DENSO
DENSO WAVE

MOBILE COMPUTER
BHT-S40
SERIES

Driven by quality.

Tailor-made for your hands

Made for the easiest and most comfortable scanning ever:
The BHT-S40 with keyboard.

The BHT-S40 captures the essence of what DENSO is all about: You!

Easy handling: With its ergonomic shape, hand fitting size and light weight, the BHT-S40 feels like a natural extension of your hand.

Perfect scanning: Equipped with a state of the art scan engine in its core, it captures data in a breeze.

EXCELLENT OVERVIEW:

With the 3.2˝ screen everything that matters is in sight.

3.2˝

ERGONOMIC GRIP:

Shaped for a maximum ergonomic experience the BHT-S40 fits perfectly even into small hands.

LONGEVITY IS KEY:

The keys are made out of durable acrylic, giving them high longevity and offering superior haptics.

ACCESSIBLE:

The keys' and LEDs' colour scheme is adjusted so that users with colour blindness can easily differentiate bewtween them

RELIABLE OPERATION:

Thanks to DENSO's original DENSO-OS you will receive long term support and have the advantage of stable operation.

Focussing on the user's needs:
The application areas.

The BHT-S40 demonstrates its capabilities especially where data has to be collected and processed in bulk. Its ergonomic concept, optimum view of the display and easy-to-use functions are perfect for speeding up reading processes.

Its great robustness makes the BHT-S40 ideal for countless indoor and outdoor applications.

These are just a few examples of its wide range of applications.

ORGANIZE LOGISTICS

Scan and locate your deliveries in real time using wireless LAN* – for tracking and tracing and improved route planning.
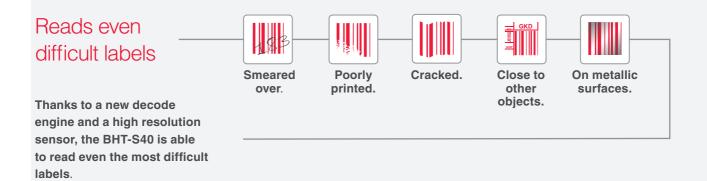
OPTIMISE FIELD SERVICE

Record the process status and progress immediately on site and communicate with head office whenever you need to – via wireless LAN*.

PROFESSIONALISE RETAIL

Whether it's for warehousing, ordering or sales management, collect data with precision – even if codes are damaged.

* depending on model
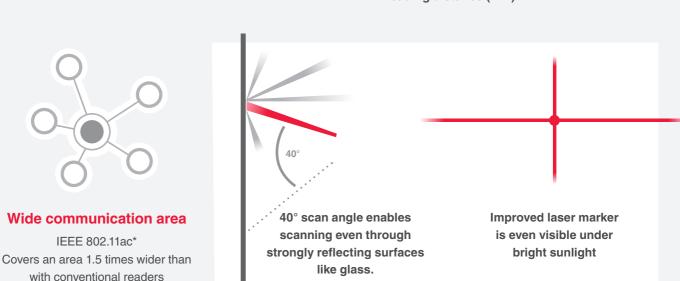
The result of continuous perfectionism:
The technical highlights.

Wherever better performance is demanded, technology has to progress.
The BHT-S40 makes advanced automatic ID technology the standard.

Reads even difficult labels

Smeared over.

Poorly printed.

Cracked.

Close to other objects.

On metallic surfaces.

Thanks to a new decode engine and a high resolution sensor, the BHT-S40 is able to read even the most difficult labels.

Superior scanning range

ITF 1 mm

Conventional Terminal

BHT-S40

EAN-13 0.33 mm

Conventional Terminal

BHT-S40

QR 0.25 mm

Conventional Terminal

BHT-S40

0	500	1000	1500

Reading distance (mm)

40°

Wide communication area

IEEE 802.11ac*
Covers an area 1.5 times wider than with conventional readers

40° scan angle enables scanning even through strongly reflecting surfaces like glass.

Improved laser marker is even visible under bright sunlight

Tested to the extreme.
It wouldn't be DENSO otherwise.

Innovation simply for the sake of innovating is not what DENSO's about.
The BHT-S40 has passed our rigorous quality tests for robustness
and durability, **even in the harshest conditions.**

3 YEAR warranty

Battery life
perfect for long
working hours.

Works at extreme
temperatures
from
**-20° to +50°
Celsius.**

2.50 metres

**Survived
umpteen
fall tests**
from heights
of up to 2.5 m.

Ultra-lightweight
makes it ideal for long term
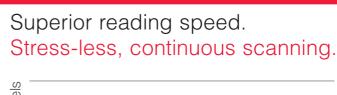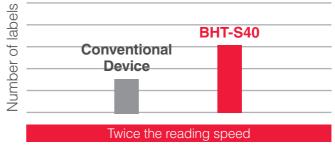use.

**IP65-
certified**
protection against
water and dust.

SCANS QUICKLY AND EFFORTLESSLY THANKS TO ADVANCED TECHNOLOGY FROM DENSO.

**It is no secret anymore that mobile data
capture devices are a much faster option for
processes like goods receipts or stock takings
than the pen and paper method.** The BHT-S40
accelerates those processes even more: thanks
to a new decode engine combined with a high
performance CPU, which leads to two times faster
scannings than with conventional readers.

Superior reading speed.
Stress-less, continuous scanning.

Number of labels

BHT-S40

**Conventional
Device**

Twice the reading speed

SPECIFICATIONS

Model	BHT-S40-Q	BHT-S40-QW	BHT-S40-B	BHT-S40-BW
OS		Original DENSO-OS		
CPU		32-bit RISC microprocessor		
Memory Flash ROM		128 MB (with a user area of approx. 84 MB)		
Display Screen size & resolution *1		3.2" WVGA (480×800 dots)		
Display device		Dot matrix liquid crystal display (color)		
Number of displayed characters *2 — Small font		10 chrs. × 15 lines (full-width) or 20 chrs. x 15 lines (half-width) (QVGA-compatible mode: 10 chrs. x 13 lines (full-width) or 20 chrs. x 13 lines (half-width))		
Number of displayed characters *2 — Standard font		8 chrs. x 12 lines (full-width) or 16 chrs. x 12 lines (half-width) (QVGA-compatible mode: 8 chrs. x 10 lines (full-width) or 16 chrs. x 10 lines (half-width))		
Backlight		White LED		
Reader Reading method		Area sensing		Advanced Scan Plus (CCD)
Supported code — 2D code		QR Code, Micro QR Code, SQRC, PDF417, Micro PDF417, Maxi Code, Data Matrix (ECC200), and GS1 Composite		-
Supported code — Barcode		EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-on), Interleaved 2 of 5, Codabar (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), Standard 2 of 5 (STF), and GS1 DataBar(RSS)		
Minimum resolution — 2D code		0.127 mm		
Minimum resolution — Barcode		0.076 mm		0.125 mm
Marker		Cross guide marker		-
Reading confirmation		3 color (blue, red, and green) LEDs, speaker, and vibrator		
Keypad Number of keys		25 keys + 3 trigger keys		
Communication Wireless LAN connection — Standard	-	IEEE.802.11ac/ a/b/g/n	-	IEEE.802.11ac/ a/b/g/n
Wireless LAN connection — Frequency	-	5.2GHz, 5.3GHz, 5.6GHz, 2.4GHz	-	5.2GHz, 5.3GHz, 5.6GHz, 2.4GHz
Wireless LAN connection — Access method	-	Infrastructure mode and ad-hoc mode	-	Infrastructure mode and ad-hoc mode
Wireless LAN connection — Security	-	Encryption: WEP (40/128), TKIP, and AES WPA authentication: WPA and WPA2 User authentication: PSK, EAP-TLS, and PEAP	-	Encryption: WEP (40/128), TKIP, and AES WPA authentication: WPA and WPA2 User authentication: PSK, EAP-TLS, and PEAP
Bluetooth®		Bluetooth® Version 5.0+EDR/LE (Supported profiles: GAP, SPP, HID, DUN, and GATT)		
USB		USB2.0 (Type-C)		
Power supply Main battery		Lithium-ion battery		
Operating time *4 — BT2 (3200 mAh)	95 hour *5 / 25 hour *6	95 hour *5 / 40 hour *7	98 hour *5 / 27 hour *6	98 hour *5 / 42 hour *7
Card slot		FAT32-compliant microSD or microSDHC (up to 32 GB) × 1		
Additional functions		Clock, speaker, vibrator, battery voltage indicator, keyboard backlight, and remote wakeup		
Environmental requirements Operating temperature *3		-20 °C to 50 °C		
Operating humidity		20 to 80%RH (non-condensing and non-icing)		
Protection rating		IP65		
Drop resistance		10 drops for each of the six faces downward on a concrete floor 1.5 m below (a total of 60 drops), 2.5 m		
Weight (incl. battery)		Approx. 256 g		

*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. The small font is 48-dot size and the standard 60-dot size. There are also 24-dot, 30-dot, and 40-dot fonts.
*3: 0 °C to 40 °C during charging.
*4: The operating time is a reference value at a room temperature and may differ depending on the operating conditions.
*5: With one reading pass over a 5s period. Backlight is on when scanning.
*6: 1 cycle 30 seconds = scanning (1 second), Bluetooth communication (transmission 1KB), rewriting of screen (1 second) and holding durations. Backlight is on when scanning, Bluetooth communication, rewriting of screen.
*7: When ratios of scanning, wireless communication, rewriting of screen and holding durations are 1:1:1:20. Backlight is on when scanning, wireless communication, rewriting of screen.

SOFTWARE

- BHT-BASIC4.0 Develop Pack
- BHT-BASIC4.0 Computer Transfer Utility
- BHT-BASIC4.0 Remote Debugger
- Transfer Utility
- BHT Browser
- BHT Term Emulator
- BHT Setting
- BHT Manager
- SQRC Setting

ACCESSORIES (sold separately)

Communication / Charger

- USB type: CU-S40U
- LAN type: CU-S40L
- RS232C type: CU-S40R
- 4-device charger CH-S40-4
- Battery charger CH-BT2
- 4-battery charger CH-BT2-4

Batteries

- BT2 (3200 mAh)

Others

- Hand srap
- Neck strap
- Waist case
- Soft case

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