

H22



> HIGHLIGHTS



Windows Mobile 6.5.3

3.7" touch screen



Bluetooth V2.1 + EDR



WiFi, IEEE 802.11 b/g/n

3G, 3.5G

Assisted GPS

3.2 megapixel color camera with
auto-focus and flash light



USB, OTG

IP 65



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> BASIC PRODUCT SPECIFICATIONS

OPERATION

CPU: Marvell PXA320 806MHz **O/S:** Microsoft® Windows Mobile® 6.5.3

MEMORY

NAND FLASH: 512 MB **SDRAM:** 256 MB **EXPANSION:** User accessible microSD + HC

DISPLAY

TYPE: Blaview TFT LCD, 262k color display with touch screen **SIZE:** 3.7", 480 x 640 pixels **MODE:** Portrait / Landscape

OPERATING INDICATORS

VISUAL: 1 LEDs (red/orange/green) **NON-VISUAL:** Vibrate, Buzzer

OPERATING KEYS

ENTRY OPTIONS: (alpha)Numeric keyboard or QWERTY keyboard, navigation key (scroll + select), function keys, 10 enabled by color key, control keys, 1 power key, Windows Mobile key, OK 2 phone keys, reset key, volume key, 4 scan keys, reconfigurable

COMMUNICATION

USB: OTG, client and host **IRDA:** Ver. 1.3, 2400 bps - 115.2 kbps (SIR), 576 kbps - 1.152 Mbps (MIR) **BLUETOOTH:** Ver. 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 I,II,V,VI,VIII), 3.5G UMTS (HSDPA 7.2M / HSUPA 5.76 M) **GPS:** Integrated AGPS **AUDIO:** Speaker/microphone (mono), 3.5mm headset connector (stereo) **EXTENSION:** User accessible microSD I/O

POWER

RECHARGEABLE BATTERY: Lithium-Ion 3.7V 3060mAh **BACKUP BATTERY:** 18mAh for main battery hotswap **CHARGING METHOD:** Enclosed power supply, separate car charging adapter, separate cradle

CAMERA

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

BARCODE SCANNER OPTICS

LIGHT SOURCE: 650 nm visible laser diode

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

2D IMAGER OPTICS

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° Min. resolution at PCS 0.9: 0.127 mm / 5 mil **MIN. PCS VALUE:** 0.45 **FIELD OF VIEW:** Horizontal 40°, Vertical 23° **DEPTH OF FIELD:** at Code 39, 45 - 1000 mm / 1.77 - 39.37 in (0.127 mm / 5 mil), 45 - 110 mm / 1.77 - 4.33 in (0.127 mm / 5 mil), 50 - 260 mm / 1.97 - 10.24 in (0.254 mm / 10 mil), 120 - 1000 mm / 4.72 - 39.37 in (1.0 mm / 39 mil) **DEPTH OF FIELD:** at QR Code, 45 - 65 mm / 1.77 - 2.56 in (0.127 mm / 5 mil), 45 - 250 mm / 1.77 - 9.84 in (0.381mm / 15 mil)

RFID OPTICS (OPTIONAL)

FREQUENCY: 13.56 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 70 mm (depending on card/tag type)

SUPPORTED SYBLOGIES

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 **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** 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

DURABILITY

TEMPERATURE IN OPERATION: -10 to 50°C / 14 to 122°F **TEMPERATURE IN STORAGE:** -30 to 80°C / -22 to 176°F (main battery storage: -20 to 60°C / -4 to 140) **HUMIDITY IN OPERATION:** up to 95% (non-condensing) **HUMIDITY IN STORAGE:** up to 95% (non-condensing) **DROP TEST:** 1.5 m / 5 ft drop onto concrete surface **PROTECTION RATE:** IP 65

PHYSICAL

DIMENSIONS (W X H X D): 151 x 75 x 25 mm / 5.94 x 2.95 x 0.98 in **WEIGHT BODY:** Ca. 340 g / 12 oz (incl. battery) **CASE:** Black

REGULATORY & SAFETY

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

ENCLOSED ITEMS

USB AC Adapter, Standard battery Lithium-Ion 3060 mAh, USB cable, Hand strap, Ear microphone, Stylus + Cord

SOLD SEPARATELY

CRD22 CRADLE: USB OTG, Active Sync, charging **CRD22E4 CRADLE:** Multi-cradle, 4 slots, Ethernet communication, charging Pistol grip, Car holder kit