

Offers solutions in diverse industries and scenes!

[Applications of BHT-1200 series]

Field services ■ Delivery management ■ Inspection ■ Maintenance

- Enables high-speed wireless WAN communication from the field *BHT-1261QWBG-CE only
- Collects work history records more accurately using GPS data *BHT-1261QWBG-CE only



Retail/wholesale stores ■ Inventory ■ Order placement ■ Stock management ■ Inspection of incoming products ■ Delivery (customer-facing terminal)

- Large, easy-to-see screen enables smoother stock confirmation and order placement
- High-speed wireless communication enables real-time, point-of-sale stock inquiry



Distribution warehouses ■ Picking ■ Entering/shipping management ■ Inventory

- High-speed wireless connection with high staying power. Lasts all day long even when always connected by wireless
- Outstanding toughness ensures secure operations even under rough handling conditions



Plants ■ Process management ■ Production management ■ Traceability

- High-speed scanning of QR codes enables smooth centralized management of process progress. Also improves efficiency in production management
- Fast wireless communication even in large plants



DENSO WAVE Quality Chosen based on customers' confidence in us and our achievements.

Rich experience

Pioneering company, established in 1978, in the automatic recognition field whose products boast the No. 1 spot for the number of units in use.

Long-term support

Even after sales end, 5-year support is guaranteed.

Reliable, integrated production system

Denso Wave is engaged in every aspect of a product, its development, production, marketing and maintenance.

Superior engineering prowess

Denso Wave is the company that developed QR Code, used all over the world.

DENSO

BHT-1200 series specification

Type	Bar code model				2D code model				
	Bluetooth® + Wireless LAN		Bluetooth® + Wireless LAN		Bluetooth® + Wireless LAN and WWAN/GPS		Bluetooth® + Wireless LAN and WWAN/GPS		
BHT-1261BWB-CE	BHT-1261BWB-CE (H)	BHT-1261BWB-CE (WEC7)	BHT-1261BWB-CE (H-WEC7)	BHT-1261QWB-CE	BHT-1261QWB-CE (WEC7)	BHT-1261QWB-CE (H)	BHT-1261QWB-CE (H-WEC7)	BHT-1261QWBG-CE	BHT-1261QWBG-CE (H-WEC7)
OS	Windows Embedded CE 6.0 R3		Windows Embedded Compact 7		Windows Embedded CE 6.0 R3		Windows Embedded Compact 7		Windows Embedded CE 6.0 R3
CPU	ARM Coretex-A8 800MHz								
Memory	RAM 2.0GB								
Display	Number of Dots*1 3.5 inch HVGA (320 x 480 dots)								
Display device	Liquid crystal dot matrix display (color)								
Back light	White LED								
Scanner	Advanced scan plus (CCD)				Area sensor				
Decode	Bar code		2D code		Bar code		2D code		
Minimum resolution	0.125mm		0.10mm		0.125mm		0.10mm		
Reading reference position	170mm		140mm		170mm		140mm		
Maker	-				Area guide maker				
Scan Confirmation	LED in two colors: Blue/red, speaker, vibration								
Key input section	Number of keys 31 keys (excluding the power key) + 3 trigger keys								
Network	Wireless LAN Subtle standard Comply with IEEE802.11b/g/n*2								
Frequency	IEEE802.11b/g/n (2.4GHz)								
Network range*3	IEEE802.11b/g/n (indoor: about 150m, outdoor: about 300m)								
Transmission speed*4	IEEE802.11b: 11/5.5/2/1Mbps, IEEE802.11g: 54/48/36/24/18/12/9/6Mbps, IEEE802.11n: 65/58.5/52/39/28/19.5/13/6.5Mbps								
Security	WEP40/128, WPA-PSK (TKIP, AES), WPA2-PSK (TKIP, AES), WPA-1 x (TKIP, AES/EAP-TLS, PEAP, LEAP, EAP-FAST), WPA2-1 x (TKIP, AES/EAP-TLS, PEAP, LEAP, EAP-FAST), 802.1 x (EAP-TLS, PEAP, LEAP, EAP-FAST/WEP)								
Wireless WAN	-				HSPA+ (GSM=850, 900, 1800, 1900MHz / 3G-Band V, VIII, II, II*)				
Bluetooth	Bluetooth Ver2.0 + EDR based class 2		Bluetooth Ver2.1 + EDR based class 2		Bluetooth Ver2.1 + EDR based class 2		Bluetooth Ver2.1 + EDR based class 2		Bluetooth Ver2.0 + EDR based class 2
Cradle I/F	RS-232C / USB client OTG								
GPS	-				GPS				
Card slot	MicroSDHC/MicroSD card (~32GB)*1								
Camera	5.0M pixel (5.0 megapixel) Camera with automatic focusing function								
Power	Main battery Lithium-ion battery								
Operating time*5	With standard battery		With large-capacity battery		Approx. 23 hrs**		Approx. 34 hrs**		Approx. 18 hrs (WLAN)*6 / Approx. 8 hrs (WWAN)*7
Additional functionality	Clock, speaker, vibration, battery voltage indicator, key back light, G-sensor, microphone receiver								
Environmental performance	Operating temperature -20~50°C*8								
Protection rating	IP54								
Drop resistance*9	0.2m x over 1000 times / 1.5m x 30 times (5 times on each six sides) on a concrete floor								
Mass (including battery, stylus pen, hand-belt)*10	Approx. 330g								

* 1: The liquid panel is made with high-precision technology. Though the number of pixels available is 99.99%, please understand that there is 0.01% chance of the display being scrambled and turned off. * 2: BHT-1200 supports IEEE802.11a in some regions. * 3: Network range and transmission speed are logical variables and accordingly, these may vary depending on the actual environmental condition. * 4: The available frequency may differ according to region. * 5: Operating times shown are reference values at room temperature and may vary depending on working conditions. * 6: Ratio of scanning: wireless communication: screen update: standby = 1:1:1:20. The vibrator and buzzer are disabled, the power save mode is ON (if available), and the wireless function is enabled only when the terminal is connecting to the wireless network; the wireless function is disabled otherwise. * 7: Ratio of scanning: screen display: wireless communication: standby = 1:9:20:270 under continuous wireless WAN connection, and the vibrator, back light, and buzzer are disabled. * 8: The temperature rises from 0 to 40°C while charging. * 9: This is a test value, not a guaranteed value. * 10: The value when using the standard battery.

Option (sold separately)

- Holder, which performs data communication with BHT communication unit and the up-level device
- CU-1233(RS-232C/USB communication + main body charging + reserve battery charging)
- CU-1211(Ethernet communication + main body charging + reserve battery charging)

	CU-1233	CU-1211
Communication mode	Compy with RS-232/USB2.0 Full speed	Ethernet (100BASE-TX)
Charging time (main body)	Standard battery: about 3 hours, high-capacity battery: about 4.5 hours	
Reserve charging	Standard battery: about 3 hours, high-capacity battery: about 4.5 hours	
Size	133(D)×97(W)×101(H)	
Working voltage	AC adapter (AD3-1012/3000-2)	



Standard battery



High-capacity battery

- Battery
 - BHT reserve battery
 - BT-110LA (standard battery only)
 - BT-120LA-C (standard battery + battery cover)
 - BT-110L (high-capacity battery only)
 - BT-120L-C (high-capacity battery + battery cover)
 - Soft case and others
 - SCBHT-1200 (Soft case)
 - SCBHT-1200-3G (Soft case for BHT-1261QWBG-CE)
 - WHBHT-1100/1200 (waist-pack case)
 - SBBHT-700 (shoulder-belt)
 - Communication cable
 - CBBHT-US1800 / C12-4A
 - Recharger
 - CH-1104 (4 serial battery rechargers)
 - CH-1254 (4 serial unit rechargers)
- * The BHT-1200 can be charged by connecting to a USB charger or other power adapter. When charging the BHT-1200, use a power adapter that satisfies the following output and USB charging specifications.
Output specifications: (voltage) DC5.0±0.25 V(current) 1.2 A or higher
USB charging specification: Battery Charging Specification Rev. 1.2

Components

- Hand-belt
 - Stylus pen
 - Instruction manual
 - Guidelines for operation
- Battery and battery cover are not supplied with the product.

Software

- Development tools
 - Software Development Kit (SDK) for BHT Windows® CE**2
 - Software Development Kit (SDK) for Windows® Embedded Compact 7**3
- Preinstalled Software applications
 - Keyboard interface software [kbiCE]
 - Launcher [Application Launcher]
 - Wireless connection setup tool [Wlan Manager]
 - Backup tool [BHT Backup]

*1: This software application is available free of charge from the site to customers who have purchased BHT Windows.
*2: This software application is for Windows Embedded CE 6.0 R3-based models.
*3: This software application is for Windows Embedded Compact 7-based models.

Items with this mark are available from the company's homepage (Qdirect) free of charge.

For more information, please visit our website

<http://www.denso-wave.com/en/adcd/>



*Appearance and specifications are subject to change without prior notice. *Description stated in this catalogue is as of December, 2014.

DENSO WAVE INCORPORATED

BHT-1200 SERIES

DENSO

HANDY TERMINAL

BHT-1200 SERIES



- Bar code model
- Bluetooth® + Wireless LAN
- BHT-1261BWB-CE
- BHT-1261BWB-CE (H)
- BHT-1261BWB-CE (WEC7)
- BHT-1261BWB-CE (H-WEC7)



- 2D code model
- Bluetooth® + Wireless LAN
- BHT-1261QWB-CE
- BHT-1261QWB-CE (WEC7)
- Bluetooth® + Wireless LAN and WWAN/GPS
- BHT-1261QWBG-CE



Windows® Embedded Compact 7-based models launched!!



Best design, which makes it easier to grip and simple to operate



Fast wireless communication, supporting IEEE802.11b/g/n
*BHT-1200 supports IEEE802.11a in some regions.



Wireless WAN function enables real-time acquisition of GPS data
*BHT-1261QWBG-CE only



Increase the work efficiency with overwhelming scan-performance




Increase business efficiency. Expand functionality. Global model with high specifications

Easy to operate


Strengthen the advantages of PDA and make up for the weaknesses

Simple to operate with only one hand, even with just your thumbs



Keys are placed and arranged to enable one-handed operation


Easy to grip



About the size of a smartphone (57mm) and with a slim-shape that fits easily in your hands


Grip width 57mm

Stable grip




Stable to use, by holding the handle in one hand

12 functional keys



Set up frequently used functions with sufficient numbers of functional keys. You can use the product in a dark place, thanks to the key back light

The big screen allows you to see the information easily at a glance



Display screen with 3.5 inch high-precision HVGA clearly shows even small-sized characters

"Professional-standard" long-lasting operation!



Unique power-saving design enables long-time operation of approximately 34 hours* (with large-capacity battery)


*For barcode model. Approx. 33 hours for 2D code model



Global support system

Experience Japanese levels of quality and service, worldwide

Usable worldwide! Comprehensive support system also available!



DENSO group operates globally, providing prompt support across a full range of services, from sales to maintenance. Language options allow you to change the language being displayed.

<Countries using the BHT-1200>
Japan, Europe, Australia, North America, and Asia
* For details, contact our sales representative.

Support an integrated management tool with the world's largest market share. Drastically reduce the cost and effort required for application updates.

BHT-1200 supports MobiControl, an integrated management tool for terminals*. Regardless of whether it is used in Japan or overseas, the terminal is managed by the management server, resulting in a reduction in the cost and effort required to run it, and meaning it runs seamlessly, saving you stress.

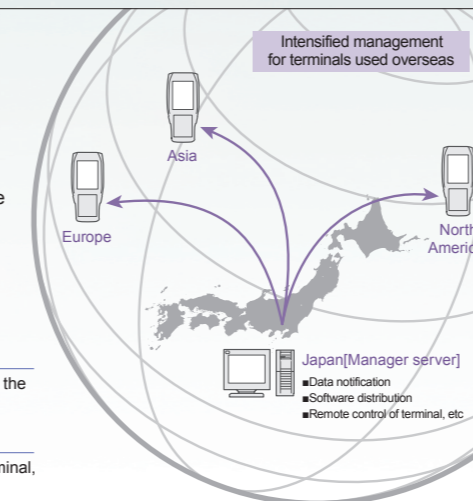
* A separate contract is required to use MobiControl.

Examples of using MobiControl * MobiControl is Soti, Inc.'s registered trademark.

Synchronize the management server and the terminal
Collect data from each terminal and distribute the data stored on the server

Installing the software automatically updates it
Easy to update and install the unit application


Identify the fault of the terminal where the error has occurred
Compare and analyze the terminal program to find the cause of failure
Enhanced security against leakage of information
Embedded with security functions against loss of terminal, server attack and information leakage



Wireless and security


The stability and speed required for business-use

Fast wireless communication
Avoid delays caused by congestion




Support IEEE802.11b/g/n. High-speed communication, without congestion in wireless network. Connect to the wireless network in 1 second, using the company's own driver

Prevent unauthorized access and wiretapping



Embedded with WPA/WPA2, highly reliable security technique, together with WEP

Remote desktop offers smooth operation!




"Remote desktop plug-in" enables thin client implementation with lower development costs. When remotely connected to a server, the server screen can be displayed directly on each terminal, allowing control of buzzer, LED and other BHT devices from each terminal

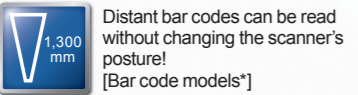


Scanning performance Overwhelmingly fast! Models offered with excellent distant bar code scanning and small bar code scanning!

400 scans in one second
Scan up to the depth of about 1,300 mm distance



Distant bar codes can be read without changing the scanner's posture!
[Bar code models*]

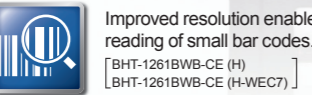


* Excluding BHT-1261BWB-CE (H) and BHT-1261BWB-CE (H-WE7C)

The BHT-1200 enables super-deep-field scanning; bar codes not only close to the terminal, but also bar codes around 1,300 mm* away from the terminal can be scanned, making it possible to perform smooth scanning regardless of the scanner's position.

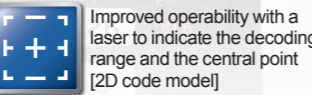
* When the narrow element width is approximately 1 mm

Improved resolution enables reading of small bar codes.
[BHT-1261BWB-CE (H) [BHT-1261BWB-CE (H-WE7C)]



High-resolution models with a minimum reading of 0.10 mm are also offered. Small product codes can be scanned smoothly.

Improved operability with a laser to indicate the decoding range and the central point
[2D code model]



Range guide market, which acquired a patent in Japan, supports speedy decoding.
* Patent no. 3562395

Camera 5.0 megapixel-level digital camera



Take a photo of defective products while inspecting

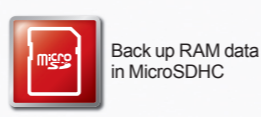


Double-functional product with 5.0 megapixel-level digital camera function. Convenient auto-focus and built-in mini size light



Data backup

Back up RAM data in MicroSDHC

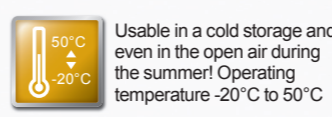


Flash ROM with high-capacity of 2GB, use it without worries about the capacity



Durability

Usable in a cold storage and even in the open air during the summer! Operating temperature -20°C to 50°C




Cylindrical 'jacket-structure', protecting the board from impact, dust and water



Wireless WAN/GPS BHT-1261QWBG-CE only

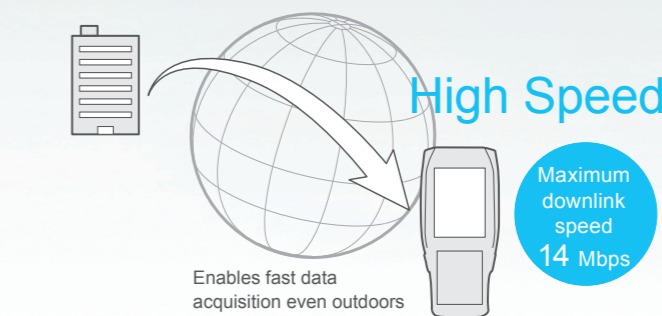
Smooth data sending even away from offices!

High-speed 3G communication facilitates field operations!




Supports HSPA+ data communication, with a maximum download rate of 14 Mbps*. Since this product enables data communication without a mobile router even outdoors, it is suitable as a terminal for field service work such as delivery, maintenance and inspection.

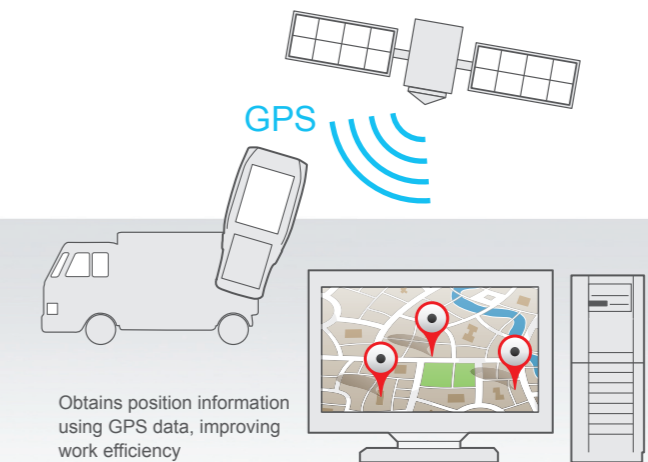
* This is not the actual communication rate but the maximum technical standard value. Actual communication rate varies according to the communication environment and network conditions.



Collects accurate work history records with GPS!



Linking position coordinate information included in the GPS signal with work history records improves the accuracy of history records, helping improve work efficiency.



Obtains position information using GPS data, improving work efficiency



Bluetooth® + Wireless LAN and WWAN/GPS
BHT-1261QWBG-CE