

# H-29

## 2D CMOS Imager

The perfect tool for today's mobile workforce. Built to withstand harsh working environments, the H-29's capacitive 5-point touch screen and physical keypad enables fast and accurate working at many levels of mobile application.



## Highlights

- Rugged mobile computer with a fully integrated, high speed 2D imager scanner
- Physical alphanumeric keypad allows direct data entry with no interruption on the display, special anti-abrasion coating on key tops
- Android 6.01 for familiar and convenient navigation
- Qualcomm SD 617 A53 Octa-core platform: 1.5 GHz Quad-core and 1.2 GHz Quad-core
- 4.3" brilliant color touchscreen display with Gorilla® Glass, anti-reflective coating and signature capture
- Communications: Bluetooth 4.1 LE, WLAN, Wi-Fi, (802.11 a/b/g/n/ac/r), NFC, USB
- Rear facing 8 MP auto-focus digital camera, LED flash, low light mode
- Ergonomic design for single-handed operation with three scan triggers
- 25° downward scan angle makes frequent barcode scanning as comfortable as possible
- IP65 rating against dust and moisture, survives multiple 1.5 m drops to concrete
- Memory: 16GB EMMC, 2GB LPDDR3 RAM and MicroSD
- User/field-replaceable battery packs (no special tool needed), supports hot-swap mode, standard and extended battery packs available
- Supports Qualcomm Quick-Charge feature, which can charge the standard battery pack from 0 to ~75% within 45 minutes
- Two year warranty and OptiCare comprehensive warranty option

# H-29

## Product Specifications

### Operation

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

### Memory

**EMMC:** 16GB  
**RAM:** LPDDR3 2GB  
**Expansion:** MicroSD

### Display

**Type:** TFT LCD WVGA, capacitive touch panel, color screen, Gorilla Glass.  
**Size:** 4.3"  
**Brightness:** 530 cd/m2 (nits)

### Operating indicators

**Visual:** 2 LEDs (red/green), 1 LED (red/green/yellow)  
**Non-visual:** Vibrate, dual speakers (max 105dB)

### Operating keys

**Entry options:** 1 power key, 2 volume keys, 1 scan keys, 16 numeric keys, 4 navigation keys.

### Communication

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

### Sensors

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

### Power

**Main battery:** Lithium-Ion 3.7V 2300mAh (standard), Lithium-Ion 3.7V 3450mAh (optional)  
**Backup battery:** Rechargeable RTC battery, battery swap  
**Charging technology:** Qualcomm Quickcharge 2.0(USB only)

### Camera

**Rear facing camera:** 8 MP, auto-focus, LED flash, low light mode

### 2D Imager optics

**Light source:** Aiming green LED, warm white illumination LED  
**Scan method:** CMOS area sensor, 640 x 480 pixels, greyscale 10-bits  
**Scan rate:** Up to 100 fps  
**Reading pitch angle:** -65° to +65°  
**Reading skew angle:** -65° 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:** 0.2  
**Field of view:** Horizontal 38°, Vertical 28.9°

**Depth of field at code 39:**  
52 - 126 mm (0.127 mm) / 2.05 - 4.96 in (5 mil),  
46 - 246 mm (0.254 mm) / 1.81 - 9.68 in (10 mil),  
60 - 466 mm (0.508 mm) / 2.36 - 18.35 in (20 mil)  
**Depth of field at QR code:**  
64 - 106 mm (0.169mm) / 2.52 - 4.17 in (6.7 mil),  
30 - 234 mm (0.381mm) / 1.18 - 9.21 in (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 60 °C / -4 to 140 °F  
**Temperature in storage:** -30 to 70 °C / -22 to 158 °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  
**Protection rate:** IP65

### Physical

**Dimensions (WxHxD):** 71.8 x 175 x 19.5 mm / 2.83 x 6.89 x 0.77 in  
**Weight body:** Ca. 297 g / 10 oz  
**Color:** Black

### Regulatory & Safety

**Product compliance:** CE, NCC, BSMI, VCCI, TELEC, IEC62133, UN38.3, RoHS, BQB, Wi-Fi logo compliance

### Items

**Enclosed:** Standard battery, USB adapter (QC2.0), hand strap, USB cable  
**Sold Separately:** Extended battery, extended battery cover, stylus, OptiCare comprehensive care for 2, 3 or 5 years  
**Cradle (charging and communication):** USB or ethernet single charge cradle with power adapter