H-27 Android Enterprise Terminal

> **IDEAL TOOL FOR:**
Field Sales & Service
Postal
Retail
Healthcare

OPTICON

With the functionality of a PDA and the appearance of a smartphone, the H-27 is particularly suitable for mobile workers who need the combination of auto-ID and business-critical information to carry out their work in a highly efficient way. The device comes with an integrated 1D barcode reader or 2D imager and supports a variety of linear barcode symbologies, 2D and stacked codes. Due to the ergonomic design the H-27 is slimmer and lighter than an industrial device, and also stronger and more robust than a consumer phone. Furthermore, the 1.5 meter shock drop test, the IP65 rating, the ability to operate at temperatures ranging from -10°C to 50°C and its 4.3″ display with Gorilla glass and anti-reflective coating gives this Android 4.2.2 based device the durability and ruggedness you may expect.

The H-27 delivers powerful performance thanks to the 1.5 GHz processor, 8GB flash memory and its range of communication possibilities. The standard high capacity battery (2860 mAh) is good for full-shift operation and the various communication options such as Bluetooth 4.0, WiFi 802.11 a/b/g/n, 2.5G, 3.5G, NFC, GPS and GLONASS enable the mobile worker to provide better and faster service on-site.

Scanning

> LASER ENGINE

The integrated 1D scanner captures a wide range of linear barcode symbologies at the speed of 100 scans per second. Scanning can be done with just a press of a button.

> 2D IMAGER

Besides scanning linear barcodes, the 2D imager can be used for other scanning options. It's possible to scan 2D and stacked codes at the scan rate of 60 fps and save them in a variety of formats.

> 4.3″ TOUCH SCREEN

The 4.3″ TFT LCD touch screen is protected with Gorilla glass v2, which makes it harder for cracks and scratches to appear. Its anti-reflective coating and the 800 x 480 pixels screen size improves readability in every environment and lighting conditions.

> IP65 PROTECTION AND DURABILITY

The H-27 can withstand multiple drops from 1.5 m (5ft), is dust tight and can resist water jets which results in an IP65 rating. It's operational in temperatures ranging from -10 to 50°C / 14 to 122°F.

H-27 Highlights

- › Android 4.2.2
- › Qualcomm Dual Core - 1.5GHz
- › 8GB flash memory
- › 1D barcode reader or 2D imager
- › 4.3" TFT LCD touch screen with Gorilla glass V2 & anti-reflective coating
- › 5.0 MP camera with Auto Focus and Flash LED
- › Bluetooth 4.0
- › WiFi, 802.11 a/b/g/n
- › HSPA+ with Data and Voice
- › NFC
- › Hotswap
- › IP65
- › 1.5 m drop proof

Communication

> WIRELESS LAN

Log on to any available WiFi network and integrate the H-27 in your corporate network with ease.

> BLUETOOTH 4.0

Get wireless connected to other devices via Bluetooth 4.0 at improved power efficiency. The H-27 is able to connect to the devices of the future such as active 3D glasses.

> HSPA+

The H-27 provides cellular communication for phone calls and data package services at 2.5G and 3.5G capability.

> CAMERA

The rear facing camera with 5 megapixel, auto focus and flash light supports visual information for any issue you may encounter and can help identify and report vulnerabilities.

> GPS

The integrated GPS and GLONASS guide mobile workers to their destinations and can optimize routes for field service.

> USB OTG

Attach various USB-devices onto the H-27 to further meet your demands.

> CHARGING AND COMMUNICATION

The H-27 can be charged with the enclosed 100-264V, 3A, 50-60 Hz, 5V power supply. The CRD-27, a single cradle, provides charging of both the docked terminal and a spare battery. The cradle is equipped with charging and communication features for the H-27, including USB OTG.

The cradle provides both charging and communication features

OPTICON

Markets

> FIELD SALES & SERVICE
Electronic document management
Service reporting
Job proofing
Order taking
Inventory management
Signature capturing
Trace vulnerability
Route tracking (GPS)

> POSTAL
Parcel identification
On-line delivery confirmation
Drop-off time registration
Shipment condition logging (report damaged shipments)
Stock location

> RETAIL
In-store management
Stock movement
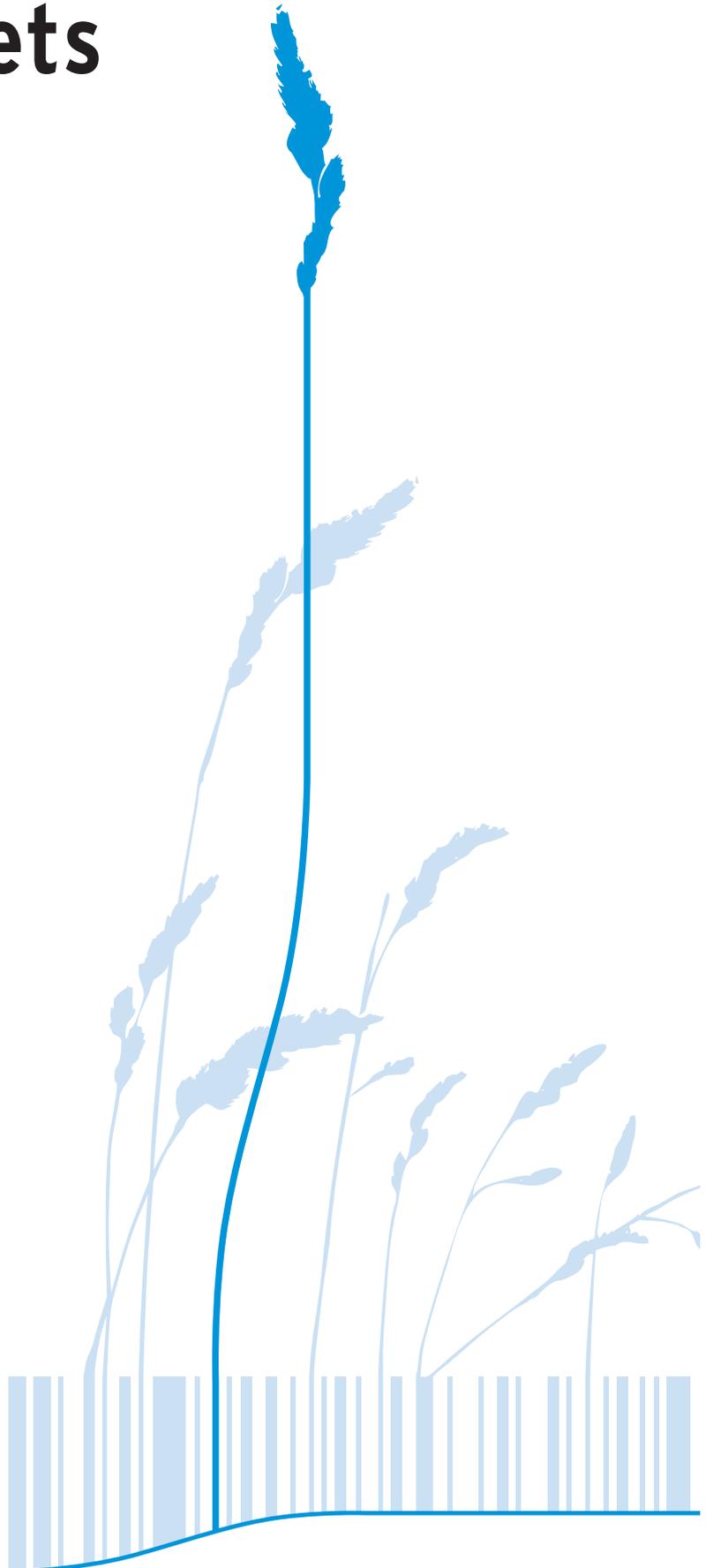Price checking
Instant order entry
Asset management

> HEALTHCARE
Intramural care efficiency
Prescription tracking
Communicating reports
Asset management

H-27

› BASIC PRODUCT SPECIFICATIONS

OPERATION

CPU: Qualcomm MSM8960 Dual core Krait 1.5GHz **O/S:** Android 4.2.2

MEMORY

EMMC: 8G **SDRAM:** DDR2 1GB **EXPANSION:** microSD up to 32GB

DISPLAY

TYPE: TFT LCD, capacitive touch panel, color screen **SIZE:** 4.3″, 800 x 480 pixels

PROTECTION: Gorilla glass v2 **COATING:** Anti-reflective

OPERATING INDICATORS

VISUAL: 2 LEDs (red/green) **NON-VISUAL:** Vibrate

OPERATING KEYS

1 power key, 2 volume keys, 2 scan keys, 4 Android navigation keys

COMMUNICATION

BLUETOOTH: 4.0 **W-LAN:** WiFi, IEEE.802.11 a/b/g/n **WWAN:** 2G (850/900/1800/1900), 3G (850/900/1700/1900/2100) **WWAN DATA:** GPRS, EDGE, HSPA+ **ETHERNET:** via USB-to-Ethernet adapter (supported USB-to-Ethernet chipsets AX8817x, AX88178, AX88178A, AX88772, RTL8150) **NFC:** NFC-A (ISO14443-3A), NFC-B (ISO14443-3B), NFC-F (JIS 6319-4), isoDep (ISO 14443-4), NFC Forum Tag Types 1, 2, 3, 4, iS018092, NFC-V (iSO15693), MiFARe Classic, MiFARe Ultralight, nDeF on MiFARe Classic **GPS:** integrated GPS and GLONASS **AUDIO:** Speaker/receiver/microphone/3.5 mm headset (CTIA)/Bluetooth (HSP, HFP, A2DP) **USB:** micro USB OTG, System connector with USB OTG and charging

SENSORS

Accelerometer, Magnetometer, Gyroscope, Photometer, Proximity

POWER

MAIN BATTERY: Lithium-Ion 3.7V 2860mAh **BACKUP BATTERY:** Lithium Polymer 3.7V, 80mA for main battery hotswap **OPERATING TIME:** 8 hours (LCD on, 3G on), standby time 325 hours **BATTERY CHARGING TIME:** 2-2.5 hours **CHARGING TECHNOLOGY:** Qualcomm Quickcharge 1.0

CAMERA

REAR FACING CAMERA: 5 MP, auto-focus, flash LED

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 (EAN8), R>20 (EAN13) **MIN. PCS VALUE:** 0.45 **DEPTH OF FIELD:** At PCS 0.9, Code 39, 70 - 650 mm / 2.76 - 25.59 in (1.00 mm / 39 mil), 50 - 420 mm / 1.97 - 16.54 in (0.5 mm / 20 mil), 50 - 260 mm / 1.97 - 10.24 in (0.25 mm / 10 mil), 50 - 150 mm / 1.97 - 5.91 in (0.15 mm / 6 mil), 60 - 120 mm / 2.36 - 4.72 in (0.127 / 5 mil)

SUPPORTED SYMBOLOGIES BARCODE SCANNER

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, ISBN, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, Telepen **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** Composite Codes, MicroPDF417, PDF417

2D IMAGER OPTICS

LIGHT SOURCE: Aiming green LED, illumination LEDs **SCAN METHOD:** CMOS area sensor, 752 x 480 pixels, gray scale **SCAN RATE:** Up to 60 fps **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:** -50 to 0˚, 0 to +50˚ **READING TILT ANGLE:** 360˚ **CURVATURE:** R>16 mm (10-digit Codabar), R>20 mm (12-digit UPC) **MIN. RESOLUTION AT PCS 0.9:** 0.169 mm / 7 mil at PDF417, 0.212 mm / 8 mil at QR Code and DataMatrix **MIN. PCS VALUE:** 0.3 **FIELD OF VIEW:** Horizontal 40.6˚, Vertical 26.4˚ **DEPTH OF FIELD:** At Code 39, 85 - 125 mm / 3.35 - 4.92 in (0.127 / 5 mil), 65 - 205 mm / 2.56 - 8.07 in (0.254 mm / 10 mil), 60 - 295 mm / 2.36 - 11.61 in (0.508 mm / 20 mil) **DEPTH OF FIELD:** At QR Code, 90 - 115 mm / 3.54 - 4.53 in (0.212 mm / 8.4 mil), 55 - 195 mm / 2.17 - 7.68 in (0.381 mm / 15 mil)

SUPPORTED SYMBOLOGIES 2D IMAGER

BARCODE (1D): UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Han Xin Code (Chinese Sensible Code)

DURABILITY

TEMPERATURE IN OPERATION: -10 to 50 ˚C / 14 to 122 ˚F **TEMPERATURE IN STORAGE:** -20 to 70 ˚C / -4 to 158 ˚F (without battery) **HUMIDITY IN OPERATION:** 5 - 95% (non-condensing) **HUMIDITY IN STORAGE:** 5 - 95% (non-condensing) **DROP TEST:** 1.5 m / 5 ft drop onto concrete surface **PROTECTION RATE:** IP65

PHYSICAL

DIMENSIONS (W X H X D): 77 x 147 x 19 mm / 3.03 x 5.79 x 0.75 in **WEIGHT BODY:** Ca. 244 g / 8.5 oz (incl. battery) **CASE:** Black

ENCLOSED ITEMS

BATTERY, POWER ADAPTER, EAR PHONE, USB to DC cable, USB Cable, QUICK START GUIDE

SOLD SEPARATELY

CRD-27 (excl. power adapter & power cable), **POWER CORD**