

Full support from introduction to operation

DENSO WAVE provides opportunities for new work methods through its products, support for introduction and after-sale service.

Support for introduction provided by the BHT team

Our special BHT team helps customers introduce the products by capitalizing on its long-accumulated experience, know-how and expertise in BHT products. DENSO WAVE team will make proposals, including options for software, to meet the customers' requests, such as "But we don't want to make any changes to our current operations," and "We want to increase our operational efficiency."

[Examples of support provided by the BHT team]

- Support for selection of devices
 - Support for change of OS
 - Developing apps and making proposals to help customers solve their respective problems
 - Communication environment optimization service (addition cost)
- We can conduct a survey to select the most appropriate locations for access points and optimize channel design to propose the optimal wireless environment for customers.

Extensive lineup of software products

We provide our own developed software products to help customers increase their operational efficiency throughout the development, kitting, operation and maintenance processes. We can also develop new software products to help customers solve their respective problems. In addition, we introduce our partner companies' apps usable with BHT products.

After the start of operation

■ Speedy support for the solution of problems

For questions and problems related to daily operations, our engineers will provide prompt responses in each area across the world and our local customer service staff will deal with issues with speed and integrity.

■ 3-year warranty for hardware *Prior reservation needed

We provide a 3-year free-of-charge post-purchase repair service. We offer a quick response both in Japan and across our bases in the world.

■ Support for the OS

As the developer of BHT-OS, we will supply the OS update patches on a continual basis. We will offer support for our own developed OS on a continual basis so that customers can use the terminals for a long time.

DENSO

HAND-HELD TERMINAL

BHT-S40/S30

Sophisticated and stable OS

Hand-held terminal equipped with DENSO WAVE's own BHT-OS



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More Details

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Need more Information

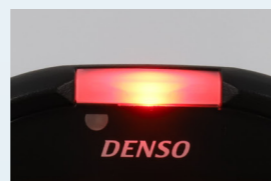


Light and comfortable to use.



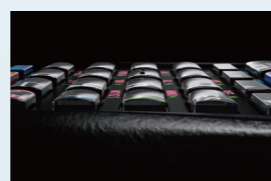
Large LED with high visibility

Easy to recognize the completion of reading and error messages even while working in a place where the screen visibility is limited. The display color was selected in consideration of the diversity of people's color vision.



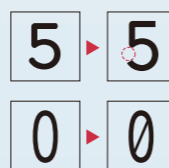
Easy-to-press keys

The dome-shaped keys are laid out in a manner which enables smooth data entry. The scan key is large enough for error-free operation.



Universal design

We have adopted universal colors and universal fonts in consideration of the diversity of people's color vision, thereby making it a handy terminal that is easy to use for many people.



Easy-to-read font

Color scheme for the keys



Key color



Difficult to differentiate since the colors look similar

BHT-S40/S30



Type 1 color vision

Easy to differentiate since each color looks different

Optimal center of gravity design for comfort of use

The total length is minimized, and the battery, screen and reader are laid out in an optimal manner to achieve a center of gravity design that provides comfort of use.

Easy to hook your finger around

Shaped in a manner that makes it easy to hook your index finger onto it.

Uniquely designed for easy gripping

The width of the grip is minimized to make it easier to grip it even with the smaller hand of a woman. A cylindrical battery is adopted to give the grip an easier-to-grip shape. You can therefore use it for many hours without feeling stress on the hand.

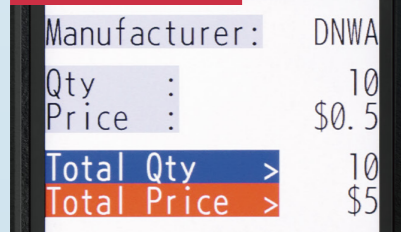
Easy-to-replace battery

You can easily open/close the battery compartment simply by pressing the "PUSH" button on the cover.



Lineup of models that can be used selectively according to the place of use and usage

3.2-inch large screen



The large WVGA screen provides high legibility and is suitable for use at stores to increase the efficiency of product ordering, etc.



BHT-S40



BHT-S30

2.4-inch compact screen



Is highly portable and can be used for real-time product picking in a warehouse, being equipped with high-speed Wi-Fi communication function.

Reasons why BHT-OS is selected by customers

Long time support

We provide support for our own developed OS on a continual basis so that customers can use the terminals for a long time with peace of mind.

Stable operation

The efficient system structure ensures stable operation, limits the download of apps unrelated to business and omits unnecessary functions.

High compatibility with conventional models

Apps used on other BHT-OS-based models can be used without changing the screen layout. *in compatible mode

Read faster, works harder.

Equipped with a new decode engine and high-density sensor, BHT-S40/S30 provides outstanding reading performance. The high-performance CPU adopted for the device enables high-speed processing.



Just "trace" for serial reading



By adopting a new decode engine, we have more than doubled the reading speed compared with conventional products. With the terminal, you only need to trace the labels of items on the shelves and those of stacked items for serial reading. You can also perform inventory work, which usually takes a whole day, in half the time.

*Only for 2D code models

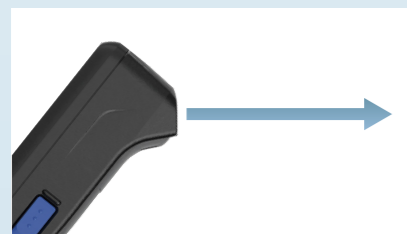
Conventional product	Doubled or more relative to conventional products
BHT-S40/S30	

*When labels specified by the company are used and are read sequentially at a fixed distance



For details of reading, please refer to the page.

Just "hold over" for easy reading



Can easily read the label (code) from a distance of 1m

We have adopted a high-density sensor so that codes can be read without fail even from a distance. Read codes easily while holding the terminal in a comfortable position without the need to stand up or crouch down repeatedly. Codes can be read easily even through glass.

*Only for 2D code models



Needs no skills for reading

The laser marker, which provides high visibility even under the sun, eliminates the need to acquire skills to read labels covered with wrapping films and enables reading labels outdoors.

*Only for 2D code models



Can read even difficult-to-read labels

We have adopted a new decode engine and high-density sensor and designed the optimal angle for operability in a comfortable position with no specular reflection effect. As a result, even labels covered by wrapping film, blurred/stained/deformed labels, and DPM codes can be read by the terminal.

*Only for 2D code models

Supports a comfortable work environment.



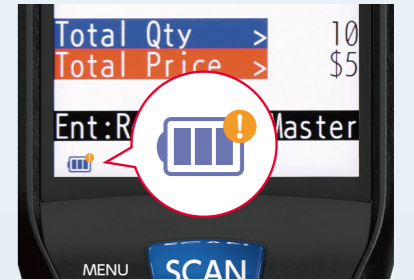
Direct charging supported

Widely used Type-C cable supported, allowing recharging with mobile batteries.



Usable for many hours with peace of mind

The unique power-saving design prolongs the operation hours. Moreover, two types of batteries can be used according to the usage.



(Image for illustrative purposes only)

Detection of battery deterioration to prevent related incidents

The terminal detects battery deterioration and warns you when to replace.

Higher communication speed for higher operational efficiency

IEEE 802.11 ac supported for high-speed communication. You can use the terminal with peace of mind even in the most advanced infrastructure environment.

Outstanding robustness.

Durable against 2.5-meter drops.
*Durable against 2.0-meter drops for the S30
The polycarbonate body is light and highly resistant to shocks.

Able to withstand harsh environments

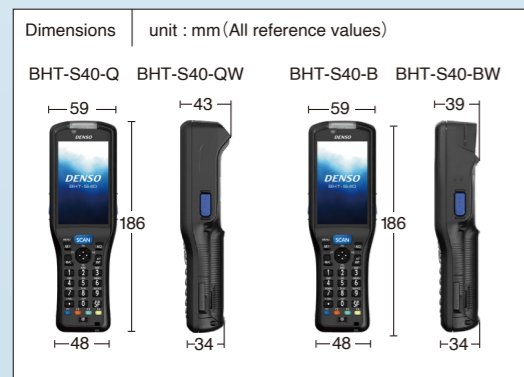
With S40 IP65- and S30 IP 54-compliant, you can use the terminals outdoors as well as in dusty factories with peace of mind.



HANDY TERMINAL
BHT-S40

Model	2D Code Model		バーコードモデル		
	Bluetooth®Model	Bluetooth®+Wireless LAN Model	Bluetooth®Model	Bluetooth®+Wireless LAN Model	
	BHT-S40-Q	BHT-S40-QW	BHT-S40-B	BHT-S40-BW	
Operating System					
BHT-OS					
CPU					
32-bit RISC microprocessor					
Memory					
Flash memory					
128 MB (with a user area of approx. 84 MB)					
Display	Screen size and resolution *1				
	3.2-inch WVGA (480x800 dots)				
	Display device				
	Dot matrix liquid crystal display (color)				
Number of displayed characters *2	Small font	10 chrs. x 16 lines (full-width) or 20 chrs. x 16 lines (half-width)(QVGA-compatible mode: 10 chrs. x 13 lines (full-width) or 20 chrs. x 13 lines (half-width))			
	Standard font	8 chrs. x 13 lines (full-width) or 16 chrs. x 13 lines (half-width)(QVGA-compatible mode: 8 chrs. x 10 lines (full-width) or 16 chrs. x 10 lines (half-width))			
Backlight					
White LED					
Reader	Reading method		Area sensing	Advanced Scan Plus (CCD)	
	Supported code	2D code	QR code, Micro QR code, SQRC, PDF417, Micro PDF417, Maxi code, Data Matrix (ECC200), and GS1 Composite	—	
		Barcode	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-on), Interleaved 2 of 5, Codabar (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), Standard 2 of 5 (STF), and GS1 DataBar(RSS)		
	Minimum resolution	2D code	0.127 mm	—	
		Barcode	0.076 mm	0.125 mm	
	Marker		Cross guide marker		
Confirmation of reading		3 color (blue, red, and green) LEDs, speaker, and vibrator			
Key Entry	Number of keys				
	21 keys (including the power key), cursor keys, and 3 trigger keys				
Communication	Applicable standard	—	Compliant with IEEE.802.11ac/a/b/g/n	—	Compliant with IEEE.802.11ac/a/b/g/n
		—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)
	Frequency	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)
		—	Infrastructure mode and ad-hoc mode	—	Infrastructure mode and ad-hoc mode
	Access method	—	Infrastructure mode and ad-hoc mode	—	Infrastructure mode and ad-hoc mode
		—	Encryption : WEP (40/128), TKIP, and AES WPA authentication : WPA and WPA2 User authentication : PSK, EAP-TLS, and PEAP	—	Encryption : WEP (40/128), TKIP, and AES WPA authentication : WPA and WPA2 User authentication : PSK, EAP-TLS, and PEAP
Bluetooth® connection		Bluetooth® Version 5.0+EDR/LE(Supported profiles: GAP, SPP, HID, DUN, and GATT)			
Wired connection		USB Version 2.0 (USB Type-C)			
Power Supply	Main battery				
	Lithium-ion battery				
	Operating time *4	BT2S(1900 mAh)	55 hours*5/14 hours*6	55 hours*5/21 hours*7	57 hours*5/15 hours*6
BT2(3200 mAh)		95 hours*5/25 hours*6	95 hours*5/40 hours*7	98 hours*5/27 hours*6	98 hours*5/42 hours*7
Card Slot					
FAT32-compliant microSD or microSDHC (up to 32 GB) × 1					
Additional Functions					
Clock, speaker, vibrator, battery voltage indicator, keyboard backlight, and remote wakeup					
Environmental Performance	Operating temperature *3				
	-20°C to 50°C				
	Operating humidity				
	5 to 95%RH (non-condensing and non-icing)				
Protective class *8					
IP65					
Drop resistance *8					
Above concrete floor, 2.5 m, 60 times or more from 1.5 m					
Weight (including the battery)					
Approx. 242 g (including BT2S), approx. 256 g (including BT2)					

- *1. The LCD display is manufactured with precise technology. The rate of non-defective pixels is 99.99% or more, which means that 0.01% or less pixels could be stuck or dead.
 *2. The small font is 48-dot size and the standard 60-dot size. There are also 24-dot, 30-dot, and 40-dot fonts.
 *3. 0 °C to 40 °C during charging.
 *4. The operating time is a reference value at a room temperature and may differ depending on the operating conditions.
 *5. Reading once per five seconds with the LCD backlight lit only during reading.
 *6. One cycle (30seconds): Reading (1second), Bluetooth communication (sending 1KB through a continuous connection), screen update (1second), and wait, with the LCD backlight lit only during reading, Bluetooth communication, and screen update.
 *7. Assuming a ratio among reading, wireless communication, screen update, and wait of 1:1:1:20, with the LCD backlight lit only during reading, wireless communication, and screen update.
 *8. These are the values tested at a room temperature, and not guaranteed values.

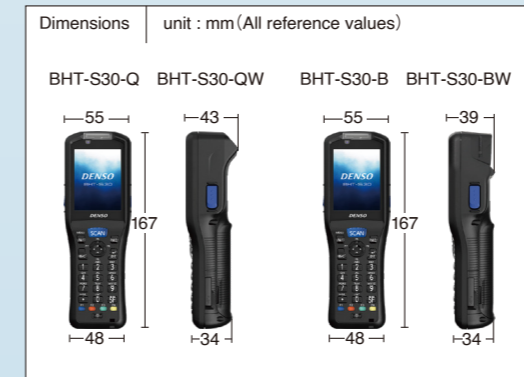


- Provided in a set
- Terminal ●Hand strap ●Operation manual ●User's Manual (Can be downloaded from the DENSO WAVE website.)
- Options
- Battery
 - 1900 mAh battery : BT2S
 - 3200 mAh battery : BT2
 - Communication unit
 - USB type communication unit : CU-S40U*1
 - LAN type communication unit : CU-S40L*1
 - RS232C type communication unit : CU-S40R*1
 - Charger
 - 4-slot main unit charger : CH-S40-4*1
 - Single-slot battery charger : CH-BT2*1
 - 4-slot battery charger : CH-BT2-4*1
 - Others
 - Soft case : SCBHT-S40
 - Waist case : WHBHT-M60/S40/S30
 - Neck strap : NSBHT-1300
 - USB Type-C – Type-A conversion cable (1.5 m) : CB00-US1500/4A-4C
- *1: AC adaptor sold separately.

HANDY TERMINAL
BHT-S30

Model	2D Code Model		バーコードモデル		
	Bluetooth®Model	Bluetooth®+Wireless LAN Model	Bluetooth®Model	Bluetooth®+Wireless LAN Model	
	BHT-S30-Q	BHT-S30-QW	BHT-S30-B	BHT-S30-BW	
Operating System					
BHT-OS					
CPU					
32-bit RISC microprocessor					
Memory					
Flash memory					
128 MB (with a user area of approx. 84 MB)					
Display	Screen size and resolution *1				
	2.4-inch QVGA (240x320 dots)				
	Display device				
	Dot matrix liquid crystal display (color)				
Number of displayed characters *2	Small font	10 chrs. x 13 lines (full-width) or 20 chrs. x 13 lines (half-width)			
	Standard font	8 chrs. x 10 lines (full-width) or 16 chrs. x 10 lines (half-width)			
Backlight					
White LED					
Reader	Reading method		Area sensing	Advanced Scan Plus (CCD)	
	Supported code	2D code	QR code, Micro QR code, SQRC, PDF417, Micro PDF417, Maxi code, Data Matrix (ECC200), and GS1 Composite	—	
		Barcode	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-on), Interleaved 2 of 5, Codabar (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), Standard 2 of 5 (STF), and GS1 DataBar(RSS)		
	Minimum resolution	2D code	0.127 mm	—	
		Barcode	0.076 mm	0.125 mm	
	Marker		Cross guide marker		
Confirmation of reading		3 color (blue, red, and green) LEDs, speaker, and vibrator			
Key Entry	Number of keys				
	21 keys (including the power key), cursor keys, and 3 trigger keys				
Communication	Applicable standard	—	Compliant with IEEE.802.11ac/a/b/g/n	—	Compliant with IEEE.802.11ac/a/b/g/n
		—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)
	Frequency	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)	—	5GHz-band (W52,W53,W56 and W58) 2.4GHz-band (1 to 13 channels)
		—	Infrastructure mode and ad-hoc mode	—	Infrastructure mode and ad-hoc mode
	Access method	—	Infrastructure mode and ad-hoc mode	—	Infrastructure mode and ad-hoc mode
		—	Encryption : WEP (40/128), TKIP, and AES WPA authentication : WPA and WPA2 User authentication : PSK, EAP-TLS, and PEAP	—	Encryption : WEP (40/128), TKIP, and AES WPA authentication : WPA and WPA2 User authentication : PSK, EAP-TLS, and PEAP
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Wired connection		USB Version 2.0 (USB Type-C)			
Power Supply	Main battery				
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	Operating time *4	BT2S(1900 mAh)	55 hours*5/14 hours*6	55 hours*5/21 hours*7	57 hours*5/15 hours*6
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Card Slot					
FAT32-compliant microSD or microSDHC (up to 32 GB) × 1					
Additional Functions					
Clock, speaker, vibrator, battery voltage indicator, keyboard backlight, and remote wakeup					
Environmental Performance	Operating temperature *3				
	-20°C to 50°C				
	Operating humidity				
	5 to 95%RH (non-condensing and non-icing)				
Protective class					
IP54					
Drop resistance					
Above concrete floor, 2.0 m, 60 times or more from 1.2 m					
Weight (including the battery)					
Approx. 219 g (including BT2S), approx. 233 g (including BT2)					

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 *3. 0 °C to 40 °C during charging.
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