

H-32

Laser scanner

The H-32 is the ideal mobile computer for variety of mobile applications including merchandising, inventory management, asset tracking, field sales and service, inspection and verification.



Highlights

- Rugged mobile device that features an ergonomic design
- Windows Embedded Compact 7
- High speed 1D laser barcode scanner
- AM3354 ARM Cortex A8, 800 Mhz processor
- Memory: 256 MB NAND Flash, 256 MB RAM and user accessible Micros SDHC
- 2.8" transfective QVGA touchscreen display with white LED backlight, 240 x 320 pixels (portrait)
- Communication: USB - Micro USB OTG Version 2.0, Bluetooth - Version 2.1 + EDR and W-LAN - 802.11 a/b/g/n
- Enhanced 26 key numeric keyboard
- High capacity Lithium-Ion 3.7V 1800mAh battery
- Rugged: IP54 rating against dust and moisture, 1.5 m drop to concrete
- Compact size: 64.8 x 145.7 x 26.8 mm (W x H x D), 195 grams including battery
- Two year warranty

H-32

Product Specifications

Operation

CPU: ARM Cortex A8, 800MHz
O/S: Windows Embedded Compact 7
Software: Wordpad, Internet Explorer, Active Sync, Opticon scanner application, Upgradeable via integrated microSD card slot
RTC: Supports year, month, day, hour, minute, second (leap year support)

Memory

Nand Flash: 256 MB
RAM: 256 MB mobile LPDDR
Expansion: User accessible MicroSDHC

Display

Type: Transflective QVGA with touch panel, with white LED backlight
Size: 2.8", 240 x 320 pixels
Mode: Portrait

Operating indicators

Visual: 2 LEDs (red/green/orange scanning indication & charging indicator)
Non-visual: Vibrate, speaker

Operating keys

Entry options: 26 keys total, 12 key (alpha) numeric keypad, 4-way navigation keys, function key, backspace key, Enter key, Alpha key, Escape key, Shift key, 3 scan keys.

Communication

USB: Micro USB OTG, ver 2.0
Bluetooth: 2.1 + EDR
W-LAN: 802.11 a/b/g/n; WEP, WPA, WPA2; WEP, TKIP, AES; Static (40 and 128 bit), PSK (pre-shared), Dynamic; EAP, PEAP, LEAP; Cisco CCX version 4
Audio: Speaker
Extension: User accessible microSD

Power

Rechargeable battery: Lithium-Ion 3.7V 1800mAh (sold separately)
Backup Battery: fixed rechargeable Lithium-Ion 15mAh
Charging method: Through USB cable (enclosed item) or cradle (sold separately)

Barcode Scanner Optics

Light source: 650 nm visible laser diode
Scan rate: 100 scans / seconds
Reading pitch angle: $\pm 35^\circ$
Reading skew angle: -50 to -8° , $+8$ to $+50^\circ$
Reading tilt angle: $\pm 20^\circ$
Curvature: $R \geq 15$ mm (EAN8), $R \geq 20$ mm (EAN13)
Min. pcs value: 0.45
Depth of field at code 39: 60 - 120 mm (0.127 mm) / 2.36 - 4.72 in (5 mil), 50 - 150 mm (0.15 mm) / 1.97 - 5.91 in (6 mil), 50 - 260 mm (0.25 mm) / 1.97 - 10.24 in (10 mil), 50 - 420 mm (0.5 mm) / 1.97 - 16.54 in (20 mil), 70 - 650 mm (1.00 mm) / 2.76 - 25.59 in (39 mil)

2D Imager Optics

Light source: Aiming green LED, illumination LEDs
Light source: CMOS area sensor, 752 x 480 pixels, gray scale
Scan rate: Up to 60 fps
Image format: Windows Bitmap, JPEG
Gradulation: 256, 16, 2
Image format: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
Reading pitch angle: $\pm 50^\circ$
Reading skew angle: $\pm 50^\circ$
Reading tilt angle: 360°
Curvature: $R > 16$ mm (10-digit Codabar NW-7), $R > 20$ mm (12-digit UPC)
Min. pcs value: 0.3
Field of view: Horizontal 40.6° , Vertical 26.4°
Depth of field at code 39: 90 - 130 mm (0.127 mm) / 3.54 - 5.12 in (5 mil), 70 - 210 mm (0.254 mm) / 2.76 - 8.27 in (10 mil), 65 - 300 mm (0.508 mm) / 2.56 - 11.81 in (20 mil)
Depth of field at QR code: 95 - 120 mm (0.212 mm) / 3.74 - 4.72 in (8.4 mil), 60 - 200 mm (0.381 mm) / 2.36 - 7.87 in (15 mil)

Supported symbologies

Barcode (1D): AN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 Databar (RSS), IATA, ISBN,

Industrial 2of5, interleaved 2of5, Matrix 2of5, MSI/Plessey, Telepen
Postal Code: Chinese Post, Korean Postal Authority code
2D code: Composite Codes, MicroPDF417, PDF417, Codablock F, QR code, Micro QR Code, DataMatrix (ECC200), MaxiCode (modes 2 to 5), Aztec Code, Han Xin Code (Chinese Sensible Code), Passport MRZ (OCR-B)

Durability

Temperature in operation: -10 to 50°C / 14 to 122°F
Temperature in storage: -20 to 60°C / -4 to 140°F
Humidity in operation: 20% to 80% RH
Humidity in storage: 20% to 90% RH
Ambient light in 1D: Fluorescent 4,000 lx max, direct sun 80,000 lx max, incandescent 4,000 lx max
Ambient light in 2D: Fluorescent 10,000 lx max, direct sun 100,000 lx max, incandescent 10,000 lx max
Drop test: 1.5 m / 5 ft drop onto concrete surface
Protection rate: IP54

Physical

Dimensions (WxHxD): 64.8 x 145.7 x 26.8 mm / 2.55 x 5.74 x 1.06 in
Weight body: Ca. 195 g / 6.9 oz (inc. battery)
Case: Black

Regulatory & Safety

Product compliance: CE, FCC, RoHS, IEC60825-1 Class 2 (1D), FDA CDRH Class II (1D), IEC62471 (2D), EN55022, EN55024

Items

Enclosed: USB cable, Wriststrap, Quick start guide, Stylus + cord
Sold Separately: Rechargeable battery (3.7V 1800mAh), CRD-32 (single USB (active sync), Ethernet, communication, charging), CRD-32-E5 (Multi-cradle, 5 slots, Ethernet communication, charging), Holster