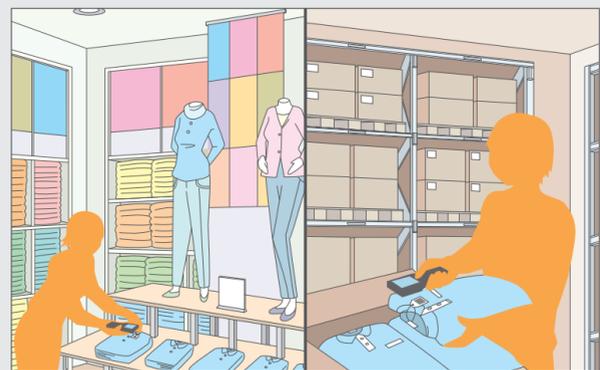


Supports any system.

Applications for BHT-1300 series

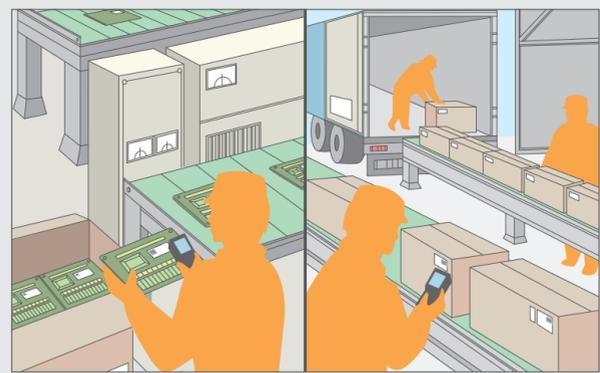
In retail/wholesale fields

- It can be held comfortably even by women, and its aesthetics enable it to fit in anywhere with style.
- Thanks to its 360° reading capability, inventory time can be drastically cut.



In distribution/manufacturing fields

- Round-the-clock use of the model, which is compliant with IEEE 802.11 b/g/n, is possible while it is operated online.
- The model's robust durability ensures accurate use in tough work environments with peace of mind.



DENSO WAVE Quality

Why are DENSO WAVE's products chosen over others?

<p><b>Rich experience</b></p> <p>Pioneering company, established in 1978, in the automatic recognition field whose products boast the No. 1 spot for the number of units in use.</p>	<p><b>Reliable, integrated production system</b></p> <p>DENSO WAVE is engaged in every aspect of a product, its development, production, marketing and maintenance.</p>
<p><b>Long-term support</b></p> <p>Even after sales end, 5-year support is guaranteed.</p>	<p><b>Superior engineering prowess</b></p> <p>DENSO WAVE is the company that developed QR Code, used all over the world.</p>



BHT-1300 SERIES

BHT-1300 series specification

Type	2D code model				Barcode model			
	BHT-1361Q-CE	BHT-1361QWB-CE	BHT-1306Q	BHT-1306QWB	BHT-1361B-CE	BHT-1361BWB-CE	BHT-1306B	BHT-1306BWB
OS	Windows Embedded Compact 7				BHT-OS			
CPU	ARM Cortex-A8 800 MHz				32-bit RISC microprocessor			
Memory	Flash ROM <sup>1</sup> 2.0 GB (1.2 GB for user area)				64 MB (45 MB for user area)			
Display	Number of Dots <sup>2</sup>				2.4 inch QVGA (240x320 dots)			
	Display device				Liquid crystal dot matrix display (color)			
	Displayable characters <sup>3</sup>				15 (2-byte characters) x 20 rows, 30 (1-byte characters) x 20 rows			
	24-dot font				10 (2-byte characters) x 13 rows, 20 (1-byte characters) x 13 rows			
Scanner	Mode				Area sensor			
	Decode				QR code, micro QR code, SQRC iQR, PDF417, micro PDF417, Maxi code, DataMatrix (ECC200), GS1 DataBar Composite (EAN.UCC Composite)			
	Barcode				EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (Add-on embedded), Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 DataBar(RSS)			
	Minimum resolution				0.167 mm			
Key input section	Reading reference position				100 mm			
	Maker				Area guide maker			
	Scan Confirmation				LED in two colors: Blue/red, speaker, vibrator			
	Number of keys				21 keys (including power key) + cross cursor key + 3 trigger keys <sup>4</sup>			
Communicator	Optical I/F				Infrared ray (IrDA Ver. 1.2)[low power/physical signaling layer-compliant]			
	Transmission speed				Up to 115.2 kbps, 460.8 kbps			
	Communication distance				Approximately 0.15 m MAX.			
	Wireless LAN				IEEE802.11n/g/n compliant			
Card slot	Suitable standard				IEEE802.11n/g/n compliant			
	Frequency				2.4 GHz band			
	Communication distance <sup>5</sup>				Approx. 75 m indoors, approx. 200 m outdoors			
	Transmission speed <sup>6</sup>				IEEE802.11n/g/n: 115.5/2/1Mbps, IEEE802.11g: 54/48/36/24/18/12/9Mbps, IEEE802.11n: 65/58.5/52/39/26/19.5/13.6/5Mbps			
Additional functionality	Access method				Infrastructure mode			
	Security				WEP40/128, WPA-PSK(TKIP/AES), WPA2-PSK(TKIP/AES), WPA-1x(TKIP/AES/EAP-TLS, PEAP/LEAP/EAP-FAST), WPA-2x(TKIP/AES/EAP-TLS, PEAP/LEAP/EAP-FAST), 802.1x(WEP/EAP-TLS, PEAP/LEAP/EAP-FAST)			
	Bluetooth				Bluetooth Ver. 2.1 + EDR based class 2			
	Cable I/F				USB Ver. 2.0 (USB microB)			
Environmental performance	Operating temperature				-20 to 50°C <sup>8</sup>			
	Security level				IP54			
	Drop resistance <sup>7</sup>				10 times of dropping tests from 2.0/1.2 m height over a concrete floor with each of 6 sides of the enclosure facing down (60 times total)			
	Mass				Approx. 193 g (with thin battery mounted), approx. 211 g (with standard battery mounted)			

<sup>1</sup> Memory (about 400 KB) for font file area included in the user area. <sup>2</sup> Although the effective number of picture elements is more than 99.99% thanks to high-precision technologies used to manufacture LCDs, allow the possibility of some elements, less than 0.01% that are missing or permanently turned on. <sup>3</sup> For BHT-OS model, the standard font, the small font, the 30-dot font and the 40-dot font can be set in addition to the 16-dot font and the 24-dot font. <sup>4</sup> Windows-OS model and BHT-OS model differ in key layout and allocation. <sup>5</sup> The listed figures for communication distance and speed are theoretically possible figures and may vary depending on the work environment where the unit is used. <sup>6</sup> Zero to 40°C when batteries are being recharged. <sup>7</sup> Result obtained in a test under regular temperature is shown and not meant as a guarantee.

Power supply specifications

Type	2D code model				Barcode model			
	BHT-1361Q-CE	BHT-1361QWB-CE	BHT-1306Q	BHT-1306QWB	BHT-1361B-CE	BHT-1361BWB-CE	BHT-1306B	BHT-1306BWB
Power	Main battery							
	Lithium-ion battery				Lithium-ion battery or 3 AAA alkaline batteries (separately sold battery adapter required)			
	Operating time <sup>9</sup>	Standard battery 29 hours <sup>9</sup> Thin battery 16 hours <sup>9</sup> AAA alkaline batteries -	29 hours <sup>9</sup> /27 hours <sup>10</sup> 16 hours <sup>9</sup> /14 hours <sup>10</sup> -	95 hours <sup>9</sup> 55 hours <sup>9</sup> 45 hours <sup>9</sup>	95 hours <sup>9</sup> /40 hours <sup>10</sup> 55 hours <sup>9</sup> /21 hours <sup>10</sup> 45 hours <sup>9</sup> /17 hours <sup>10</sup>	30 hours <sup>9</sup> 17 hours <sup>9</sup>	30 hours <sup>9</sup> /28 hours <sup>10</sup> 17 hours <sup>9</sup> /15 hours <sup>10</sup>	98 hours <sup>9</sup> 57 hours <sup>9</sup> 55 hours <sup>9</sup>

<sup>8</sup> The described operating time is a reference figure under regular temperatures and may vary depending on usage conditions. <sup>9</sup> With one reading pass over a 5s period and backlight level 1. <sup>10</sup> When ratios of reading, wireless communication, rewriting of screen and holding durations are 1:1:1:20 under continued wireless operation and backlight level 1. <sup>11</sup> When ratios of reading, wireless communication, rewriting of screen and holding durations are 1:1:1:20. The wireless function is enabled only when the terminal is connected to the wireless network; the wireless function is disabled otherwise. The backlight level is 1.

To use this product safely  
 ● Before using this product, please read its User's Manual thoroughly for correct use.

For more information, please visit our website  
<http://www.denso-wave.com/en/adcd/>

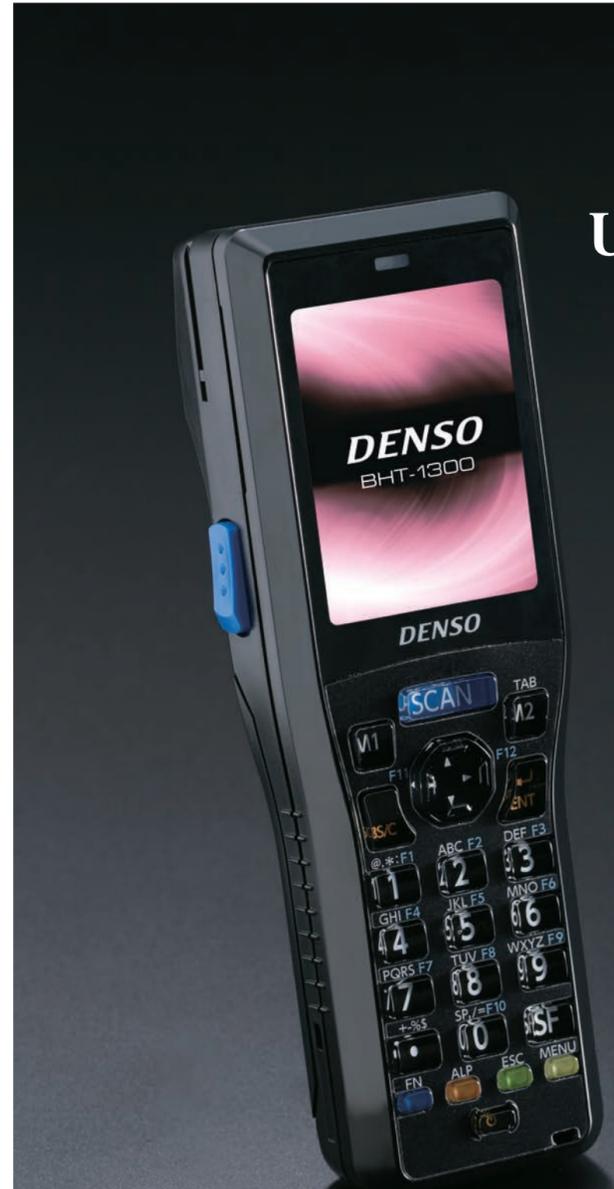


HANDY TERMINAL

NEW

BHT-1300 SERIES

<p>2D code model</p>	<p>&lt;Windows-OS model&gt; BHT-1361Q-CE BHT-1361QWB-CE</p>	<p>&lt;BHT-OS model&gt; BHT-1306Q BHT-1306QWB</p>	<p>Barcode model</p>	<p>&lt;Windows-OS model&gt; BHT-1361B-CE BHT-1361BWB-CE</p>	<p>&lt;BHT-OS model&gt; BHT-1306B BHT-1306BWB</p>
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Ultimate usability realized in these models

Windows-OS model released!!  
 OS can be selected according to use  
 • Windows-OS / • BHT-OS

Amazing 360° reading capability\*

\*2D code model

GLOBAL PRODUCTS

3 years  
 Only for customers registered as a user with DENSO WAVE:  
**3-year warranty**  
 \* See inside pages for details.

# OS can be selected from “Windows-OS” and “BHT-OS”!

# Universal handy terminal launched!

**NEW**

Windows-OS model released,  
as user-friendly as ever

Windows-OS



\* Screen showing simulated images

## User friendly!

**28h** Long operation possible even when the unit is kept online

• Proprietary power-saving design allowing a 28-hour\* consecutive operation, the longest in its class.  
\*When ratios of reading, wireless communication, rewriting of screen, and holding durations are 1:1:1:20 in continuous wireless operation; when a standard battery is mounted in barcode models.



**Intuitive operation with touch panel**

• A convenient touch panel allows intuitive operation.



**High-performance hardware enables comfortable operation.**

• High-speed CPU and large-capacity memory enable fast and efficient processing.

## Equipment that can be managed with peace of mind!

**Windows OS** Based on Windows Embedded Compact 7

• Easy to use around the world, with a versatile OS.

**Remote desktop/web browser** reduces development man-hours.

• Newly incorporated “remote desktop plug-in” and “web browser plug-in” enable thin client implementation with lower development costs.



**Quick wireless cloning\***

• Copies of another terminal can be made quickly.  
• Each terminal can be set up wirelessly without using a PC.

\*Bluetooth + wireless LAN model only.



**Compact, but easy to use**

• Each model's body is more than 15% thinner, lighter and smaller\*  
• Design was sought for functional beauty that also allows comfortable operation despite size constraints.  
• Dome-shaped keys are used, which can be operated easily by workers wearing work gloves.  
\*Compared to Denso Wave's BHT-800Q when a thin battery is mounted in respective 2D code models.



**360°** Capability to read codes from any angle of 360° makes for quick reading.\*

• Smooth 360° reading is realized using the latest algorithms.  
• Compared to barcode models, working time with the model can be reduced up to 30%.  
\*With only 2D code model



**Distinctive displays even in bright sunlight**

• A high-visibility LCD, High-Bright Display, is used.  
• A wide viewing angle, and therefore, enhanced visibility from oblique angles is realized.



**Solid and robust to protect both hardware and data**

• Built-in toughness that endures droppings from 2 m height and operates in minus 20° to 50°C temperature range.  
• For Windows-OS model, data on terminals can be backed up with BHT Backup.  
• For BHT-OS model, its transaction function automatically restores the immediately previous conditions in the case where the battery is disconnected and a file error occurs.



**Comprehensive support system available anywhere in the world.**

• The model can be used in more than 40 countries worldwide.  
• Supports multi-language display.  
For Windows-OS, fonts for more than 40 countries are supported.  
For BHT-OS model, Japanese, English, Chinese, Korean and Thai fonts are supported.



**3-year warranty allows customer's long use with peace of mind.**

• Customers who register on Denso Wave's website are offered a 3-year warranty.  
\*1-year warranty for consumables as defined by DENSO WAVE.



**42h** Unique power-saving design enables extended operation time.

• Operation time longer than Windows-OS model.  
• Unique power-saving design enables best-in-class long-time operation of 42 hours\* even when continuously connected by wireless.  
\*Ratio of scanning: wireless communication: screen update: standby = 1:1:1:20 under continuous wireless WAN connection. For barcode model with a standard battery.



**Ready for use with simple business application software.**

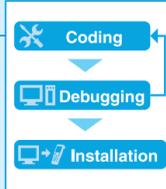
• A simple business application software (Easy Pack Ad) allowing collection of actual records for inventory and inspection plus 1:1/1:n collation is included as standard equipment.  
• No other devices are required for data transmission.

**Easy-to-use battery-powered terminal\***

• Even in the case of sudden loss of battery power, commercially-available dry-cell batteries can be used.  
\*A dry-cell adapter is separately required.

**BHT OS** Equipped with BHT-BASIC.

• Equipped with a development tool to help develop all kinds of applications. Coding, debugging and installation can be efficiently controlled.  
• Highly compatible, unique OS enables effective use of application assets.



**Solid middleware suited to customers' uses.**

• Various software applications are prepared in cooperation with partner companies across Japan. We introduce software applications best suited to the industry and implementation for each customer.

**Easy cloning with IrDA.**

• Copies of another terminal can be made easily.  
• BHT-OS model is as user-friendly as previous models, yet enables cloning with IrDA.

Compact model with ultimate usability

BHT-OS



\* Screen showing simulated images

## BHT-1300 SERIES

Dimensions	Unit: mm (for reference only)	Components
 2D code model with thin battery mounted	52.5	<Windows-OS model> <ul style="list-style-type: none"> <li>● Hand strap with stylus</li> <li>● Guidelines for operation</li> <li>* Battery and battery cover are not supplied with the product</li> <li>☒ Instruction manual</li> </ul> <BHT-OS model> <ul style="list-style-type: none"> <li>● Hand strap</li> <li>● Guidelines for operation</li> <li>* Battery and battery cover are not supplied with the product</li> <li>☒ Instruction manual</li> </ul>
 Barcode model with standard battery mounted	38.5	
 Barcode model with thin battery mounted	36	
	( * 28.5 mm with standard battery mounted ) ( * 24 mm with thin battery mounted )	

Software
<Windows-OS model> <ul style="list-style-type: none"> <li>● Development tools                             <ul style="list-style-type: none"> <li>• Windows Embedded Compact 7-based Software Development Kit for BHT* (SDK) ☒</li> <li>* This application software can be downloaded from our dedicated customer site only by customers who purchased Windows-based BHT.</li> </ul> </li> <li>● Preinstalled software                             <ul style="list-style-type: none"> <li>• Keyboard interface application software [kbiICE]</li> <li>• Launcher [Application Launcher]</li> <li>• Wireless setting tool [WLAN Manager]</li> <li>• Back-up tool [BHT Backup]</li> </ul> </li> </ul> <BHT-OS model> <ul style="list-style-type: none"> <li>● Development tools                             <ul style="list-style-type: none"> <li>• BHT-BASIC4.0 Development Pack</li> <li>• Easy Pack Ad for BHT-1300</li> <li>• BHT-BASIC4.0 Compiler</li> <li>• BHT-BASIC4.0 Remote Debugger</li> <li>• BHT-BASIC4.0 Transfer Utility</li> <li>• BHT-C software development kit ☒</li> </ul> </li> <li>● Preinstalled software                             <ul style="list-style-type: none"> <li>• Easy Pack Ad for BHT-1300 ☒</li> <li>• HTML browser</li> <li>• BHT Browser</li> <li>• Setup software</li> <li>• BHT Setting ☒</li> </ul> </li> <li>● Online system emulator</li> <li>• BHT Term Emulator</li> </ul> ☒ Items with this mark are available from the company's homepage (QBdirect) free of charge

## Option (sold separately)

<Windows-OS model>
● Holder, which performs data communication with BHT communication unit and the up-level device <ul style="list-style-type: none"> <li>• CU-1301A (RS-232C communications + recharging)</li> <li>• CU-1311A (Ethernet communications + recharging)</li> <li>• CU-1321 (USB communications + recharging) ☒</li> </ul>

	CU-1301A	CU-1311A	CU-1321
Between BHT and host	RS-232C	Ethernet (10BASE-T)	USB2.0
Communication mode			Full speed mode-compatible
Charging unit	Battery	Battery	Battery
Battery charge time	Approx. 3.5 hrs for standard battery/ Approx. 2.5 hrs for thin battery	Approx. 3.5 hrs for standard battery/ Approx. 2.5 hrs for thin battery	Approx. 10 hrs for standard battery/ Approx. 6 hrs for thin battery*
Size(mm)	109(D)×95(W)×111(H)		
Working voltage	AC adapter**		Supplied from USB port/AC adapter**

- \*1 Changes depending on the power supplying capacity of connected device: approx. 3.5 hrs for standard battery and approx. 2.5 hrs for thin battery when AC adapter is connected.
- \*2 The AC adapter is optional.
- Batteries/battery adapters
  - BT-130LA-CE-C (thin battery + battery cover) ☒
  - BT-130L-C (standard batteries + battery cover) ☒
  - BT-130L-CE-C (standard batteries + battery cover) ☒
  - BT-130LA (thin battery only) ☒
  - BT-20LB (standard batteries only) ☒
  - BT-20LB (standard batteries only) ☒
  - B-130D (adapter for drycell) ☒
- Soft case and others
  - SCBHT-1300 (soft case) ☒
  - WHBHT-1300 (waist case) ☒
  - EA-13B (touch scan attachment for barcode models) ☒
  - NSBHT-1300 (Neck strap) ☒
- Communication cable
  - CBBHT-US2000/C13-4A-CE ☒
  - \* The BHT-1300 can be charged by connecting it to a USB charger or other power adapter, or a PC USB port. When charging the BHT-1300, use a device that satisfies the following output and USB charging specifications.
- Recharger
  - CH-1104 (4 serial battery rechargers) ☒
  - CH-1354 (4 serial unit rechargers) ☒
  - CH-201A (Battery charger) ☒
  - CH-201B (Battery charger) ☒

	CU-1301	CU-1311	CU-1321
Between BHT and host	RS-232C	Ethernet (10BASE-T)	USB2.0
Communication mode			Full speed mode-compatible
Charging unit	Battery	Battery	Battery
Battery charge time	Approx. 3 hrs for standard battery/ Approx. 2 hrs for thin battery	Approx. 7 hrs for standard battery/ Approx. 4 hrs for thin battery*	Approx. 4 hrs for standard battery/ Approx. 4 hrs for thin battery*
Size(mm)	109(D)×95(W)×111(H)		
Working voltage	AC adapter**		Supplied from USB port/AC adapter**

- \*1 Changes depending on the power supplying capacity of connected device: approx. 3 hrs for standard battery and approx. 2 hrs for thin battery when AC adapter is connected.
- \*2 The AC adapter is optional.
- Batteries/battery adapters
  - BT-130LA-C (thin battery + battery cover) ☒
  - BT-130L-C (standard batteries + battery cover) ☒
  - BT-130LA (thin battery only) ☒
  - BT-20LB (standard batteries only) ☒
  - B-130D (adapter for drycell) ☒
- Soft case and others
  - SCBHT-1300 (soft case) ☒
  - WHBHT-1300 (waist case) ☒
  - EA-13B (touch scan attachment for barcode models) ☒
  - NSBHT-1300 (Neck strap) ☒
- Communication cable
  - CBBHT-US2000/C13-4A ☒
  - \* The BHT-1300 can be charged by connecting it to a USB charger or other power adapter, or a PC USB port. When charging the BHT-1300, use a device that satisfies the following output and USB charging specifications.
- Recharger
  - CH-1104 (4 serial battery rechargers) ☒
  - CH-1354 (4 serial unit rechargers) ☒
  - CH-201A (Battery charger) ☒
  - CH-201B (Battery charger) ☒

☒ Peripheral devices bearing this mark can be used for both Windows OS and BHT-OS models.