

DENSO

MODEL
BHT-5000
BAR CODE HANDY TERMINAL



Full Functions Packaged in a Com

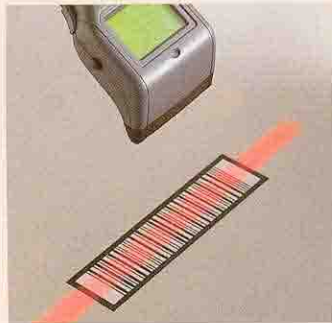
MODEL BHT-5000 BAR CODE HANDY TERMINAL

Wider Bar-Code Reading

Touching the scanner to the bar codes allows you to read bar codes with a width of up to 70 mm. Positioning the scanner a short distance away from the bar code allows you to read bar codes with a maximum width of 280 mm*1. In addition, visibility of the bar-code-reading-guide light has been enhanced.

NOTE:

*1 When reading bar codes with a width of under 1.2 mm, reading distance of 200 mm, and ambient brightness of 500 luxes (fluorescent lighting) is possible.



Large LCD

The number of characters that can be displayed has been increased 2.6 times when compared with the BHT-2000 back light function is provided as a standard feature.



Two Types of Power Supply Ensure Longer Operation

Power supply can be selected from either a nickel-hydrogen-battery cartridge or two 1.5 V size-AA batteries. The rechargeable battery cartridge provides approx. 20 hours of operation whereas the AA batteries provide 100 hours of operation.*2

NOTE:

*2 When reading bar codes twice per 10 seconds.

Magic Keys-Easier and More Efficient

The hand terminal is available with two magic keys to which various functions can be assigned for increased efficiency. Frequently used functions such as the trigger switch used during bar code reading and/or ENT key can be assigned to the magic keys.

Large Memory: up to 2 Mbytes

Extended Memory capabilities.

High Operability

For enhanced ease of use the slim grip fits more comfortably into the operators hand. Moreover the hand terminal is highly stain resistant.

Flash ROM able for the User Area

Flash ROM can be an option as a user area to store your application program. A total area of 128kbytes provided.

Reader

Reading indicator LED

LCD

Numeric keys



Compact Body



Magic keys



Trigger switch

Function keys

Software to Support Your Diverse Tasks

BHT-BASIC 3.0

This programming language can be used for a variety of applications, enabling users with knowledge of BASIC to develop programs easily. The BHT-Basic 3.0 language is compatible with the BHT-2000, BHT-3000 and BHT-4000 range of hand-held terminals.

BHT-BASIC extension library

This library provides graphic functions, such as lines, squares and circles, as well as facilitating a conversion from ASCII to binary or decimal variables.

BHT-C system pack (scheduled for development)

This system pack will allow users to develop application software in C language by using the BHT-C library.

Transmission utility

File transmission software for MS-DOS personal computers.

Windows-compatible

The BHT-BASIC 3.0 compiler and transmission utility are compatible with Windows.

Easy Pack Pro

Easy to use data collection software package provides an interactive system ensuring ease of operation by anyone wishing to implement a system immediately after introduction.

Ample choice of optical-communications units



Application programs and stored information can be easily transmitted by simply placing the hand terminal on the optical communication unit. Depending on specific requirements, there are three different models to choose from.

● **CU-5001 optical-communications unit with charger**

Recharging is enabled by placing the hand terminal on the CU-5001. Also, a spare nickel-hydrogen-battery cartridge can be recharged.

● **CU-5002 optical-communications unit**

Power can be supplied from a communications line of the RS-232C interface, thus removing the requirement for a power supply, such as an AC adapter or battery.

● **CU-5003 multiple-connection optical-communications unit**

In addition to the functions of the CU-5001, a maximum of 32 communications units can be connected via the RS-485 interface, as well as over long distance (max. 1.2 km). Thus enabling your system to manage diverse tasks with high efficiency.

BHT-5000 Specifications

Controller	CPU	16-bit C-MOS microprocessor	
Unit	Flash ROM *1	System area: 132 kbytes User area: 124 kbytes	
	RAM	128 kbytes , 512 kbytes , 1 Mbytes , 2 Mbytes	
Display Unit	Display element	Liquid-crystal Dot-Matrix Display (LCD)	
	Character size & Number of Characters	ALPHA-Numeric characters 8 lines × 21 characters (ANK) 4 lines × 16 characters (16 dots mode) 4 lines × 20 characters (12 dots mode)	
Scanner Unit	Width of reading window	70mm	
	Codes able to be read	Readable bar codes, EAN-13/8, UPC-A/-E, UPC/EAN with supplemental codes, ITF (Interleaved 2 of 5), Standard 2 of 5, CODABAR (NW-7), CODE39, CODE93 and CODE 128	
	Resolution	0.125 mm (when reading CODE39)	
	LED Display	Red/green LED	
Keyboard	Number of keys	24 keys plus trigger switch and 2 Magic keys	
		30 keys plus trigger switch and 2 Magic keys	
Communi-cations	Optical coupling	Synchronization	Start-stop synchronization
		Transmission speed	38,400 bps MAX
	Cable interface	Synchronization	Start-stop synchronization
		Transmission speed	38,400 bps MAX
	Signal level	RS-232C level	
Supplemen-tary function	Real time clock	Year/month/date/hour/minute/second (with automatic correction for a leap year)	
	Beeper	Volume & Tone Control	
	Low Battery indication	With	
Power supply	Main battery (selectable) *2	Rechargeable Ni-MH battery (cartridge)	
		1.5-V size-AA batteries (LR6), 2 ea.	
	Backup power	Lithium secondary battery (maintenance-free)	
Operating time *3	When using nickel-hydrogen battery	Approx. 20 hours	
	When using 1.5-V size-AA batteries	Approx. 100 hours	
Weight		Approx. 280 g (including Ni-MH batteries)	

*1 Deleting data from the Chinese-character generator enables you to use a maximum of 384 kilobytes as user area. In such a case, you can use only the kanji characters you need by employing the optional kanji utility.

*2 Either the optional nickel-hydrogen-battery cartridge or two 1.5-V size-AA batteries can be used. To use AA batteries, the battery pack is required.

*3 Based on operation reading bar codes twice per ten seconds.

CU-5001 Specifications (with charging function)

Communi-cations unit	Synchronization	Start-stop synchronization
	Transmission speed	38,400 bps
	Signal level	RS-232C level
	Connector	Dsub-25
Battery	For a battery cartridge loaded in the BHT-5000	Normal recharging (timer: 10 hours)
Charger	Recharging spare batteries	Normal recharging (timer: 10 hours)
Display	LED indicator	Power LED, data communications LED, and charging LEDs.
Power supply in use		AC adapter

CU-5002 Specifications

Communi-cations unit	Synchronization	Start-stop synchronization
	Transmission speed	19,200 bps
	Signal level	RS-232C level
	Connector	Dsub-25

CU-5003 Specifications (multiple-connection type)

Communi-cations unit	Synchronization	Start-stop synchronization
	Transmission speed	38,400 bps
	Signal level	RS-232C level
	Connector	Dsub-25 (RS-232C), modular connector (RS-485)
	Max. number of units connectable	32 *4
	Max. distance extendible	1.2 km *4
Battery	For a battery cartridge loaded in the BHT-5000	Normal recharging (timer: 10 hours)
Charger	Recharging spare batteries	Normal recharging (timer: 10 hours)
Display	LED indicator	Power LED, data communications LED, and charging LEDs.
Power supply in use		AC adapter

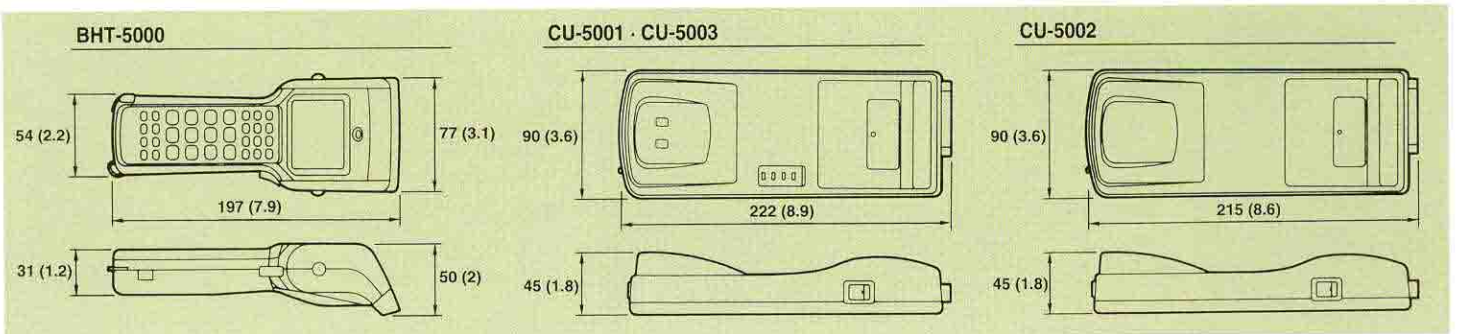
*4 Multiple connection requires the use of RS485 interface.

Accessories

- Hand strap
- Nickel-hydrogen-battery cartridge
- Battery pack
- C-500 fast double battery charger

Software (optional)

- BHT-BASIC 3.0 compiler
- Transmission utility
- BHT-BASIC extension library
- BHT-C system pack



Dimeters are in millimeters (inch)