DENSO
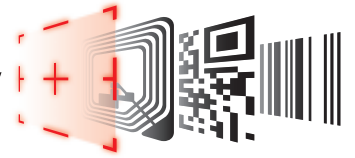
Member of the TOYOTA Group

Superior ID-Technology

BHT-8000 Series

Mobility and Functionality in Perfection

BHT-8000 Series: with the largest display and largest RAM in its class.

This mobile bar code terminal makes reading bar codes as fast and easy as never before. The large liquid crystal display and the excellent technical possibilities make scanning more comfortable than ever.

Impressive ability to read difficult bar codes

- Fitted with an advanced scanning system for processing broader, high-density labels and low PCS labels

Improved long-range reading capability

- Scanning range
  max. 250 mm (BHT-8000/8100)
  max. 400 mm (BHT-8000D)

Viewing

Large liquid crystal display for better readability

- 128 x 64 dot display allows you to configure the display to suit your needs
- Maximum 10 lines with 21 characters each

Performance and Quality

Excellent functions for versatile applications

- Trigger switches on both sides
- Large "magic keys" for easy use
- Resin coated keys prevent letters fading
- Compact body with wide key pitch

Larger RAM for secure data capture

- Maximum 9 MB RAM
- Flash file system for reliable backup

Compact, slim body enhances use for long periods of time

- The pocket-sized device is light, portable and user-friendly

CCD (Charged Coupled Device) Technology

- No moving parts
- Particularly robust

Vibrator for reliable read confirmation

Besides LED and beeping functions the device is also equipped with a vibrator that gives reliable confirmation of successful read processes even in a noisy working environment.

Technical Data BHT-8000

Controller	CPU	
	Memory	
Display	Size	
	Display device	
	Capability	
	Alphanumeric Kana	
	Kanji	
	Back light	
Scanner	Method	
	Scanning Area	
	Width of reading window	
	Readable Codes	
	Resolution	
	Readable Direction	
	Reading Confirmation	
Key input	Number of keys	
Communications	**Optical I/F**	
	Method	
	Speed[5]	
	Distance[5]	
	Wireless I/F	
	Standard	
	Frequency	
	Distance[5]	
	Conversion method	
	Cable I/F	
Power supply	Main battery	
	Operation hours[6]	
Auxiliary functions		
Weight		
Environment Requirements	Operating Temperature	
	Water proof	
	Shock resistant	

(1): Scanning from a range of 290 mm (narrow bars of at least 1.2 mm, per
(2): Scanning from a range of 400 mm (narrow bars of at least 1.2 mm, per
(3): Scanning from a range of 300 mm (narrow bars of at least 1.2 mm, per
(4): Equipped profile/GAP, SDAP, SPP, DUNP.
(5): Maximum range and speed may vary depending on the working condi

Multifunctional

Available models

- **BHT-8044**
  Optimum readability for touch scanning

- **BHT-8044D**
  Suitable for a broad range of reading operations, from touch scanning to reading codes over greater distances

- **BHT-8048D**
  equipped with 8 MB RAM

- **BHT-8048DB**
  With Bluetooth™ for easy to use wireless transfer

- **BHT-8144**
  Model for easy desktop scanning (angled scanning beam)

Bluetooth is the registered trademark of Bluetooth SIG Inc. and is used under licence by Denso Wave.

Software for the BHT-8000 Series

Development and data transfer tools

- BHT-BASIC 3.6 Compiler
- BHT-BASIC Remote Debugger
- IR Transfer Utility C
  (for transfer via RS-232C interface and infrared)
- Easy Pack Pro

	BHT-8044	BHT-8044D	BHT-8048D	BHT-8048DB	BHT-8144
	32 bit RISC micro processor				
	4.5 MB (User area 2.5 MB)	4.5 MB (User area 2.5 MB)	8.5 MB (User area 6.3 MB)	9 MB (User area 6.1 MB)	4.5 MB (User area 2.5 MB)
	128 x 64 dots				
	Liquid crystal dot matrix display				
	21 chars x 8 lines (regular font), 21 chars x 10 lines (small font)				
	8 chars x 4 lines (regular font), 10 chars x 5 lines (small font)				
	LED				
	Advanced scanning				
	260 mm max [1]	340 mm max [2]	340 mm max [2]	340 mm max [2]	260 mm max [3]
	39 mm	39 mm	39 mm	39 mm	–
	EAN-13/8, UPC-A/-E, UPC/EAN (with add on code), Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128 (EAN-128), Standard 2 of 5				
	0.10 mm	0.15 mm	0.15 mm	0.15 mm	0.125 mm
	Straight	Straight	Straight	Straight	Slant
	Red, green 2 color LED, beeper and vibration				
	24 keys (including power button) + 2 magic keys + 2 trigger keys				
	Infrared (IrDA-SIR Ver. 1.2 (Low Power) compliant)				
	115.2 Kbps max				
	Approximately 0.15 m				
	–	–	–	Bluetooth Ver 1.1 PowerClass 2 [4]	–
	–	–	–	2.4 GHz band	–
	–	–	–	5 m	–
	–	–	–	DSSS (frequency hopping)	–
	RS-232C (115.2 Kbps max)				
	Two AAA alkaline batteries or Ni-MH battery cartridge (selective option)				
	Ni-MH battery cartridge: Approx. 30 hours Two AAA alkaline batteries: Approx. 80 hours (Two times scanning of bar code in 10 seconds)[7]				
				Ni-MH battery cartridge: Approx. 6 hours Two AAA alkaline batteries: Approx. 8 hours[8]	–
	Calendar clock, beeper, vibrator, resume function, low-battery indication, remote wakeup function				
	Approx. 160 g				
	Operating: –5 to 50°C				
	JIS drip-proof II				
	Six surfaces of unit, five times each (total 30 times) from 1.2 m (47.2 inch) onto concrete floor[9]				

ripheral brightness min. 500 lux).
ripheral brightness min. 500 lux).
ripheral brightness min. 500 lux).

tions.

(6): Operation without mains power may vary depending on the working conditions.
(7): When using the BHT-8000D Series in energy-saving mode.
(8): A 30-second cycle: Scanning (1 second), data transfer, display (1 second), standby.
(9): Test value, not guaranteed.
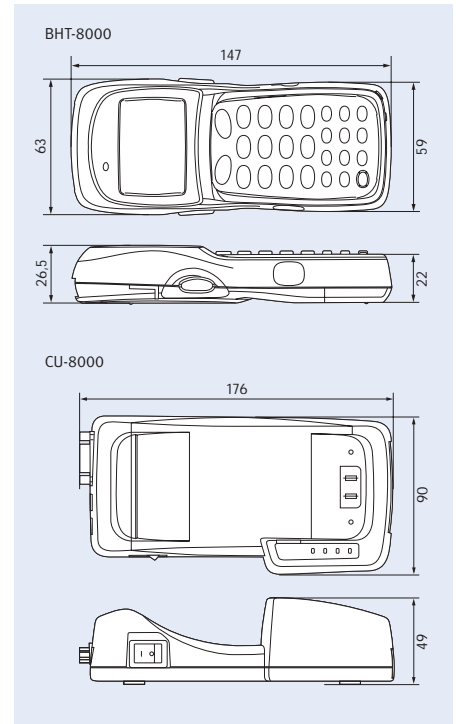
Accessories

- Hand strap

Software (not supplied)

- BHT-BASIC Extension Pack
  (BHT-BASIC 3.6 Compiler, BHT-BASIC
  Remote Debugger, IR Transfer Utility C,
  cable)
- BHT-BASIC 3.6 Compiler
- BHT-BASIC Remote Debugger
- IR Transfer Utility C
- DLL Pack for IR Transfer Utility C
- Easy Pack Pro

Optional Accessories (not supplied)

- Optical data communication unit
- Battery charger
- B-65N nickel hydrogen battery B-65N
- Manual pack
- Soft case/belt case
- Neck strap

Dimensions (in mm)

BHT-8000

147
63
59
26.5
22

CU-8000

176
90
49

Technical Data CU-8000

			CU-8001	CU-8002	CU-8021[1]	CU-8011[2]
Communications	BHT ←—→ CU	Method	IrDA-SIR Ver 1.2 (Low Power) compliant			
		Speed	115.2 Kbps MAX			
	CU ←—→ Host	Method	RS-232C		USB 1.1 Full-Speed compliant	Ethernet
		Connector	Dsub-9P		USB B Type receptacle	RJ-45
Status indicator	LEDs		4[3]	–	4[3]	4[3]
Battery Charger	Charge time	Battery loaded in BHT-8000 (D)	8-hour	–	8-hour	
		Battery alone	8-hour	–	8-hour	
Power source			AC/DC adapter	From a connection part	From a connection part	AC/DC adapter

(1): The attempt to make a connection could fail depending on the PC or USB hub used.
First check if devices are compatible. The AC/DC adapter (not included in the scope of delivery) is needed for charging and discharging the batteries if power is not fed from the connected device, for example because it is switched off or in standby mode.
(2): Available shortly.
(3): ON, data transfer, BHT charging, battery charging.

Company Stamp