

# OPTICON

# Windows Mobile

 Windows Mobile **GSM/GPRS/EDGE**

Single cradle  
Multi-cradle

 **WiFi™**

 **Bluetooth™**

**GPS**

**MiniSD I/O**

## H19B

2D CMOS imager



### + Related products

#### H19A

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



#### PHL7254

- Windows CE
- 2D CMOS imager
- Bluetooth, W-LAN (WiFi), GSM/GPRS, serial connector
- IP 54, Full keypad



#### PHL8152

- Windows CE
- 2D CMOS imager
- Bluetooth, W-LAN (WiFi), serial connector
- IP 65



## Operation

- CPU: Samsung S3C2440A 400 Mhz
- O/S: Microsoft® Windows Mobile® 6 Professional
- Software: Excel Mobile, Powerpoint Mobile, Word Mobile, Internet Explorer, ActiveSync, Internet sharing, Pocket MSN, Phone application, Opticon scanner application, Accessories
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

## Memory

- FlashROM: 512 MB
- RAM: 64 MB
- Expansion: User accessible miniSD

## Display

- Type: Graphic Transflective TFT LCD with touch panel, 16-bit color with adjustable backlight
- Size: 2.8", 240 x 320 pixels
- Mode: Portrait / Landscape

## Operating indicators

- Visual: 2 LEDs (red/orange/green/blue)
- Non-visual: Vibrate, Speaker (.wav)

## Operating keys

- Entry options: 24 keys total, 12 key (alpha)numeric keypad, 5-way navigation keys, function key, backspace key, 1 power key, 2 hot keys, 2 phone keys, reset key, volume key, voice record, 2 scan keys, virtual keyboard, handwriting recognition

## Communication

- USB: Mini USB, Ver. 1.1., client
- Bluetooth: Ver. 1.2, range up to 10 m
- W-LAN: WiFi, IEEE.802.11b/g
- Telecom: GSM/GPRS/EDGE, quad-band 850/900/1800/1900, GSM Class 12, EDGE Class 10
- GPS: NMEA 0183, SiRF Star III, 57.6 kbps
- Audio: Speaker/microphone (mono), headset connector (stereo)
- Extension: User accessible miniSD I/O

## Power

- Rechargeable battery: Lithium-Ion Polymer 4.2V 1580mAh
- High-capacity battery: Optional 4.2V 2600mAh
- Backup battery: Lithium rechargeable
- Operating time: Talk time 4 hours, Standby time 150 hours
- Data retention time: Backup Battery 5 minute RTC after main battery removal, 168 hours RTC in main battery low power
- Charging method: Enclosed power supply, separate USB cable, separate car charging adapter, separate cradle CRD19 series with spare battery bay
- Battery charging time: Ca. 4 or 8 hours when charging through power supply, ca. 6 or 12 hours when charging by USB cable connected to PC (resp. Standard or High-capacity battery)

## 2D Imager Optics

- Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs
- Scan method: CMOS area sensor
- Scan rate: Up to 30 fps
- Trigger mode: Manual, multiple read
- Image format: Windows Bitmap, JPEG, TIFF
- Gradulation: 256, 16, 2
- Image output mode: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -60 to 0°, 0 to +60°
- Reading tilt angle: 360°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. Resolution at PCS 0.9: 0.127 mm / 5 mil at PDF 417, 0.1mm / 3.9 mil at Code 39, 0.169 mm, 6.7 mil at Data Matrix, QR Code
- Min. PCS value: 0.45
- Field of view: Horizontal 47°, Vertical 37.5°
- Depth of field: At PCS 0.9 PDF417 50 - 215 mm / 1.97 - 8.46 in (0.339 mm / 13 mil), 95 - 135 mm / 3.74 - 5.31 in (0.127 mm / 5 mil)

## Supported Symbolologies

- 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-ISSN-ISMN, 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, Composite codes, Codablock F, Data Matrix, (ECC200/ECO-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

## 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 - 80% (non-condensing)
- Humidity in storage: 20 - 90% (non-condensing)
- Drop test: 1.2 m / 4 ft drop onto concrete surface
- Protection rate: IP 54

## Physical

- Dimensions (w x h x d): 62.3 x 140.8 x 25.5 mm / 2.45 x 5.54 x 1.00 in
- Weight body: Ca. 200g / 7.1 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

- Power supply 100-240V/0,25A, 50/60 Hz, 5V/1A
- Standard battery Lithium-Ion Polymer 4.2V 1580mAh
- USB cable (client cable)
- Leather case
- Belt clip
- Neck strap
- Hand strap
- Ear microphone
- Getting started disc
- Stylus

## Sold separately

- CRD19 Cradle: Serial communication, charging
- CRD19E4 Cradle: Multi-cradle, 4 slots, Ethernet communication, charging
- High-capacity battery Lithium-Ion Polymer 4.2V 2600mAh
- Car charging adapter
- Car holder kit

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Spain:** Valencia  
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- **United Kingdom:** Luton, Bedfordshire  
- **U.S.A.:** Renton, WA  
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