H22 Beyond Smart, It's Brilliant

› IDEAL TOOL FOR:

Logistics & Courier Services
Postal
Field Service & Field Sales
Facility & Security

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OPTICON

The H22 is designed with the technology and ruggedness to meet the demands of businesses that deploy field workers. The interactive mobile computer with excellent reading and touch screen performance uses the latest Windows Mobile® 6.5.3 platform providing the latest technology for mobile applications.

As well as providing a stable platform for interacting with the operator, the mobile computer collects signatures and is able to take a photographic record of an observed event or issue – vital operations for a successful field-based solution.

Scanning

> LASER ENGINE

The integrated Opticon engine captures a wide range of linear barcode symbologies. The laser scan engine reads barcodes at a speed of 100 scans per second.

> 2D IMAGER

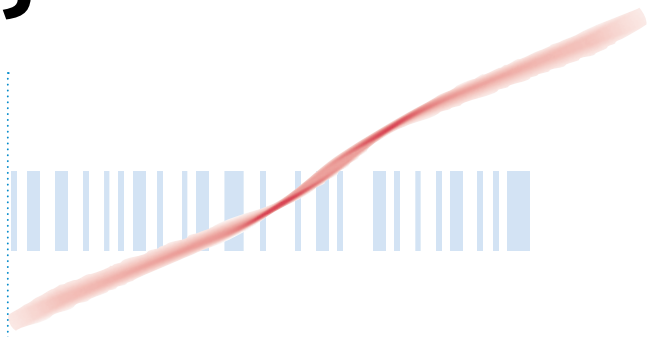
For more scanning options Opticon provides the model with a 2D imager. Besides linear barcodes, this engine also reads 2D and stacked codes, both from traditional media (labels etc.) as well as from the screens of other mobile devices.

> RFID

For rapid identification of RFID tagged items, use the H22 with RFID reader. This model is equipped with a SAM slot. Designed to provide the safe storage of cryptographic keys and functions for H22 to access information securely in contactless applications, a SAM also enables secure communication between H22 and the host system to take place.

> 3.2 MEGAPIXEL CAMERA

The 3.2 megapixel color camera with auto-focus and flash light supports visual information to any issue.



> 3.7" BLANVIEW TOUCH SCREEN

The sharp 3.7" color display with touch screen is among the largest screens available for mobile terminals. It provides users with an extremely user friendly interface for any field worker application.

> IP 65 COMPLIANT HOUSING

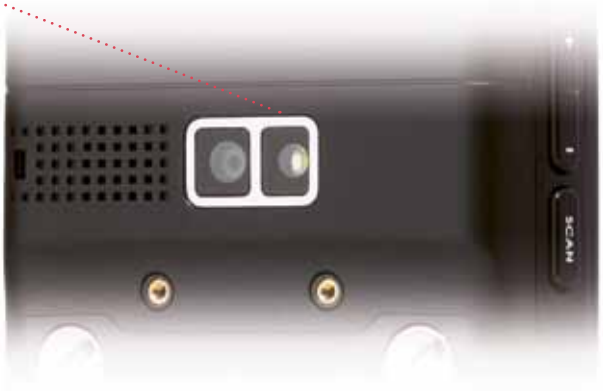
With its rugged housing, the H22 can withstand multiple drops onto concrete from 1.5 meters as well as adverse environmental conditions, with its IP 65 compliant design.

> 2 KEYPAD VERSIONS

Maximize efficient data entry and choose the keypad that meets the requirements of your specific business applications. The H22 is available with an (alpha)numeric layout or a complete QWERTY keypad.

H22 Highlights

- Windows Mobile 6.5.3
- 3.2 megapixel color camera with auto-focus and flash light
- 3.7" Blanview touch screen
- Hot swappable battery
- Assisted GPS
- 3G, 3.5G
- IP 65



Communication

Vital features for a successful field-based solution

> SIGNATURE CAPTURING
Use the color camera to capture signatures from paper or use the large 3.7" touch screen for signature writing on the screen and have it captured by your business application.

> 3G AND 3.5G
The H22 provides cellular communication for phone calls and data package services. The third generation distribution channels provide more capacity and higher data rates.

> AGPS
GPS can help mobile workers to find their destination and can also provide a business with vital information regarding the whereabouts of its field workers.

> USB OTG
Get connected to other USB products without the interference of a host. Several hardware extensions can be plugged onto the H22.

> BLUETOOTH 2.1
A Bluetooth® radio allows you to wirelessly connect and communicate with any Bluetooth enabled peripheral.

> WIRELESS LAN
Log on to any available WiFi® network supporting internet browsing and connect to your enterprise ERP system.

> VOICE OVER IP
The WLAN integration and microphone support offer a platform to install VoIP. The external software tools for speech recognition can make use of the integrated communication technology.

> IRDA 1.3
This indoor short-range communication wave connects to other IrDA equipped computer peripherals.

> CHARGING AND COMMUNICATION
The H22 can be charged by the dedicated cradle with charging and communication features.

Markets

> POSTAL

APPLICATIONS:

Get real-time routing information
Capture signatures
Get a proof of delivery
Increase route efficiency

> LOGISTICS & COURIER SERVICES

APPLICATIONS:

Stay connected with business operations
Get real-time routing information
Capture signatures
Collaborate with colleagues
Get a proof of delivery
Manage inventory

> FIELD SERVICE & FIELD SALES

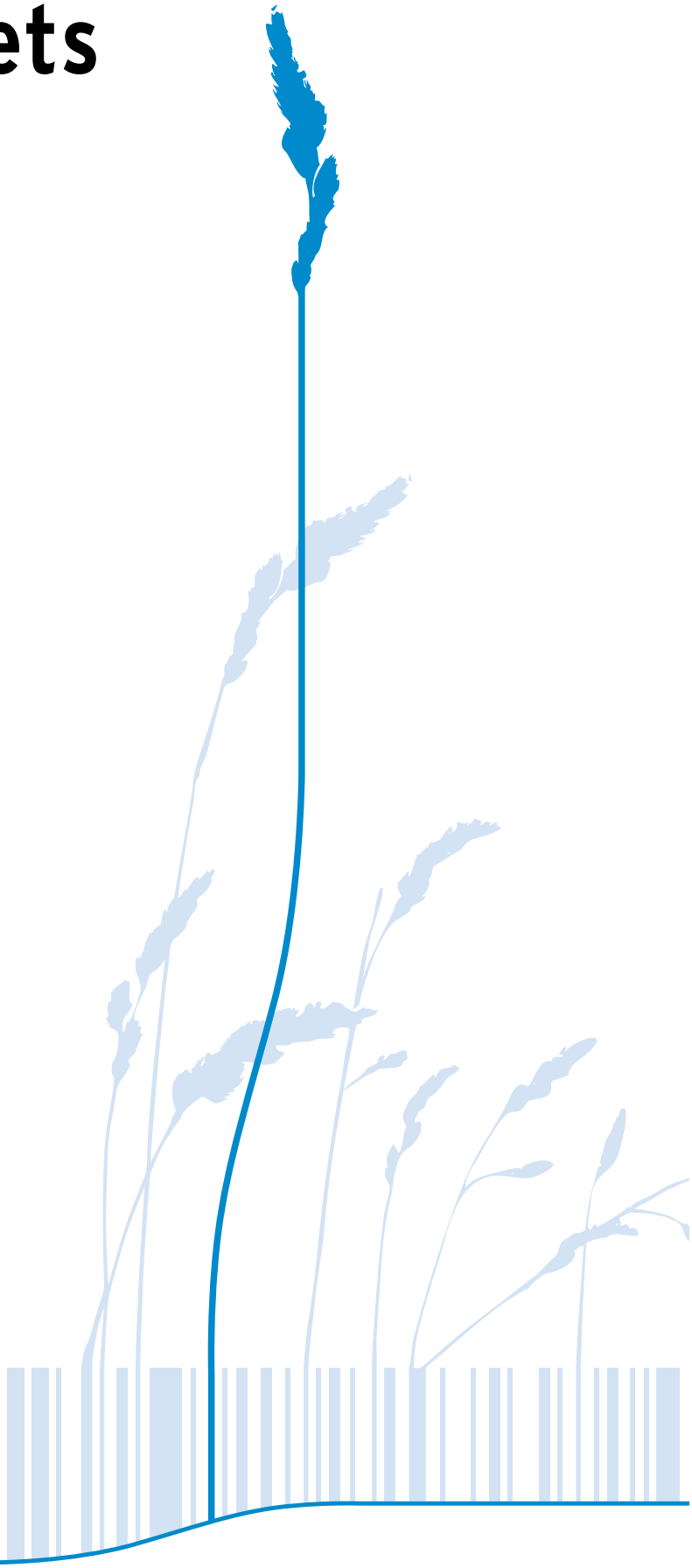
APPLICATIONS:

Manage orders
Update CRM information on the spot
Capture signatures
Collaborate with colleagues
Reference manuals
Stay connected with business operations

> FACILITY & SECURITY

APPLICATIONS:

Conduct inventory lists
Record check-out items
Make visit reports
Stay connected with business operations
Report theft & loss



H22

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

OPERATING INDICATORS

VISUAL: 1 LED (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, enclosed USB cable, separate cradle, separate car charging adapter

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 (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 SYMBOLOGIES

LASER ENGINE: 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, Chinese Post, Korean Postal Authority code, Composite Codes, MicroPDF417, PDF417, QR code

2D IMAGER: Laser engine symbologies + Aztec Code, Aztec Runes, Codablock F, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2~5), Micro QR Code, 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

SOLD SEPARATELY

CRD22: Single cradle, USB OTG, Active Sync, charging CRD22-E4: Multi-cradle, 4 slots, Ethernet communication, charging PISTOL GRIP, CAR HOLDER KIT

H22-002

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