

H-22

Rugged Mobile Device



Highlights

- Rugged and reliable smartphone with fully integrated 1D laser or 2D imager barcode scanner
- Windows Mobile 6.5.3 for familiar and convenient navigation
- Marvell® PXA320 806MHz CPU
- 3.7" brilliant color transfective TFT touchscreen display, 480 x 640 pixels with adjustable backlight
- Communications: Bluetooth 2.1, Wi-Fi (802.11 b/g), WWAN (3G/3.5G), AGPS, USB and Infrared
- Rear facing 3.2 MP auto-focus digital color camera, LED flash
- Memory: 512 MB ROM, 256 MB RAM and user accessible microSD
- IP65 rating against dust and moisture, survives multiple 5 foot drops to concrete
- Compact form factor – 2.95" x 5.94" x 0.98" (WxHxD) and 12 ounces (including battery)
- High capacity 3.7 3060mAh Lithium-Ion battery
- Two year warranty

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Product Specifications

OPERATION

CPU: Marvell PXA320 806MHz
OS: Microsoft® Windows Mobile® 6.5.3

MEMORY

RAM: 256MB
ROM: 512MB
EXPANSION: User accessible microSD + HC

DISPLAY

TYPE: Blanview VGA TFT LCD, 262k color, touch panel, backlight
SIZE: 3.7", 480 x 640 pixels
MODE: Portrait / Landscape

OPERATING INDICATORS

VISUAL: 1 LED (red/orange/green)
AUDIBLE: Vibrate, Buzzer

OPERATING KEYS

ENTRY OPTIONS: (alpha)Numeric or QWERTY keyboard, navigation key (scroll + select), function keys (3 dedicated, 7 fn key enabled), control keys, 2 phone keys, reset key, volume key, 4 scan keys, reconfigurable

COMMUNICATION

USB: OTG, client and host
IRDA: Version 1.4, 2400 bps - 115.2 kbps (SIR), 576 kbps - 1.152 Mbps (MIR)
BLUETOOTH: Version 2.1 + EDR, class 2
W-LAN: WiFi, IEEE.802.11b/g/n
TELECOM: GPRS/EDGE (quad-band 850/900/1800/1900), 3G UMTS (WCDMA band 1, II, V, VI, VIII), 3.5G UMTS (HSDPA 7.2M / HSUPA 5.76 M)
GPS: Integrated A-GPS
AUDIO: Speaker/microphone (mono), 3.5mm headset connector (stereo)
EXTENSION: User accessible microSD I/O

POWER

RECHARGEABLE BATTERY: LI-ON 3.7V 3060mAh
BACKUP BATTERY: 18mAh for main battery hotswap
CHARGING METHOD: power supply (included), car adapter, and cradle (both sold separately)

CAMERA

COLOR CAMERA: 3.2 mp, auto-focus, LED flash

BARCODE LASER SCANNER OPTICS (H-22A MODEL)

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: 0.127 mm / 5 mil
MINIMUM PCS VALUE: 0.45
DEPTH OF FIELD: At PCS 0.9 Code 39
39 mil (1.0 mm): 2.56 - 25.39 in (65 - 645 mm)
20 mil (0.5 mm): 1.77 - 16.34 in (45 - 415 mm)
10 mil (0.25 mm): 1.77 - 10.04 in (45 - 255 mm)
6 mil (0.15 mm): 1.77 - 5.71 in (45 - 145 mm)
5 mil (0.127 mm): 2.17 - 4.53 in (55 - 115 mm)

2D IMAGER OPTICS (H-22B MODEL)

LIGHT SOURCE: Aiming laser diode, illumination LEDs
SCAN METHOD: CMOS area sensor, 900 x 512 pixels, gray scale
SCAN RATE: Up to 80 fps, after auto-focus activation (100 ms after triggering)
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 AT PCS 0.9: 0.127 mm / 5 mil
MINIMUM PCS VALUE: 0.45
FIELD OF VIEW: Horizontal 40°, Vertical 23°
DEPTH OF FIELD (AT PCS 0.9):
QR Code: 5 mil (0.127 mm) 1.77 - 2.56 in (45 - 65 mm)
QR Code: 15 mil (0.381 mm) 1.77 - 9.84 in (45 - 250 mm)
Code 39: 5 mil (0.127 mm) 1.77 - 4.33 in (45 - 110 mm)
Code 39: 10 mil (0.254 mm) 1.97 - 10.24 in (50 - 260 mm)
Code 39: 39 mil (1.0 mm) 4.72 - 39.37 in (120 - 1000 mm)
FREQUENCY: 13.5G MHz
SUPPORTED STANDARDS: ISO 14443A/B, Mifare Classic 1k, Mifare Classic 4k, Mifare Ultralight, Mifare DESFire 2k, 4k and 8k, ISO 15693, I-Code, Felica
READING DISTANCE: up to 2.75 in (70 mm) (depending on card/tag type)

SUPPORTED SYMBOLOGIES

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-ISMN-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/ECO-140), Maxi Code (mode 2-5), Micro QR Code, MicroPDF417, PDF417, QR code
POSTAL CODE: Chinese Post, Korean Postal Authority code

DURABILITY

TEMPERATURE:
Operation: 14 - 122 °F (-10 - 50 °C)
Storage: -22 - 176 °F (-30 - 80 °C);
Main battery storage: -4 to 140 °F (-20 to 60 °C)
HUMIDITY:
Operation: up to 95% (non-condensing)
Storage: up to 95% (non-condensing)
DROP TEST: 5 foot drop onto concrete surface
INGRESS PROTECTION: IP65

PHYSICAL

DIMENSIONS (WXHXD): 5.94 x 2.95 x 0.98 in
WEIGHT BODY: Ca. 340 g / 12 oz (incl. battery)
CASE: Black

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, PTCRB, GCF, RoHS, CTIA/IEEE1725, IEC 60825-1 Class 2

ENCLOSED ITEMS

USB AC adapter, Lithium-ion 3060mAh battery, USB cable, hand strap, ear microphone headset, stylus + tether

SOLD SEPARATELY

CRD-22 CRADLE: USB OTG, Active Sync, charging
PISTOL GRIP

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