

L-250

2D CMOS Imager

The L-250 is a high performance handheld barcode scanner with outstanding durability and reliability. The integrated Opticon 2D CMOS imaging technology provides true point-and-shoot barcode scanning.



Highlights

- High speed 2D CMOS imager
- Efficiently scans and decodes a wide variety of 1D or 2D barcodes
- The L-250 comes standard with antimicrobial properties
- Custom configuration capabilities including multi-read
- Enhanced motion tolerance
- Improved scanning of curved, wide and poorly printed barcodes
- Pre-configured to suit a wide range of applications
- LED indicators on the top of the scanner
- Durable – survives 1.5 meter drop to concrete
- Trigger modes: manual, auto-trigger and stand detection
- Communication interface: USB Composite device (both serial and HID. Serial is always available for configuration)
- Available in black
- Available accessories: stand
- Backed by a two year warranty

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Product Specifications

Operation

CPU: Dual-core 1.2GHz

Operating indicators

Visual: 3 LED (red/green)

Non-visual: buzzer

Operating keys

Entry options: 1 scan key

Communication

USB: composite device (serial and HID)

Power

Voltage requirement: 5V $\pm$ 10%

Current consumption: Typ. 300mA

2D Imager optics

Light source: Aiming green LED, cool white illumination LED

Scan method: CMOS area sensor, 640 x 480 pixels

Scan rate: Up to 100 fps

Trigger mode: Manual, auto-trigger

Reading pitch angle: 360°

Reading skew angle: 15°

Reading tilt angle: 360°

Curvature: $R \geq 20$ mm (UPC)

Min. resolution at PCS 0.9: 0.2 mm

Field of view: Horizontal 33.2°, Vertical 25.4°

Min. PCS value: 0.2

Depth of field at code 39:

30 - 150 mm (0.127 mm) / 1.18 - 5.9 in (5 mil)

50 - 210 mm (0.254 mm) / 1.97 - 8.27 in (10 mil)

100 - 240 mm (0.508 mm) / 3.94 - 9.45 in (20 mil)

Depth of field at code 128:

25 - 150 mm (0.2 mm) / 0.98 - 5.9 in (7.9 mil)

Depth of field at EAN/UPC:

30 - 230 mm (0.33 mm) / 1.18 - 9.06 in (13 mil)

Depth of field at PDF417:

20 - 140 mm (0.169 mm) / 0.79 - 5.51 in (6.7 mil)

36 - 190 mm (0.254 mm) / 1.42 - 7.48 in (10 mil)

Depth of field at QR code:

30 - 115 mm (0.169 mm) / 1.18 - 4.53 in (6.7 mil)

50 - 200 mm (0.381 mm) / 1.97 - 7.87 in (15 mil)

Depth of field at Data Matrix:

40 - 110 mm (0.169 mm) / 1.57 - 4.33 in (6.7 mil)

20 - 145 mm (0.254 mm) / 0.79 - 5.7 in (10 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-ISMN, 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 70 °C / -4 to 158 °F

Temperature in storage: -40 to 70 °C / -40 to 158 °F

Humidity in operation: 5 - 90% (non-condensing)

Humidity in storage: 5 - 90% (non-condensing)

Ambient light immunity: Fluorescent 10,000 lx max, Sunlight 100,000 lx max, Incandescent 10,000 lx max

Max drop test: 1.5 m / 5 ft drop onto concrete surface

Vibration test: 10 - 100Hz with 2G for 1 hour

Physical

Dimensions Scanner (W x H x D): 105.4 x 153.4 x 60 mm / 4.15 x 6.04 x 2.36 in

Weight body: Ca. 112 g / 3.9 oz (excl. cable)

Case: Black

Cable Length: 1.5 Meter

Regulatory & safety

Product compliance: CE, FCC, RoHS, IEC62471-1:2006, EN55032, EN55035

Items

Sold separately: Stand