

# H-25

## Rugged Mobile Device



Windows CE 6.0

Wi-Fi

USB

MicroSD I/O

### + Features and Benefits

- Rugged and durable mobile device that features an ergonomic design
- Windows CE .NET 6.0 Professional
- Choice of 1D laser or 2D imager barcode scanner
- Marvell® XScale PXA310 624 Mhz Processor
- Memory: 128MB RAM and 256MB ROM and user accessible MicroSD
- 2.8" transmissive graphic TFT color touchscreen display with adjustable LED backlight, 240 x 320 pixels (portrait)
- Communication: USB Version 2.0, Bluetooth - Version 2.1 + EDR, class 2 and W-LAN - 802.11 b/g
- Enhanced numeric backlit keyboard
- High capacity Lithium-Ion 3.7V 1840mAh battery
- IP64 rating against dust and moisture, 4 foot drop to concrete
- Compact size: 2.44" x 5.67" x 1.03-1.41" (WxHxD), 8.2 ounces including battery
- Two year warranty

## Operation

- **CPU:** Marvell® PXA310 624Mhz 32bits RISC
- **OS:** Windows® CE .NET 6.0 Professional

## Memory

- **Flash ROM:** 256 MB
- **RAM:** 128 MB
- **Expansion:** User accessible microSD

## Display

- **Type:** Transmissive Graphic TFT, 4-Wire Resistance Type Touch Panel
- **Color:** 16-bit
- Adjustable LED Backlight
- **Size:** 2.8" 240 X 320 pixels

## Operating Indicators

- **Visual:** Two multi-color LED's
- **Audible:** Vibration

## Operating Keys

- One 12-key numeric backlit keypad
- Three barcode scanner buttons (one center, and two side buttons)
- Four navigation keys
- Application key

## Communication

- **USB:** One I/O port for DC-IN and USB 2.0 client function (supported by H25 single dock only) standard micro USB connector for USB 2.0 client function and charging (supported by standard Micro USB Cable)
- **Bluetooth:** Version 2.1 + EDR, class 2
- **W-LAN:** 802.11b/g; WLAN Encryption of Summit (WEP/ WEP EAP/ CKIP/ CKIP EAP/ WPA-PSK/ WPA TKIP/ WPA CCKM/ WPA2-PSK/ WPA2 AES); Built-in Multi RF, Cisco CCX Certified Ver. 4
- **Audio:** Speaker/microphone (mono)
- **Extension:** User accessible microSD I/O

## Power

- **Rechargeable Battery:** Standard Li-ion Battery Pack, 3.7V, 1840mAh
- **Backup Battery:** included
- **Charging Method:** Enclosed power supply, or USB cable; separate cradle
- Barcode Scanner Optics (Laser)
- **Light Source:** 650 nm visible laser diode
- **Scan Method:** Bi-directional scanning
- **Scan Rate:** 100 scans/sec

- **Reading Pitch Angle:** -35 to 0°, 0 to +35°
- **Reading Skew Angle:** -50 to -8°, +8 to +50°
- **Reading Tilt Angle:** -20 to 0°, 0 to +20°
- **Curvature:** R>15 mm (EAN8), R>20 mm (EAN13)
- **Minimum Resolution at PCS 0.9:** 5 mil (0.127 mm)
- **Minimum PCS Value:** 0.45
- **Depth of field (At PCS 0.9 Code 39):**  
39 mil (1.0 mm) 2.76-25.59 in (70-650 mm)  
20 mil (0.5 mm) 1.97-16.54 in (50-420 mm)  
10 mil (0.25 mm) 1.97-10.24 in (50-260 mm)  
6 mil (0.15 mm) 1.97-5.91 in (50-150 mm)  
5 mil (0.127 mm) 2.36-4.72 in (60-120 mm)

## Barcode Scanner Optics (2D Imager)

- **Light Source:** 650nm visible laser auto-focus sensor, Illumination LEDs
- **Scan Method:** CMOS area sensor, 900 x 512 pixels, gray scale
- **Scan Rate:** up to 80 fps
- **Image Format:** bitmap; jpeg
- **Reading Pitch Angle:** -50 to 0°; 0 to +50°
- **Reading Skew Angle:** -50 to 0°; 0 to +50°
- **Reading Tilt Angle:** 360°
- **Minimum Resolution (PCS 0.9):** 5 mil (0.127 mm)
- **Minimum PCS Value:** 0.45
- **Field of View:** Horizontal 40°, Vertical 23°
- **Depth of Field:**  
PDF 417: 5 mil (0.127 mm) 1.77-4.72 in (45-120 mm)  
PDF 417: 10 mil (0.254 mm) 1.97-10.6 in (50-270 mm)  
Data Matrix: 10 mil (0.254 mm) 1.77-5.91 in (45-150 mm)  
Code 39: 10 mil (0.254 mm) 1.77-10.2 in (45-260 mm)

## Supported Symbologies (Laser)

- **Barcode (1D):** JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Barcode (2D):** Composite, MicroPDF417, PDF417
- **Postal Code:** Chinese Post, Korean Postal Authority code

## Supported Symbologies (2D Imager)

- **Barcode (1D):** JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-I SMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- **Barcode (2D):** Aztec Code, Aztec Runes, Codablock F, Composite Codes, Data Matrix (ECC200/ EC0-140), Maxi Code (mode 2~5), Micro PDF417, Micro QR Code, PDF417, QR code
- **Postal Code:** Chinese Post, Korean Postal Authority code, Postnet, Intelligent Mail Barcode (IMB)

## Durability

- **Temperature:**  
Operation: -10 - 50 °C  
Storage: -20 - 60 °C
- **Humidity in Storage:** 5 to 95% (Non Condensing)
- **Drop Test:** 4 ft (1.2 m) drop onto concrete surface
- **Ingress Protection:** IP 65

## Physical

- **Dimensions (WxHxD):**  
2.44 x 5.67 x 1.03 ~ 1.41 in  
(62 x 144 x 26.2~35.8mm)
- **Weight Body:** 8.2 oz (235 g) (incl. battery)
- **Case:** black

## Regulatory and Safety

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- Product compliance: UL/ cUL, LVD, CB, CE, FCC, RoHS, WEEE, CC

## Enclosed Items

- Standard battery pack, AC adapter, USB cable, wrist band, Quick Start Guide, stylus + cord

## Sold Separately

- Single-slot desktop cradle
- High capacity battery pack (3.7V DC, 2760mAh) and battery cover
- Nylon holster

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