DENSO
Automatic Data Capture

INVENTOR OF
THE QR CODE®

BHT-M80

Fueled by DENSO's most powerful original scan engine, the BHT-M80 hand-held terminal combines mighty power, multi-functionality, and intuitive ease-of-use. Ideal for applications in logistics, manufacturing, retail and healthcare, BHT-M80 also includes software that even non-coders can use to create applications to easily streamline their workflows and business processes. It has IP67 durability, supports WiFi and cellular communications, and has an ergonomic design.

Work Efficiency

Range – Scan worry-free from distances of less than 2 inches to 5 feet or more.
Speed – Handle up to 30 scans per second.
Accuracy – With advanced scan engine, now you can read codes:
• through glass, wrapping film, tape, and reflective and or crinkled surfaces.
• that are stained, smudged, blotted, dirty, deformed, or poorly printed.
• blurred, stained, or distorted.

Usability

High Visibility
• The 5-in. high-resolution display affords exceptional readability — even in full sunlight.
• Automatically adjusts brightness for optimum visibility in any ambient light.
• Trouble-free touch operation — even with gloved hands and with water on the screen.
Comfort
• Ergonomic design avoids fatigue with extended use.
• Angled scan head is optimal for reading codes overhead and below the knees.

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Specifications

Model	BHT-M80-QWG	BHT-M80-QW
OS	Android™ 10	
CPU	Qualcomm® SDM660 64 bit 2.20 GHz (Octa-Core)	
Memory — RAM	4 GB	
Memory — Flash ROM	64 GB	
Display — Screen size & resolution	5 inch HD (720×1280)	
Display — Display device	Dot matrix liquid crystal display (colour) *1	
Display — Backlight	White LED	
Reader — Reading method	Area sensor	
Reader — Supported code — 2D code	QR code®, Micro QR code, SQRC®, PDF417, Micro PDF417, Maxi code, Data Matrix (ECC200), and GS1 Composite	
Reader — Supported code — Barcode	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-on), and Interleaved 2 of 5 (ITF), Codabar (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), and Standard 2 of 5 (STF), GS1 DataBar (RSS)	
Reader — Supported code — OCR	Supported *2	
Reader — Minimum resolution — 2D code	0.127 mm	
Reader — Minimum resolution — Barcode	0.076 mm	
Reader — Marker	Cross guide marker	
Reader — Reading confirmation	Blue LED, speaker, and vibration	
Keys — Number of keys	5 keys (including power key) + 2 trigger keys	
Touch Panel	Asahi Dragontrail™ Pro *3 - wet touch / gloved fingertip /stylus	
Communication — Wireless LAN connection — Standard	Compliant with IEEE802.11a/b/g/n/ac and MU-MIMO 2x2	
Communication — Wireless LAN connection — Frequency	5 GHz-band (W52, W53, and W56, W58), 2.4 GHz-band (1 to 13 channels)	
Communication — Wireless LAN connection — Security	Encryption:OPEN, Enhanced Open, WEP(40/128), TKIP and AES / WPA authentication: WPA and WPA2 and WPA3 / User authentication: PSK, EAP-TLS, and PEAP	
Communication — WWAN	Supported: GSM/W-CDMA/LTE and VoLTE / FDD-LTE (4G) - Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 19, 20, 25, 26, 28 / W-CDMA/UMTS/HSPA/HSPA+ (3G) - Bands 1, 2, 5, 6, 8, 19 / GSM/GPRS/EDGE (2G) - Bands 850, 900, 1800, 1900MHz	–
Communication — GPS	A-GPS/GLONASS/QZSS/BeiDou/Galileo	–
Communication — Bluetooth®	Bluetooth® Ver5.1+EDR/LE / Supported Profile: RFCOMM/A2DP/AVCTP/ACDTP/GVDP/AVRCP/DUN/DI/HFP/HID/HSP/IOP/MAP/OPP/BNEP/PAN/PBAP/SAP/SPP	
Communication — USB	USB2.0 (Type-C)	
Communication — NFC *4	ISO/IEC14443A&B and FeliCa, ISO/IEC15693 (RFID)	
Camera	Front 5MP autofocus, Rear 13MP autofocus	
Card slot	microSD (SDHC and SDXC (up to128 GB)) / SDHC Speed class 4 supported / nanoSIM×2 DSDV (4Gx4G)	
Microphone receiver	Attached *5	
Speaker	90dB or more at 10 cm distance (at 2.8kHz)	
Sensor	G-sensor, gyro sensor, proximity sensor, light intensity sensor, and geomagnetic sensor	
Power supply — Main battery	Lithium-ion battery: 4,020mAh / 5,800mAh	
Power supply — Quick charging	Supported (Quick charge 3.0)	
Power supply — Operating time *8	4,020mAh battery: 20hours *9 / 5,800mAh battery: 29hours *9	
Environmental requirements — Operating temperature *6	-20°C to 50°C	
Environmental requirements — Operating humidity	20 to 80%RH (non-condensing and non-icing)	
Environmental requirements — Protection rating *7	IP65 / IP67	
Environmental requirements — Drop resistance *7	60 or more drops from 1.5 m, 2.5 m	
Weight (incl. battery)	ca. 365g (incl. BT1) / ca. 395g (incl. BT1L)	

*1. The LCD display is manufactured with precise technology.The rate of non-defective pixels is 99.99% or more, which means that 0.01% or less pixels could be stuck or dead.
*2. Lincense is required.
*3. Dragontrail® Pro is a registered trademark of AGC Inc.
*4. Before using the NFC function, perform test reading sufficiently using the target NFC card.
*5. A headset or headphone can be connected through the USB Type-C cable. A USB Type-C-to-audio jack (3.5 mm) conversion cable is optional.
*6. 0°C to 40°C during charging.
*7. These are the values tested at a room temperature, and not guaranteed values.
*8. The operating time is a reference value at a room temperature and may differ depending on the operating conditions.
*9. This is a result of measurement based on the JEITA HT Standard Operation Mode G, and may change depending on the operating environment and system settings.

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QR Code is a registered trademark of DENSO Wave, Inc. | ADC-BHT-M80-PS-0821

Durability
• Drop Resistant – withstood 6 drops at 2.5 meters, 60 drops from 1.5. meters and 2,000 drops from 1 meter.
• IP67 compliant to dust & water.
• Tempered glass screen (DragonPro®).

Performance
• Processing Power – with a Qualcomm® SMD 660 CPU (64-bit Octa-Core 2.2 GHz) you can handle multiple apps and data flows simultaneously.
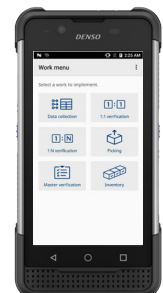
Connectivity
• In addition to 4G LTE speed, the BHT-M80 supports Wi-Fi, Bluetooth, and VoLTE with Google Mobile Services.

BHT-M80-QW   BHT-M80-QWG
84   40
167
25

Dimensions

• SDK
• Scan Settings
• BHT Booster
• BHT Link
• BHT DMS
• BHT Settings
• Battery Monitor
• WLAN Manager
• BHT Remote
• Application Launcher
• BHT Security Package
• BHT Browser

Software