DENSO

Member of the TOYOTA Group

HANDHELD TERMINAL

BHT-1200

SERIES

ENTERPRISE CLASS RFID READER

Windows Embedded CE

Inventory Tracking has evolved

Scanning speed

Working hours reduced by **90%** or more (compared to use of barcodes)

The BHT-1281QULWB-CE is a high-powered RFID terminal with an overwhelming high scanning speed. The circular polarized antenna enables 360° scanning and reading of tags facing in different directions.

Simultaneous scanning of plural tags

Scanning distance

Class leading performance

approx. **5m**[*1]

With its long-range scanning capability, the BHT-1281QULWB-CE can easily scan tags on goods placed on high level storage, contributing to a significant improvement in operational efficiency.

Possibility of long range scanning

Overwhelming scanning performance and usability

- Outstanding operational and user-friendly product -

Easy to grip

BHT-1281QULWB-CE has an ergonomically designed pistol grip, that enables users to easily aim at tags. Furthermore, its light weight body minimizes operational fatigue.

Extended operation time

The unique power-saving feature enables best in class battery performance of approx. 60 hours[*2] when the wireless function is enabled as needed, and approx. 8 hours* even when RF tags are scanned continuously.

Drop resistant

In our drop test the BHT-1281QULWB-CE performed well after 30 drops from 1.2 m onto concrete giving you peace of mind in your operations.

Large screen - Easy operation

The BHT-1281QULWB-CE has a 3.5-inch HVGA colour liquid crystal display providing the clear easily readable display of information simultaneously on the large screen.

Fully-equipped basic functions

BHT-1281QULWB can scan not only RF tags, but also all barcodes. Furthermore, it is equipped with everything necessary for smooth operations, including a touch panel, wireless LAN and Bluetooth functions.

*1 Evaluation condition = Avery Dennison AD-237r6. The scan distance shown is a reference value and it may vary accordingly, depending on the actual enviromental conditions. *2 RF tag scanning: Wireless communication : screen update : standby = 1:1:1:20. The back light is at Low level, the vibrator and buzzer are disabled and the power save mode in ON (FastPSP), an the wireless function is enabled only when the terminal is connected to the wireless network; the wireless function is disabled otherwise. *3 When 50 RF tags are scanned simultanously with the back light at Low level, the vibrator is disabled and the speaker enabled.

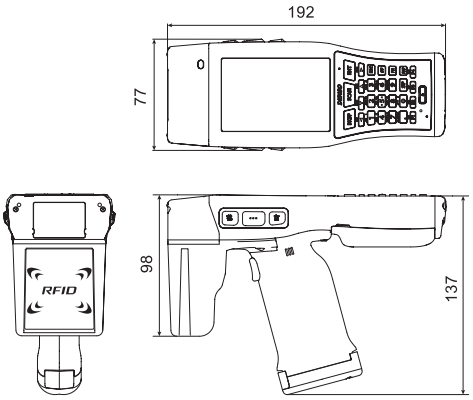
HANDHELD TERMINAL **BHT-1200** SERIES

BHT-1281QULWB-CE

			UHF band RF tag Handheld Terminal 1W high-power type
Model			BHT-1281QULWB-CE
OS			Windows® Embedded CE 6.0 R3
CPU			ARM Cortex-A8 800 MHz
Memory	RAM		Mobile DDR 512MB
	Flash ROM		2.0 GB
Display	Number of dots[1]		320 x 480 dots (3.5 inch HVGA)
	Display system		Liquid crystal dot matrix display (colour)
	Backlight		White LED
RFID	Readable and Recordable RF tag		ISO/IEC18000-6 TypeC (EPCglobal Class1 Gen2)
	Frequency	EU	865MHz - 868MHz
	Transmission output / Output adjustment		1 W or less / 20 levels
	Reading distance[2]		Approx. 5 m
Scanner	Reading system		Area sensor (CMOS)
	Readable codes	1D Codes	EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (Add-on embedded), Interleaved 2 of 5 (ITF), CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 DataBar (RSS)
		2D Codes	QR Code, Micro QR Code, SQRC, iQR Code, PDF417, Micro PDF417, Maxi code, Data Matrix (ECC200), GS1 DataBar Composite (EAN.UCC Composite)
	Minimum resolution	1D Codes	0.125 mm
		2D Codes	0.167 mm
	Light Source		Area guide marker (laser)
	Scan confirmation		Visual (2 colour LED), acoustic (signal sound) and haptic (vibration)
Keypad	Number of keys		31 keys (including power key) + 4 trigger keys
Network	Wireless LAN	Compatible standards	IEEE.802.11b/g/n compliant
		Frequency band	IEEE802.11b/g/n: 2.4 GHz band
		Transmission distance[3]	Indoors: 150m Outdoors: 300m
		Transmission speed[3]	IEEE802.11b: 11/5.5/2/1Mbps, IEEE802.11g: 54/48/36/24/18/12/9/6Mbps, IEEE802.11n: 65/58.5/52/39/26/19.5/13/6.5Mbps
		Security	WEP40/128, WPA-PSK (TKIP,AES), WPA2-PSK (TKIP,AES), WPA-1x (TKIP,AES/EAP-TLS,PEAP, LEAP, EAP-FAST), WPA2-1x (TKIP,AES/EAP-TLS,PEAP, LEAP, EAP-FAST), 802.1x (EAP-TLS,PEAP, LEAP, EAP-FAST)
	Bluetooth®		Bluetooth Ver.2.1+EDR based class 2
Card slot			MicroSDHC x 1slot (up to 32 GB)
Power supply	Main battery		2 Lithium-ion battery (2x 3450 mAh [high capacity= 6900 mAh)
	Operating time[4]	RF tag continous scanning[6]	Approx. 8 hours
		Wireless LAN communication[6]	Approx. 60 hours
Additional functions			Clock, speaker, vibration, battery charge level indicator, keypad backlight, G-sensor
Environmental requirements	Operating temperature[7]		-20° to +40° C
	Protection rating		IP54
	Drop resistance[8]		1.2 m drop on concrete floor, 5 times each on all 6 sides (test result after a total of 30 drops)
Weight (incl. stylus pen and battery)			approx. 570 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: Evaluation condition = Avery Dennison AD-237r6. The scan distance shown is a reference value and it may very accordingly, depending on the actual enviromental conditions.
3: Network range and transmission speed are logical variables and these may vary accordingly, depending on the actual enviromental conditions.
4: Operating times shown are reference values at room temperature and these may vary depending on the working conditions.
5: When 50 RF tags are scanned simultaneously with the back light at low level, the vibrator will be disabled and the speaker enabled.
6: RF tag scanning: Wireless communication, Screen update: Standby = 1:1:1:20. The back light is at low level, the vibrator and buzzer are disabled and the power save mode is ON (FastPSP), and the wireless function is enabled.
7: The temperature range rises from 0° to 40°C while charging.
8: This is a test not a guaranteed value.

DIMENSIONS (Unit mm - for refence only)



Software (Sold separately)

Development Tool

- Software Development Kit (SDK) for BHT Windows® CE *

*This software application is available free of charge from the site to customers who have purchased BHT Windows.

Preinstalled Software

- Keyboard interface software [kbifCE]*

*This software application is pre-installed on the system.

Items with this mark are available from the DENSO WAVE website (QBdirect) free of charge.

ACCESSORIES (Sold separately)

Communication Unit, which performs data communication with the BHT communication unit and the up-level device.

- CU-1233 (RS-232C/USB communication + main body charging + spare battery charging)
- CU-1211 (Ethernet communication + main body charging + spare battery charging)

	CU-1233	CU-1211
Communication mode	Comply with RS-232/USB2.0 Full speed	Ethernet (100BASE-TX)
Charging time (main body)	High-capacity battery: approx. 9 hours (two batteries are charged simultaneously)	
Spare battery charging	High-capacity battery: approx. 4.5 hours	
Size	133 (D) x 97 (W) x 101 (H)	
Power supply	AC Adapter (AD3-1012/3000-02) *	

* The AC Adapter is optional

Communication Cable

- CBBHT-US1800/C12-4A
  The BHT-1281QULWB-CE can be charged by connecting it to a USB charger. When charging the BHT-1281QULWB-CE, use a device that satisfies the following output and USB charging specifications.
  Output specifications: (voltage) DC5±0.25/(current) 1.2A or higher

Battery

- BT-110L (High-capacity battery only)
- BT-120L-C (High-capacity battery + battery cover)

Charger

- CH-1104 (Four-battery charger)
- CH-1254 (Four-device charger)

Waist Case

- WHBHT-1281QULWB-CE

Hand Strap

- SPBHT-1200QU

Components

- Device
- Stylus pen
- Guidlines for operation
- Instruction manual

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