

# BHT-1100

Model w/camera BHT-1171BWB-CE  
Model w/o camera BHT-1170BWB-CE

Type	Model w/camera BHT-1171BWB-CE	Model w/o camera BHT-1170BWB-CE
OS	Windows Embedded CE6.0 R3	
CPU	32bit RISC 800MHz	
Memory	RAM	512MB
	Flash ROM	2.0GB
Display	Number of dots *1	320x480 dots (3.5" HVGA)
	Backlight	Liquid crystal dot matrix display
Scanner	Scanning system	Advanced Scan Plus (CCD)
	Readable codes	EAN-13/8 (JAN-13/-8) UPC-A/-E, UPC/EAN ( With add-on ), Interleaved 2 of 5, Standard 2 of 5, CODABAR(NW-7), CODE39, CODE93, CODE128, GS1-128(EAN-128), GS1 DataBar(RSS)
	Scanning distance	640mm(resolution 0.33mm) 1300mm(resolution 1.0mm)
	Minimum resolution	0.125mm
	Scan confirmation	Confirmation LED (3 colors: blue, red, green), speaker, vibrator
Keypad	Number of keys 36 keys (excluding power button) + 3 trigger keys	
Data transfer	Wireless I/F	IEEE802.11b/g/n compliant
	Frequency	2.4GHz
	Transmission distance**2	Indoor: 150m, Outdoor: 300m
	Standard, Number of channels**2	IEEE802.11b: 11/5.5/2/1Mbps, IEEE802.11g: 54/48/36/24/18/12/9/6Mbps IEEE802.11n: 65/58.5/52/39/26/19.5/13/6Mbps
Security	WEP40,128,WPA-PSK(TKIP,AES), WPA2-PSK(TKIP,AES), WPA-1x(TKIP,AES/EAP-TLS, PEAP), WPA2-1x(TKIP,AES/EAP-TLS, PEAP), 802.1x(EAP-TLS, PEAP)	
Bluetooth	Bluetooth Ver 2.0 + EDR Class 2	
Cradle I/F	RS-232C/USB client	
Card slot	microSDHC*1	
Camera	3.2Mpixel(1.3 megapixels)	-
Power supply	Main battery	Lithium-ion battery
	Operation hours	Approx. 17 hours (standard battery)/Approx. 25 hours (large capacity battery)**3
Additional features	Speaker, LED, vibrator, microSDHC	
Environmental requirements	Operating temperature	-20 ~ 50°C**4
	Protection level	IP54
	Drop resistance**5	1.2m drop on concrete floor, 10 times each on all 6 sides (total 60 times)/1.5m
Weight	380g	375g

\*1: The LCD panel is manufactured using high precision technology. Number of effective pixels is more than 99.99%, but please understand that less than 0.01% of the pixels may be missing or less lit. \*2: Transmission distance and speed are theoretical values and may differ according to actual usage environments. \*3: At the ratio of scanning/wireless transmission: screen transition:stand-by=1:1:1.20, wireless stand-by (power save on), and LCD backlight low. Featured values are for reference at room temperature, and actual operating hours may vary according to the usage environment. \*4: 0~40°C when charging. \*5: Experimental value at room temperature and is not guaranteed.

### Accessories (sold separately)

#### Transmission unit Cradle for data transmission between BHT and higher-end devices

- CU-1133 (RS-232C/USB transmission+main unit charging+backup battery charging)
- CU-1111 (Ethernet transmission+main unit charging+backup battery charging)



	CU-1133	CU-1111
Transmission method	RS-232C/USB2.0 Full speed compliant	Ethernet (100BASE-TX)
Charging time (main unit)	Backup battery: Approx. 3 hours, large capacity battery: approx. 4.5 hours	
Pre-charge	Backup battery: Approx. 3 hours, large capacity battery: approx. 4.5 hours	
Size	133(D) x 94(W) x 111(H)	
Power supply	AC adapter (AD3-1012/3000/02)	

#### Battery

##### Backup batteries for BHT

- BT-110LA (Standard type: 2300mAh/battery only)
- BT-110LA-C (Standard type: 2300mAh/battery+battery cap)
- BT-110L (large capacity type: 3450mAh/battery only)
- BT-110L-C (Large capacity type: 3450mAh/battery+battery cap)

#### Direct cable

##### Cables directly connecting BHT to higher end devices

- RS-232C type
- USB type

#### Soft case, etc.

- SCBHT-1100 (Soft case for BHT-1100)
- WHBHT-1100 (Waist case for BHT-1100)

### Warranty

Denso Wave offers 3 types of 'paid maintenance services' for the convenience of our customers.

\* Please visit our website for details.

#### For your safety

- Carefully read the instruction manual before operation and always use the device properly.

- Microsoft, Windows are registered trademarks or trademarks of Microsoft Corporation of the U.S. and other countries.

- The appearance, specifications, and other details are subject to change without notice for improvement purposes.
- The data in this catalog are current as of January 2012.

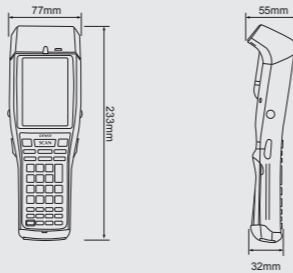
## Denso Wave, Inc.

Headquarter, 470-2297

1, Yoshiike, Kusagi, Agui-cho, Chita-gun, Aichi

### Dimensions

Unit: mm(all measurements are for reference only)



### parts

- Hand belt
- Stylus pen
- Operation guide
- User manual

\* Battery and battery caps are not included.

### Software

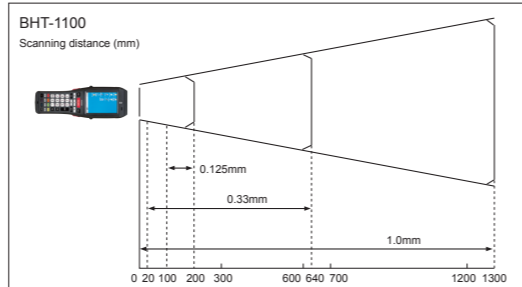
- Windows® CE Software Development Kit (SDK) specifically for BHT\*\*1
- Keyboard interface software [kbifCE]\*\*2

\*1: This software can be downloaded free of charge from the website available to customers who have purchased a Windows version of BHT.

\*2: This software has been pre-installed on your system.

HP Items noted with this mark are available for free downloads at our website (QBdirect).

### Reading and viewing distance



Can read and recognize max 1,300mm in depth!

Easy grip and large keyboard for easy handling!

Improved work efficiency with IEEE802.11n compliant high-speed wireless transmission!

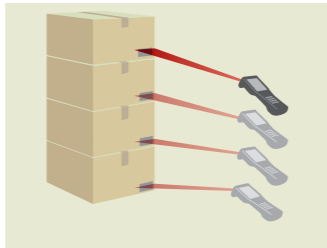
## Scan performance

Even blots or smears can't stand in the way of scanning with the new scan engine "Advanced Scan Plus" that matches performance of laser type scanners.

### Advanced Scan Plus Advantage ①

#### High-speed scanning

- The unique CCD method "Advanced Scan" has been evolved, achieving approximately three times the speed of laser type scanners.
- Stress-less quick scanning of continuous barcodes during inspection leads to reduced operation time.



### Advanced Scan Plus Advantage ②

#### Maximum scanning depth of 1,300mm

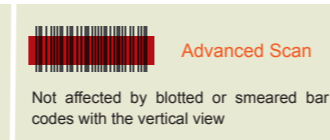
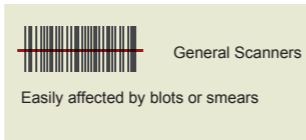
- From scanning at close to far distances, can scan up to 1,300mm away.  
※ JAN-13 (bar width 0.33mm) = Approx. 640mm  
ITF (bar width 1.0mm) = Approx. 1,300mm
- From floor to ceiling, easily scan without having to change positions.



### Advanced Scan Plus Advantage ③

#### Strong against blots or smears

- Quick and accurate scanning even when barcodes are partially not visible or dirty by reading the barcode in 2-dimensions rather than as lines. B120
- In addition to barcodes in poor condition, high density and wide barcodes can also be read.



## Design

Strictly strives for easy grip and operational convenience, always supporting repetitive tasks.

### Large screen of PDA-class and slim design



- The 3.5 inch large screen and easy grip allow for high operability. In addition, frequently used keys such as the numeric keypad/ENT/SCAN are centrally located at the top to minimize finger movement, reducing fatigue.

### Large keyboard is also easy to use with gloves.



### Tilt angle was based on thorough studies of actual usage.



- The angle was set based on studies of the direction in operation, minimizing screen glare in bright locations and maintaining high visibility.

### Highly stable grip



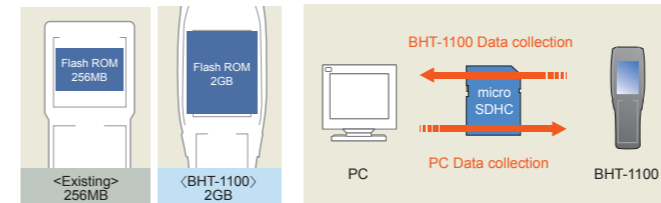
- Irregular surface on the back to ensure a sense of stability when held.
- Further increased stability with the hand belt.
- Stable operation with both the keys and stylus.

## Latest features

### Equipped with the latest OS

- Equipped with the latest version of Windows®CE6.0R3, delivering significantly increased processing speeds compared to conventional machines.

### Flash ROM 2GB, MicroSDHC compatible



- Flash ROM capacity significantly increased to 2GB. Work without worrying about memory.
- Also as external memory, the high-speed reading MicroSDHC is supported, allowing smooth data transfer within the BHT-1100 and from external data.

### Data backup using the new "BHT Backup"

- "BHT Backup" always lets you return to your routine task smoothly, even when the battery fails, by backing up data to the internal Flash memory or MicroSDHC.

### 1 terminal, 2 roles. Camera attached

※BHT-1171 BWB-CE only



- In addition to barcode scanning, take photos of defective goods during inspection on the spot without having to take out an additional digital camera.

## Durability

### Durability throughout the terminal



- Large elastic is attached to the tip of the barcode scanner to prevent damage upon large falls, securing high durability.
- Durable keypad where the key tops or letters don't come off.
- Proven durability, clearing drop resistance tests of 60 times at 1.2m in height. Allows for long use with peace of mind.

## Global Support

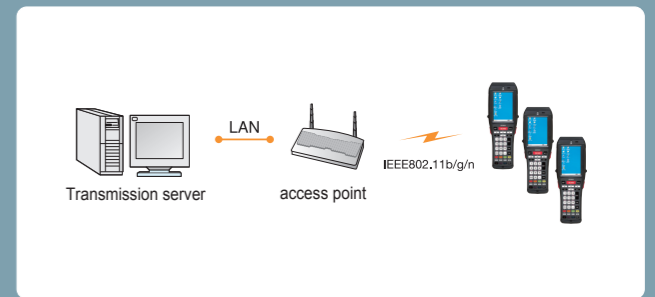
### Denso Group support, even abroad



- The global Denso Group network allows for full local maintenance and support, both domestically or abroad.
- Quick response in case repair is needed.

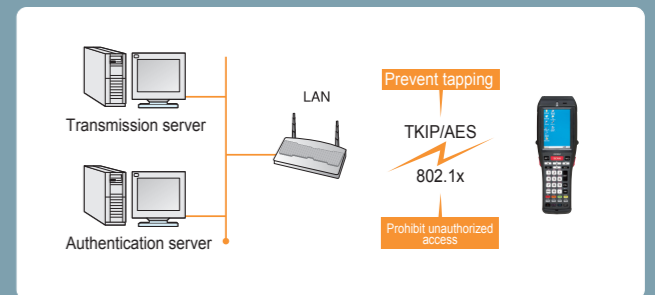
## Transmission

### Supports IEEE802.11n



- In addition to IEEE802.11b/g, boasts high speeds of up to 65 Mbps, and supports IEEE802.11n as well.
- Improved transmission response with the support of IEEE802.11n.

### Wireless LAN security



- Loaded with the highly reliable security technology, "WPA/WPA2" to prevent unauthorized access or theft.

### Bluetooth® transmission



- Built-in Bluetooth Ver. 2.0. Wireless communication possible with portable printer, PC, mobile phone, etc.

## Development tool

### Compatible with various development tools

- Microsoft Visual Studio 2008
  - Microsoft Visual C++<sup>※1</sup>
  - Microsoft Visual Basic<sup>※1※2</sup>
  - Microsoft Visual C#<sup>※1※2</sup>
- Microsoft Visual Studio 2005
  - Microsoft Visual C++<sup>※1</sup>
  - Microsoft Visual Basic<sup>※1※2</sup>
  - Microsoft Visual C#<sup>※1※2</sup>

※1: Development of applications using BHT specific features requires the library/class library included in the BHT specific Software Development Kit (SDK), which can be downloaded for free at our website (QBdirect).

※2: The BHT specific class library is compatible with the following versions:  
- Microsoft .NET Compact Framework 2.0/3.5

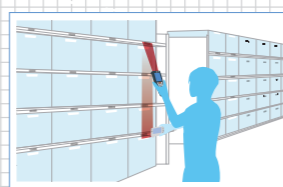
### Where can BHT-1100 be useful?

#### Picking in the backyard.



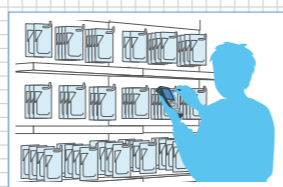
With the high-resolution, 3.5 inch large screen display, information on the screen is smooth and eyes don't fatigue even after long terms of use.

#### Storage inventory management



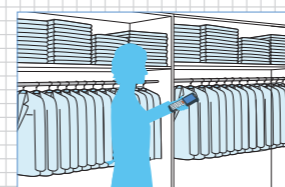
Even with stock shelved from the floor to ceiling, scan info on the spot without the hassle of stepladders, and shorten the time required for operation.

#### Inspection within the store



The large screen which allows excellent operability with much of the information necessary on one screen, reduce the time required for inspection despite masses of products.

#### Ordering within the store



With the wide coverage area and stable transmission speed of wireless both on-site or in large stores, orders can be made and inventor+B207y managed stress-free.