

# H-28

## 2D CMOS Imager

The H-28 is a perfect balance of a smartphone and a terminal. This mobile computer is designed for complex tasks.



## A product designed for the most complex tasks

The H-28 comes in two versions: a Wi-Fi/Bluetooth version and a 4G Europe cellular version. Both come with fast and accurate performance when scanning. This is due to the powerful processor that is hidden under the high-tech 5" display. Even the most complex tasks are an easy job for this mobile computer.

## Highlights

- Android 6.0.1
- 5" FHD touch screen
- Bluetooth 4.1 LE & NFC
- 4G LTE EU
- 16MP CMOS camera with autofocus
- Wi-Fi 802.11 r, fast roaming
- IP 67



# H-28

## Product Specifications

### Operation

**CPU:** Qualcomm Snapdragon 617 A53  
Octa-core  
**O/S:** Android 6.0.1

### Memory

**EMMC:** 16GB  
**RAM:** LPDDR3 2GB  
**Expansion:** MicroSD, Simcard(optional)

### Display

**Type:** FHD, capacitive touch panel, color screen, Gorilla Glass.  
**Size:** 5"

### Operating indicators

**Visual:** 3 LEDs  
**Non-visual:** Vibrate, buzzer

### Operating keys

**Entry options:** 1 power key, 2 volume keys, 2 (programmable) scan keys, 2 function keys, 3 OS keys

### Communication

**Bluetooth:** 4.1 LE  
**W-LAN:** Wi-Fi, IEEE, 802.11 a/b/g/n/ac/r  
**Telecom:** WCDMA, GSM, TDD LTE, FDD TLE  
**NFC:** ISO14443-4 (type A & B), ISO15693, Mifare, Felica (ISO/IEC18092)  
**GPS:** GPS/GLONASS

### Sensors

Accelerometer, Light sensor, gyroscope, E-compass, Proximity

### Power

**Main battery:** Lithium-Ion 3.7v 2960mAh (Standard), Lithium-Ion 3.7v 5920mAh (optional)  
**Backup battery:** Rechargeable RTC battery, battery swap  
**Operating time (WWAN on, LCD on):** Ca. 9 hours (standard), Ca. 18 hours (extended)  
**Charging technology:** Qualcomm Quickcharge 2.0(USB only)

### Camera

**Rear facing camera:** 16 MP, auto-focus, LED flash  
**Front facing camera:** 5 MP

### 2D Imager optics

**Light source:** Aiming green LED, warm white illumination LED  
**Scan method:** CMOS area sensor, 640 x 480 pixels, black and white  
**Scan rate:** Up to 100 fps  
**Reading pitch angle:** -65 to 0°, 0 to +65°  
**Reading skew angle:** -65 to 0°, 0 to +65°  
**Reading tilt angle:** 360°  
**Curvature:** R>15 mm (EAN8), R>20 mm (EAN13)  
**Min. resolution at pcs 0.9:** 0.1 mm / 4 mil  
**Min. pcs value:** 0.9  
**Field of view:** Horizontal 38°, Vertical 28.9°  
**Depth of field at code 39:** : 52 - 126 mm / 2.05 - 4.96 in (0.127 mm / 5 mil), 46 - 246 mm / 1.81 - 9.68 in (0.254 mm / 10 mil), 60 - 466 mm / 2.36 - 18.35 in (0.508 mm / 20 mil)  
**Depth of field at QR code:** 64 - 106 mm / 2.52 - 4.17 in (0.169mm / 6.7 mil), 30 - 234 mm / 1.18 - 9.21 in (0.381mm / 15 mil)

### Supported symbologies

**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-IS-MN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey  
**Postal code:** Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET  
**2D code:** 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

### Durability

**Temperature in operation:** -20 to 50 °C / -4 to 122 °F  
**Temperature in storage:** -30 to 60 °C / -22 to 140 °F (without battery)  
**Humidity in operation:** 10% to 90% (non-condensing)  
**Humidity in storage:** 10% to 90% (non-condensing)  
**Drop test:** 1.5m / 5 ft drop onto concrete surface, MIL-STD 810G. 1.8m / 6 ft drop onto concrete surface, MIL-STD 810G with protective bumper  
**Protection rate:** IP 67

### Physical

**Dimensions (WxHxD):** 77 x 158 x 16.9 mm / 3.03 x 6.22 x 0.67 in  
**Weight body:** Ca. 308 g / 10.4 oz (inc. battery)  
**Color:** Black

### Regulatory & Safety

**Product compliance:** CE, CB, FCC, NCC, BSMI(TBD), IEC62133, UN38.3, UI2054, RoHS, WEEE, REACH

### Items

**Enclosed:** Standard battery, USB adapter (QC2.0), hand strap, USB cable  
**Sold Separately:** Extended battery, extended battery cover, single charge cradle, cradle power adapter, ethernet single cradle, protection bumper, stylus