

L-22X

2D CMOS Imager

Featuring the perfect combination of performance, durability and reliability, the Opticon L-22X is a 2D CMOS imager handheld cabled scanner. It has an impressive design ensuring a comfortable grip and it looks great on the counter.



Highlights

- Sophisticated ergonomic design with an excellent price-to-performance ratio
- High speed 2D CMOS imager
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- Custom configuration capabilities including multi-read
- Enhanced motion tolerance
- Improved scanning of curved, wide and poorly printed barcodes
- Durable - survives 1.5 meter drop to concrete
- IP42 rating against dust and moisture
- Trigger modes: manual, auto-trigger and stand detection
- Communication interface: USB or RS232
- Available in black or white
- Stand included
- Backed by a two year warranty

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Product Specifications

Operation

CPU: ARM-Cortex-A7

Operating indicators

Visual: 3 color LED

Non-visual: buzzer, vibrating motor (optional)

Operating keys

Entry options: 1 scan key

Communication

RS232C: DB9 pin with external power supply

USB: ver. 2.0, HID/VCP, USB-A connector

Power

Voltage requirement: 5V \pm 10% (RS232C and USBCOM)

Current consumption: Typ. 340 mA (USB), 325 mA (RS-232)

2D Imager optics

Light source: Aiming green LED, warm white illumination LED

Scan method: CMOS area sensor, 640 x 480 pixels

Scan rate: Up to 100 fps

Trigger mode: Manual, auto-trigger, stand detection

Reading pitch angle: \pm 65°

Reading skew angle: \pm 65°

Reading tilt angle: 360°

Curvature: R \geq 20 mm (12-digit UPC)

Min. resolution at PCS 0.9: 0.1 mm

Field of view: Horizontal 38,0°, Vertical 26,4°

Min. PCS value: 0.2

Depth of field at code 39:

11 - 57 mm (0.127 mm) / 0.233 - 2.244 in (5 mil)

9 - 156 mm (0.254 mm) / 0.354 - 6.141 in (10 mil)

31 - 318 mm (0.508 mm) / 1.221 - 12.519 in (20 mil)

Depth of field at Code 128:

24 - 112 mm (0.2 mm) / 0.944 - 4.409 in (7.9 mil)

Depth of field at UPC:

9 - 195 mm (0.33 mm) / 0.354 - 7.667 in (13 mil)

Depth of field at PDF417:

4 - 76 mm (0.169 mm) / 0.157 - 2.992 in (6.7 mil)

0 - 130 mm (0.254 mm) / 0 - 5.118 in (10 mil)

Depth of field at QR Code:

20 - 44 mm (0.212 mm) / 0.787 - 1.7323 in (8.3 mil)

0 - 161 mm (0.381 mm) / 0 - 6.339 in (15 mil)

Depth of field at DataMatrix:

22 - 48 mm (0.169 mm) / 0.866 - 1.89 in (6.7 mil)

2 - 96 mm (0.254 mm) / 0.079 - 3.779 in (10 mil)

Supported symbologies

Barcode (1D): UPC-A, UPC-E, UPC-E1, UPC-A Add-on, UPC-E Add-on, EAN-13, EAN-8, EAN-13 Add-on/EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar, Industrial 2 of 5, Interleaved 2 of 5, S-code, Code 93, Code 128, GS1-128, IATA, MSI/Plessey, UK/Plessey, Telepen, Code 11, Matrix 2 of 5

Postal code: Chinese Post Matrix 2of5, Korean Postal Authority code, Japanese Postal, Intelligent Mail Barcode, POSTNET, PLANET, Netherlands KIX Code, Australian Postal, UK Postal, 4-State Mailmark Barcode

2D code: PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, Data Matrix (ECC 200), Maxi Code (Modes 2 to 5), Aztec Code, Chinese Sensible Code, OCR-B

Durability

Temperature in operation: -5 to 50 °C / 23 to 122 °F

Temperature in storage: -30 to 60 °C / 22 to 140 °F

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

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

Ambient light immunity: Fluorescent 10,000 lx max, direct sun 100,000 lx

Max drop test: 1.8 m / 6 ft drop onto concrete surface

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

Protection rate: IP42

Physical

Dimensions (W x H x D): 165.3 x 62.2 x 31.4 mm / 6.51 x 2.45 x 1.24 in

Cable length: 2.0 m

Weight body: Ca. 77 g / 2.7 oz (excl. cable)

Dimensions stand (W x H x D): 98.9 x 130.5 x 173.8 mm / 3.89 x 5.14 x 6.84 in

Weight stand: Ca. 120 g / 4.2 oz (excl. cable)

Case: ABS/PC, Black or White

Regulatory & safety

Product compliance: CE, FCC, VCCI Class B, RoHS, IEC61000-4-2, EN55032, EN55024 (EN61000-6-1) Class B

Items

Enclosed: Stand

Models

Interface versions: USB, RS232 cable