

Note

Read the user manual carefully before operating the device. Technical data may change at any time and without prior notice.  
Status of data: May 2006.

Accessories

- Stylus
- Battery
- Hand Strap

Optional accessories (not included)

- Modular (Multistation) cradle
  - RS232
  - USB
  - LAN
  - Charging only
  - Optional Config
    - 1 Slot
    - 2 Slot
    - 4 Slot
    - 5 Slot, etc.
  - Compatible with other models.
- Vehicle charger

Modular Cradle

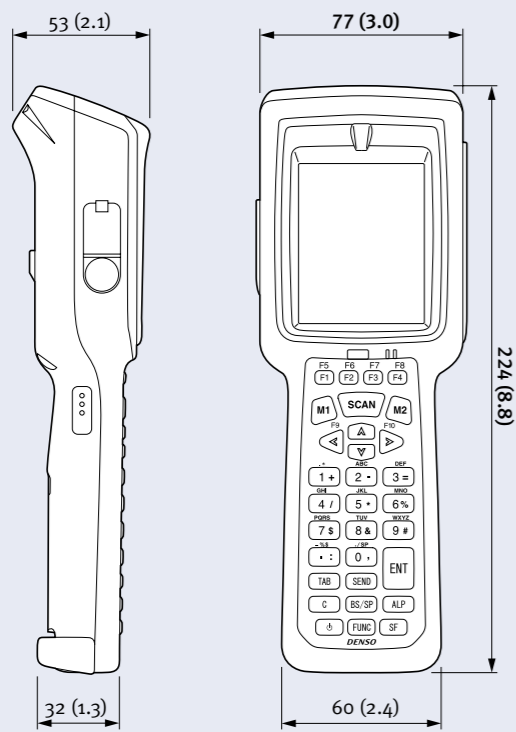


Modular Cradle



Vehicle Charger

Dimensions in mm (inch)



# DENSO



Global Leader in Advanced Technology



## BHT-400 Series

Taking mobility to the highest level



# BHT-400 Series – The mobile data manager designed for the retail supply chain

The DENSO BHT400 has been designed to provide customers with the most ergonomic mobile terminal, suitable for scanning all day without stress and reducing fatigue.

The BHT400 is the lightest in its class and the featured angled scan head minimises operator movement to scan barcodes and key data.

The bar for mobility and flexibility has been raised as the BHT 400 series can be connected to a PC, portable printer, modem or access point via Bluetooth or 802.11 b/g RF.

The high speed processor (520 MHz) provides fast processing thanks to the latest operating system platform (Windows CE 5.0).

A complete range of software tools are available:

- SDK for development (WIN CE environment)
- Terminal emulation software
- Web browser
- Terminal services
- Advanced scan wedge software
- Remote update/ management
- and many more.

Features a long battery life for WinCE terminals:

- 9 hours RF\*
- 15 hours batch\*

Including DENSO's advanced battery management utilities.

\* barcode read, RF Com, display, wait 1:1:1:20sec (vibrate, beep, backlight OFF)



User-friendly thanks to ergonomic design and generously-sized keyboard

## Ergonomics

- Gun style grip
- Angled scan head
- Contoured full length handle
- Light weight (360 grams)
- Well spaced keys

## Scanning

- Advanced CCD technology
  - Standard Laser scan distance 62 cm (1.0 mill barcode)
- Optimal detection (even poorly legible barcodes)
- Laser pointer for targeting

## Communication

- RF 802.11b/g 54 MBPs
  - With latest security
- Bluetooth® VN 1.2
- GPRS
- USB, Serial 115KBPs via direct cable
- Infra Red IrDA SIR V1.2
- CF slot – CF memory card
- USB, Serial and ethernet cradles



Gun grip form factor - operator can scan while viewing the screen due to angled scan head and contoured handle.

## Performance and quality

### Functions for greater flexibility

- In addition to the standard numeric keypad, central & peripheral trigger buttons start the scanning process
- Comfortable for right and left handers.

### Latest technology using Industry standards:

- ¼ VGA 320x240 touch sensitive 65K colour screen
- Standard 64 M RAM / 64 M ROM
- CF memory card can be used for extra memory
- Windows® CE 5.0
- Extensive software package makes it easy to develop new applications



## Signals for reliable scan acknowledgment

In addition to LED (blue/red), the device has an integrated beeper and **vibration** signal. This ensures that successful scanning operations will be reliably acknowledged even in a loud environment or outdoors.

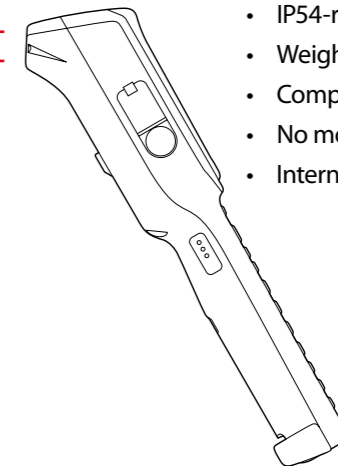
## Advanced CCD technology

- No moving parts.
- Exceptionally robust interior.
- Similar distance to standard laser

Scanning Distance up to 62cm

42cm (0.5 mil barcode)

62cm (1.0 mil barcode)



## Robust design

- DENSO quality
- Impact resistant (1.2m)
- Water resistant
- Soil resistant
- IP54-rated
- Weighs only 360 grams
- Compact : Approx 224 x 78 x 53mm
- No moving mirrors
- Internal scan head

## Technical Data

	BHT-420BB-CE	BHT-420BW-CE	BHT-470BW-CE	BHT-420BWG-E
<b>Controller</b>				
CPU	PXA 270 (520 Mhz)			
Memory	RAM: 64 MB Flash ROM: 64 MB User area 32 MB			
<b>Display</b>				
Resolution	240 x 320 (QVGA)			
Display Device	Liquid crystal dot matrix			
Back Light	LED			
<b>Scanner</b>				
System	Advanced CCD Scanning			
Scanning- Area	620 mm (1.0mm barcode)			
Scanable Codes	EAN-13/-8, UPC/EAN (with add-on codes), CODABAR (NW-7), CODE 93, Interleaved 2 of 5, CODE 128 (EAN-128), STF, MSI			
Resolution	0.125			
Scanning Confirmation	2-colour LED (red and blue), buzzer, vibrator			
<b>Keypad</b>				
Number of Keys	31 keys (numeric keyboard) + 2 Trigger keys	50 Keys (Full Alpha)	31 keys + 2 Trigger keys	
<b>Card Slot</b>	Compact Flash Slot			
<b>Communications</b>				
Infrared I/F	Standard	Infra-red (IrDA 1.2 compliant)		
Speed		115.2 kbps		
Range		Approx. 0.15 m		
Wireless I/F	Standard	-	IEEE802.11b/g	
Frequency		-	2.4 Ghz	
Range		-	TBA	
Modulation		-	OFDM, DSS	
Speed		-	54 Mbps Max	
Security		-	WEP, WPA	
Bluetooth	Bluetooth® Ver. 1.2 Compliant Class 2		EAP-TLS, PEAP	
<b>GPRS</b>				GPRS WAN
<b>Power Supply</b>				
Main Battery	Lithium-ion battery cartridge			
<b>Environment Requirement</b>				
Operating Temp.	-5°C to 50°C			
Water/Dust proof	IP 54			
Shock Resistance	1.2m (30 times on concrete floor)			
<b>Weight</b>	360 g	360 g	360 g	395 g