QR code or barcode in 10 seconds.

*4. Scanning at the distance of 400mm. (Narrow bar width over 1.0mm and 500lxs.)

Accessories

- Hand Strap
- Touch Pen
- Lithium-ion Battery Cartridge

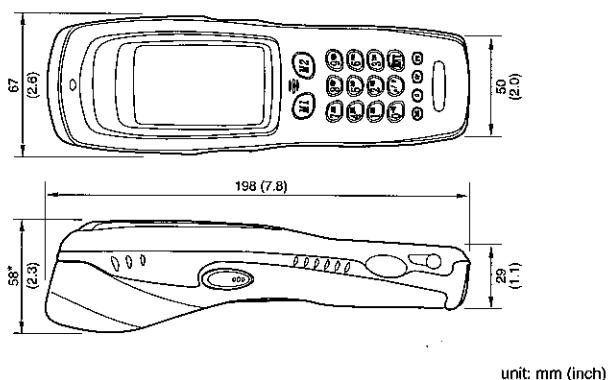
Options (sold separately)

- Optical Charging Communication Unit CU-7001
- Optical Non-charging Communication Unit CU-7002
- Lithium-ion Battery Cartridge charger C-700
- Lithium-ion Battery Cartridge B-70L

Software (sold separately)

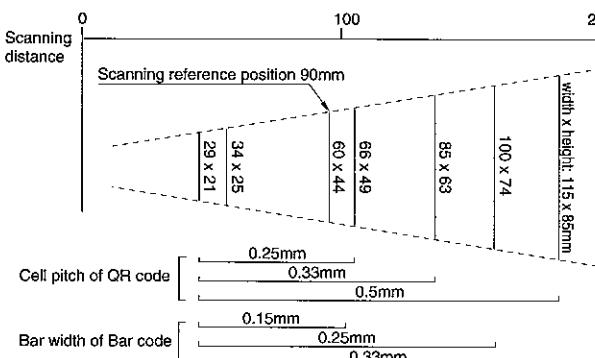
- BHT-BASIC 3.5 Compiler
To develop application programs for BHT-100 series
- Ir-transfer Utility C and E
To transmit data between PC and BHT-100 series
- Ir-transfer Utility C and E DLL pack
To develop applications that features communication functions with BHT.

Dimensions (BHT-103Q: slant beam type)



*It depends on a model. (57mm for BHT-102B)

Scanning distance and area (BHT-100Q for 1D and 2D)



For safe use

- Before use, read the user's manual carefully

● Appearance and specifications are subject to change. ● Information in this catalog is current as of March 2001

For details of QR code and its scanners, refer to the following web-site
<http://www.denso.co.jp/EAP>
<http://www.qrcode.com>

Manufacturer: **DENSO WAVE INCORPORATED**

DENSO WAVE INC. was formed on 1st October 2001
from DENSO's Automatic Data Capture Division.

CAUTION
 LASER LIGHT-DO NOT STARE INTO BEAM
 1mW MAXIMUM OUTPUT; 650nm LASER
 CLASS II LASER PRODUCT
 THIS DEVICE COMPLIES WITH 21 CFR CHAPTER 1, SUBCHAPTER J.

3.10 Radio Interface

Item		Specifications
General	Certification	ETSI ETS 300.328 in European Union FCC Part 15 Subpart C in United States
	Radio Type	Spread Spectrum, Frequency Hopping
	Frequency Range	2400MHz ~ 2483.5MHz
	Data Rate	1.6Mbps(main) / 800kbps(back off) (The data rate is automatically controlled)
	Modulation Type	4FSK(main) / BFSK(back off) (The modulation is automatically controlled)
	Hopping Channels	15
	Communication distance(reference value) *	200m in open space 75m in office environments
Transmitter	Output Power	+ 20dBm EIRP
	Channel Spacing	1MHz
	Spurious Emissions	-50dBm MAX.

* Communication distance is reference value in the place that get an unobstructed view.
Communication distance depends on operating environment.

Notes for Radio Communication

- (1) Make sure that the intended environment is free of the interference factors and actually capable of supporting link operation.
- (2) Do not cover the antenna section by hand.(figure 3.)
Doing so may result in communication failure.
- (3) Environmental factors that can also interfere with link operation include metallic objects in the vicinity of the path.

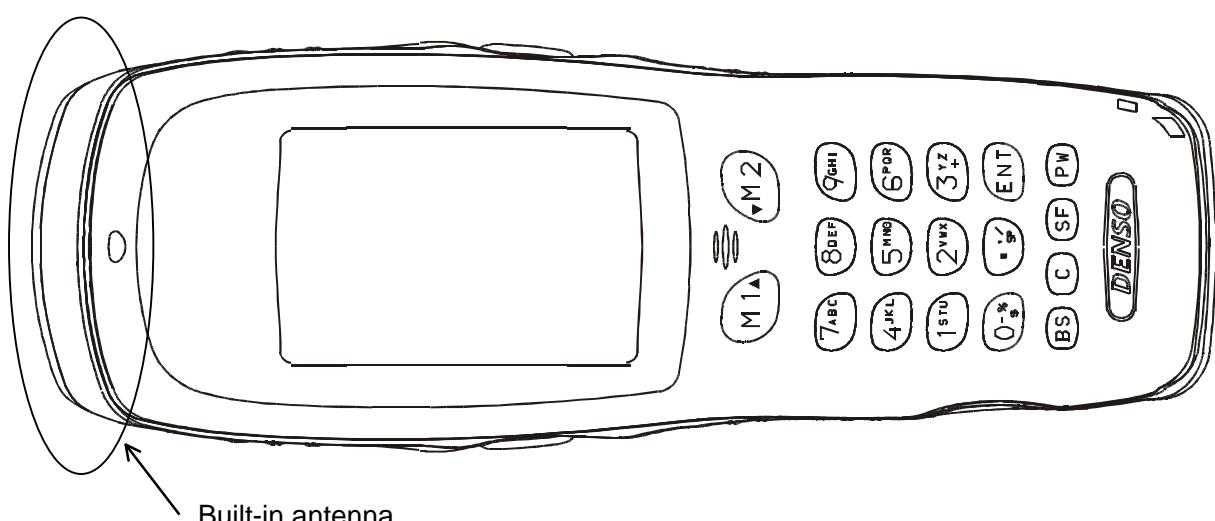


Figure 3. Built-in antenna section