≡ OPTICON

H-33- Rugged Smartphone, 2D imager, Android 9, WLAN, 4G, GPS

Built with a durable and intelligent design, the H-31/H-33 with 2D CMOS imager is ideal for today's mobile workforce. Implementing a variety of applications that make it an optimal tool to be used in areas such as: field sales, inventory management, and logistics.

H-31 & H-33 are the Opticon's most ergonomic and dependable mobile computers that come with an upgradable Android 9 operating system. Opticon's H-31 and H-33 incorporate a brilliant 5" full-color FHD touch screen, and a 16 MP rear camera providing a user-friendly interface with the functionality of a computer and a scanner. With AER, your business needs to integrate into a seamless solution through selecting, implementing, and managing all of your Android devices.

Highlights of the Opticon H-31 / H-33 mobile computers

- Android 9 & Android Enterprise Recommended certification (AER)
- 4G/Wi-Fi supported rugged design
- 5 inch full color FHD touch screen
- 64 GB memory
- 16 MP camera with auto focus
- High performance Opticon scanning
- Always connected through mobile data, Wi-Fi or Bluetooth
- High capacity battery of 4,000mAh
- Protection rate at IP 67
- Optional bumper for drop down protection

Can Opticon H-31 swim?
YOUTUBE='c1M3PDwbDhU'

Opticon H-31 / H-33 production & quality check:
YOUTUBE='G9Im1I6jKlM'

Opticon H-31 / H-33 for daily use:
YOUTUBE='1JF2yMwVjzg'

Technical Description

Functionality & Operation

Wireless communication	Bluetooth®, GPS, LTE, NFC, WiFi
WWAN Features	WCDMA, GSM, LTE
GPS navigation	GPS, GLONASS, BeiDou , QZSS
Expansion slot	Micro SD Card (SDHC), SIM card
1D Barcode Symbologies	All standard one-dimension barcodes 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-IS-MN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
2D Code Symbologies	all standard 2D-Codes Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data matrix (ECC200), Passport MRZ (OCR-B), maxi Code (mode 2~5), MicroPDF417, MicroQR Code, PDF417, QR Code
RFID transponder protocols	NFC: ISO14443 (type A, B, Mifare, Felica), ISO15693
WLAN Features	Wi-Fi, IEEE 802.11 a/b/g/n/ac
WPAN Features	Bluetooth: 4.2 LE
CPU Type	Qualcomm SDM450 A53 1.8Ghz Octa-core
Operating system	Android 9
Memory	LPDDR3 4GB RAM/ 64GB EMMC
Display type	5" FHD, color screen, Gorilla Glass, 520 cd/m2
Touch-screen panel	capacitive multi-touch
Indicators	3 LEDs, Vibrate, dual speakers (max 90dB)
Operation interface	1 power key, 2 volume keys, 2 (programmable) scan keys, 2 function keys, 3 OS keys
Communication interface	USB

Optical

Bar code scanner	2D Imager , CMOS area sensor, 640 x 480 pixels, greyscal 10-bits
Light source	Aiming green LED, warm white illumination LED
Depth of scan field	30-466 mm
Minimal PCS value	0.2
Sensors	accelerometer, light sensor, gyroscope, e-compass, proximity sensor
Camera	16 MPix, with LED flash, with Autofocus

Electrical

Main battery pack	Rechargeable Li-Ion battery 4000 mAh, 3,7V

Mechanical

Weight	319g
Dimensions	Width: 79mm, Height: 20.8mm Length: 158mm

Environment

Operating temperature	-10 to 50°C
Operating humidity (non-condensing)	30 to 80%
Storage humidity (non-condensing)	5 to 90%
Shock resistance	multiply drops from 1,5 m onto concrete surface
Ingress protection	IP67
Storage temperature	-30 to 60°C

Others

Certifications	CE, CB, FCC, VCCI, TELEC, RoHS, WEEE, REACH