OPTICON

Windows Mobile

Windows Mobile GPRS/EDGE/3G/3.5G

Single cradle

Wi Fi

Bluetooth

AGPS

MicroSD I/O

# H21

## Barcode laser scanner & Color camera

## Qwerty keypad

+ Related products

**H21**
- Windows Mobile
- 2D CMOS imager & Color camera
- Bluetooth, W-LAN (WiFi), GPRS/EDGE/3G/3.5G, microSD I/O
- AGPS, IP 64

**H19A**
- Windows Mobile
- Barcode laser scanner Bluetooth, W-LAN (WiFi), GSM/GPRS/EDGE, miniSD I/O
- GPS, IP 54

**PHL8214**
- Windows CE
- Barcode laser scanner
- Bluetooth, W-LAN (WiFi), GPRS/EDGE, serial connector
- IP 65, Full keypad

# + Basic Product Specifications



### Operation
- CPU: Qualcomm MSM7225 528 Mhz
- O/S: Microsoft® Windows Mobile® 6.5

### Memory
- NAND Flash: 256 MB
- RAM: 256 MB
- Expansion: User accessible microSD + HC

### Display
- Type: Graphic Transflective TFT LCD with touch panel, 16-bit color with adjustable backlight
- Size: 2.8", 480 x 640 pixels
- Mode: Portrait / Landscape

### Operating indicators
- Visual: 2 LEDs (red/orange/green/blue)
- Non-visual: Vibrate, Buzzer

### Operating keys
- Entry options:
  QWERTY keyboard,
  navigation key (scroll + select),
  function keys,
  control keys,
  1 power key,
  2 phone keys,
  1 camera key
  reset key,
  volume key,
  2 scan keys

### 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
- Telecom: GPRS/EDGE (quad-band 850/900/1800/1900), 3G UMTS (WCDMA band 1,II,V,VI), 3.5G UMTS (HSDPA 7.2M / HSUPA 5.76 M)
- GPS: Integrated AGPS
- Audio: Speaker/microphone (mono), headset connector (stereo)
- Extension: User accessible microSD I/O

### Power
- Rechargeable battery: Lithium-Ion 3.7V 3060mAh
- Backup battery: 6mAh
- 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)

### Supported Symbologies
- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 39, Code 93, 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: Composite Codes, MicroPDF417, PDF417

### Durability
- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -40 to 60 °C / -40 to 140 °F
- Humidity in operation: up to 90% (non-condensing)
- Humidity in storage: up to 90% (non-condensing)
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 64

### Physical
- Dimensions (w x h x d):
  67 x 135 x 22 mm / 2.64 x 5.31 x 0.87 in
- Weight body: Ca. 235 g / 8.3 oz (incl. battery)
- Case: Black

### Regulatory & Safety
- Product compliance: CE, FCC, VCCI, PTCRB, GCF, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

### Enclosed items
- USB AC Adapter
- Standard battery Lithium-Ion 3060 mAh
- USB cable
- Leather case
- Hand strap
- Ear microphone
- Screen protector
- Getting started disc
- Stylus + Cord

### Sold separately
- CRD21: USB OTG, Active Sync, charging
- Car holder kit

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- **The Netherlands:** Hoofddorp
- **France:** Issy Les Moulineaux
- **Germany:** Dietzenbach
- **Italy:** Castel Maggiore (BO)
- **Spain:** Valencia
- **Sweden:** Järfälla
- **United Kingdom:** Luton, Bedfordshire
- **U.S.A.:** Renton, WA
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- **P.R.China:** Shanghai
- **Australia:** Kariong
- **Brazil:** São Paulo

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