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## Description

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 **NOTIFICATION DISCONTINUED** | Alternatives can be found under the 'Related products' tab, or contact us for assistance.

The information below is for reference purposes only.

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 1D barcode  Windows Mobile  Bluetooth  Wifi  IrDA  USB  GPRS  EDGE  3G  3.5G  AGPS  IP64

Opticon H21 1D Alphanumeric keypad, a consumer-grade design, is a mobile terminal with Windows Mobile 6.5, a barcode reader, color camera and 3G communication. The Opticon H21 withstands drops up to 1.5 meter onto concrete and is sealed up to IP 64 standards.

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## Product Features

### Apart from Windows Mobile 6.5

The Opticon H21 is standard equipped with assisted GPS, 3G and 3.5G communication, Bluetooth and WiFi. The barcode reader provides the versatility to read all standard 1D barcode symbologies.

### New generation

This new generation Opticon H21 has an integrated 3.2 megapixel color camera with auto-focus and flash light. Use the 2.8" touch screen for signature writing and capture all information on the Opticon H21. The user accessible slot enables the user to expand the memory by microSD and HC.

### In situations where connectivity

Communication and ease-of-use are important, this smart phone is the ideal tool. The Opticon H21 weighs only 235 gr. and is ergonomically shaped. The integrated 3060 mAh battery provides long operation time.

### The Opticon H21 1D

Is available with a numeric or qwerty keypad.

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## Specifications

- Opticon H-21 1D Alphanumeric keypad Smartphone
- Article number: 12596 Opticon H-21 1D Alphanumeric keypad incl battery pack

### 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:
- 12 (alpha)numeric keys
- navigation key (scroll + select)
- function keys
- control keys
- 1 power key
- 2 hot keys
- 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 Symbolologies**

- Supported 1D barcode Symbolologies: 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
- Supported 2D barcode Symbolologies: 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

## Warranty

- 2 year Manufacturer warranty.

## Enclosed items

- Power supply 5,0V/1A incl EU plug **Article number : USBCHARGE\_NET**
- Standard battery Lithium-Ion 3060 mAh **Article number : 12560**
- USB cable **Article number : 12566**
- Leather case **Article number : 12568**
- Hand strap **Article number : 12564**
- Ear microphone **Article number : 12562**
- Getting started disc
- Stylus **Article number : 12708**
- Stylus cord **Article number : 12043**

## Accessories

sold separately.

- CRD21 Charging and Communication cradle **Article number : 12558**
- Car charging adapter **Article number : USBCHARGE\_CAR**
- Car holder kit **Article number : 12559**
- Screen Protector **Article number : 90025**

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## Features

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### Properties

Warranty: 2 years

Serie(s): H-21

Including: Power supply Battery Wrist strap USB cable Ear microphone Stylus + Cord Leather case Screen protector Getting started disc

### Physical

Connection(s): USB mini

### Technical details

Platform Version: Windows Mobile 6.5

Platform: Windows

IP rating: IP64

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Scan engine: Laser (1D)

Wireless Communication: AGPS IrDA 3.5G GPRS 3G Bluetooth WiFi EDGE

Barcodes: 1D