BHT-1600 series specification

Type			Wireless LAN model	Wireless LAN + protector model	Wireless LAN + wireless WAN model	Wireless LAN + wireless WAN + protector model
			BHT-1600QWB-A6-S	BHT-1600QWB-A6-RS	BHT-1600QWBG-A6-S	BHT-1600QWBG-A6-RS
OS			Android 6.0			
CPU			Cortex A53 Quad-core 1.3 GHz			
Memory	RAM		2.0 GB (0.8 GB for user area)			
	Flash ROM		16 GB (10 GB for user area)			
Display	Number of Dots*1		4.7 inch HD (720x1280 pixels)			
	Display system		Liquid crystal dot matrix display (color)			
	Back light		White LED			
Scanner	Read system		Area sensor			
	Readable codes	2D code	DataMatrix, MaxiCode, MicroPDF417, PDF417, QR code, Micro QR code			
		1D code	EAN-13/8 (JAN-13/8), UPC-A/E, Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), Codabar (NW-7), CODE39, CODE93, CODE128, Composite CC-A/B, Composite CC-C, GS1-128 (EAN-128), GS1 DataBar-14 (RSS-14), GS1 DataBar Limited (RSS Limited), GS1 DataBar Expanded (RSS Expanded)			
	Scanning reference position	2D code	0.167 mm			
		Barcode	0.125 mm			
	Reading reference position		120 mm			
	Maker		Cross guide marker			
	Scan Confirmation		Green LED, speaker, vibrator			
Keypad	Number of keys		Power key, 2 trigger keys, volume up key, volume down key			
Touch screen			Dragontrail glass, AF coating			
Communication	Wireless LAN*2	Compatible standards	IEEE802.11a/b/g/n compliant			
		Frequency band	IEEE802.11a/n: 5.2 GHz, 5.3 GHz, 5.6 GHz, 5.8 GHz band, IEEE802.11b/g/n: 2.4 GHz band			
		Transmission distance*3	IEEE802.11a: indoors = approx. 50 m, IEEE802.11b/g/n: indoors = approx. 75 m, outdoors = approx. 200 m			
		Transmission speed*3	IEEE802.11b: 11/5.5/2/1Mbps, IEEE802.11a/g: 54/48/36/24/18/12/9/6Mbps, IEEE802.11n: 65/58.5/52/39/26/19.5/13/6.5Mbps			
		Access method	Infrastructure mode			
		Security	WEP WPA/WPA2 Personal(PSK): TKIP, AES WPA/WPA2 Enterprize(EAP): TKIP, AES-PEAP/TTLS/TLS/PWD/SIM			
	Wireless WAN	Compatible standards	—		LTE/3G/GSM	
	Bluetooth®		Bluetooth Ver.4.1+BLE compliant (Compatible Profile) GAP, SDAP, HSP, SPP, GOEP, OPP, HFP (AG1.5), PAN, A2DP, AVRCP, GAVDP, HID, PBAP			
Card slot			micro SDHC/SDXC×1, micro SIM×2, micro SAM×1			
Power supply	Main battery		Lithium-ion battery (2960 mAh)			
	Operating time*4*5		24 hours		12 hours	
Additional functions			NFC: ISO1443A&B, ISO15693 (Felica), GPS: A-GPS/GLONASS			
Environmental requirements	Operating temperature*6		-20 to 50°C			
	Protection rating		IP67			
	Drop resistance*7		1.2 m × 36 times	1.2 m × 36 times, 1.8 m	1.2 m × 36 times	1.2 m × 36 times, 1.8 m
Weight (incl. battery)			Approx. 260 g	Approx. 320 g	Approx. 260 g	Approx. 320 g

*1: 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. *2: IEEE 802.11a: 5.2 GHz (W52) and 5.3 GHz (W53) are for indoor use only. *3: The communication distance and transmission speed shown are reference values, and may vary depending on the actual environmental conditions. *4: The described operating time is a reference figure under regular temperatures and may very depending on usage conditions. *5: Scanning: wireless communication: screen update: standby = 1:1:1:20. The vibrator and buzzer are disabled. The power save mode is ON (FastPSP). The wireless function is always enabled, and all other functions are disabled. *6: Zero to 35°C when batteries are being recharged. *7: Result obtained in a test under regular temperature is shown and not meant as a guarantee.
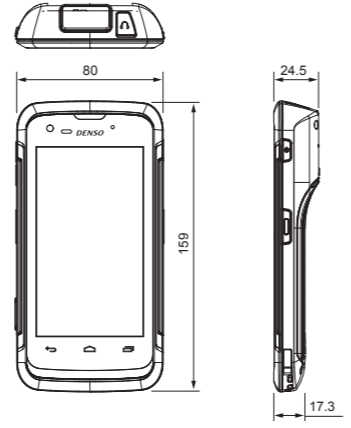
Option (sold separately)

● **Recharger**
- CH-1631 (Main unit charger)
- CH-1654 (4 serial unit rechargers) (To be released)
- CH-1604 (4 serial battery rechargers)

● **Case and others**
- Waist case (WHBHT-1600) (To be released)
- Stylus pen (PNBHT-1600)
- Hand-belt (HBBHT-1600) *For use with a protector use model

Components

● **Main unit** ● **Lithium-ion battery (BT-160LA)** ● **Hand strap** ● **AC adapter** ● **Micro USB cable**
● **Direct charging cable (CBBHT-US 1600/C 16-4A)** ● **Guidelines for operation** ● **Instruction manual** HP↓

Dimensions
Unit: mm (for reference only)

80
24.5
159
17.3

Software

● **Development tool**
- Software Development Kit for Android (SDK) dedicated for the BHT-1600 series

● **Preinstalled software**
- Code reading software (with a keyboard interface) [Reader Config]
- Software trigger key [Software Trigger]
- Application Launcher [AppLock]
- HTML5-capable custom browser [Android Browser for BHT-1600]
- File explorer [File Manager]
- Device configuration tool [MDS Client for Android] *Server (PC) side tool [MDS Android]
- Device management software [MobiControl Installer from SOTI]*
- OCR scanning software [OCR reader]*
- QR Code/SQRC scanning app [Qrcode reader Q installer]*
*Software available with payment of a fee. A license fee is separately charged for its use.

HP↓ Items with this mark are available from the company's homepage (QBdirect) 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 February, 2017.

1251G-1 2017.2

NEW

BHT-1600
SERIES

Robust, Large-Screen Handheld Terminal with Android 6.0

[Full size]
* Conceptual image

GLOBAL PRODUCTS

1 YEAR WARRANTY

Everything possible, in just one device.

Barcode/2D code scanning

SQRC®*¹/OCR*² scanning

Data viewing through LTE networks

DENSO
BHT-1600

Supporting field operations through GSM & SMS messaging features

Displaying job work instructions on large screen

Utilizes a wide variety of apps

*1: A cloud service, "Q platform®," for a fee
*2: Scanning via a special app for a fee

Various uses and security functions provide reliable support for the administrator

Newest Android OS to realize a wider range of use

Delivery and travel conditions in logistics field operations can be checked in real time at headquarters, using Android functions such as LTE communication and GPS function. The BHT-1600 series has a wide usage range, including auto-creation of a driver's daily report and as a portable digital tachometer.
The unit can share apps with other Android devices such as tablets. Being a universal OS, you won't have problems finding an app developer.

Multi-language development environment

A special SDK supporting JAVA, C#, and HTML5 is provided for the BHT-1600 series free of charge. The SDK incorporates full-fledged sample apps useful in any kind of development.
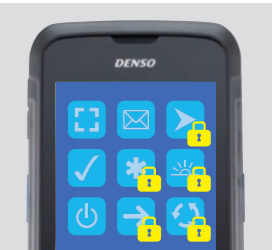
JAVA
C#
HTML5
Sample apps

4G LTE high-speed data communication

Featuring fast 4G LTE networking, the BHT-1600 series can conduct high-speed data communications. It can respond to various network in the field, while viewing sales results and checking job details on business trips.

App launcher blocks unneeded apps

A special app launcher has been preinstalled to limit access to apps for the operator. It blocks the use of apps unrelated to one's job and therefore strengthening all-round security.

IC card personal authentication strengthens security

Featuring NFC reading capability, the BHT-1600 series provides personal authentication for management control of employee entry cards. The device can be set up for different management authorities to ensure secure and flexable data exchange for each employee.

Robust and easy to use, helpful during field operations

Protection rating IP67 and 1.8 m drop resistance as stanard feature

The BHT-1600 series realizes an IP67 protection rating to ensure reliable operation in any harsh field environments. With the protector case model, an even better robustness with 1.8 m drop resistance can be achieved.

Ease of use for everyone

The BHT-1600 series features an easy-to-grip shape enabling a comfortable fit in the user's pocket. With an easy-to-press software trigger key that can be placed anywhere onscreen, everyone can enjoy a comfortable operation. The touch screen is designed for handheld operations even when wearing cotton work gloves*⁵ improves and helps operability in field operations. In particular, with the protector cover, which was designed for use under harsh conditions in the field of logistics, features a hand strap for their own stable use.
*5: Applicable gloves each have specific specifications.

Large 4.7-inch screen helps display an array of information clearly

The BHT-1600 is optimised for field operations where viewing information on the screen such as delivery address or work instructions is important.

4.7 inch

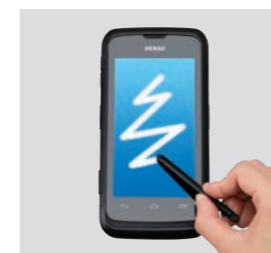### Integrated hot-swapping feature retains operational data when changing battery

The built-in backup battery retains data when the main battery is being changed. Your important data is kept safe even when swapping the battery in the middle of an operation.

Features Dragontrail*³ LCD screen for high scratch resistance

The BHT-1600 series features Dragontrail hard glass for its LCD screen. With its high resistance to scratches that can reduce vesibility, the touch screen of the business-use terminals is safely protected, giving all operators peace of mind.
*3: Dragontrail® and its logo are registered trademarks of Asahi Glass Co., Ltd.

Incorporated camera supports field operations

Featuring an 8 Mpx camera, the BHT-1600 series supports field service operators by enabling images taken at repair sites to be sent to headquarters for control purpose and to get the necessary information for the repair procedure.

24-hour operating time*⁴ even in continuous wireless operation

The unique energy-saving design realizes a 24-hour operating time, ensuring continuous operation without the need for frequent recharging.
*4: Only for BHT-1600QWB-A6-S/BHT-1600QWB-A6-RS.

24h
Access point