

L-22XS 2D CMOS Imager

The L-22XS is a 2D CMOS imager handheld cabled scanner that reads a wide variety of 1D or 2D barcodes. Features antimicrobial plastics that are disinfectant ready enabling the scanner to be sterilized without hindering its performance while keeping users safe from bacteria.



Highlights

- High speed (120 frames per second) 2D CMOS imager
- Sophisticated ergonomic design with an excellent price-to-performance ratio
- Rapidly scans and decodes a wide variety of 1D and 2D barcodes
- Exceptional depth-of-field and high-density barcode scanning: reads JAN 0.33 mm from 0-390 mm; 2D codes down to 0.127 mm (5 mil)
- Custom configuration capabilities including multi-read
- Improved scanning of curved, wide and poorly printed barcodes
- Industry's fastest motion tolerance: up to 10 m/s for quick, accurate scanning
- Outstanding ESD resistance for reliable use in retail and industrial settings
- Enhanced decoding algorithm and new optical system for top-tier performance
- Durable – survives 1.8 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
- Backward compatible with the L-22X, no hardware/software changes needed
- Backed by a two year warranty

L-22XS

Product Specifications



Operation

CPU: ARM-Cortex-A7

Operating indicators

Visual: 3 color LED

Non-visual: buzzer

Operating keys

Entry options: 1 scan key

Communication

RS232C: DB9 pin with external power supply

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

Power

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

Current consumption reading: Typ. 250 mA (USB/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 120 fps

Trigger mode: Manual, auto-trigger, stand detection

Reading pitch angle: ± 65°

Reading skew angle: ± 65°

Reading tilt angle: 360°

Curvature: R≥20 mm (12-digit UPC)

Min. resolution at PCS 0.9: 0.1 mm

Field of view: horizontal 38,0°, vertical 28,9°, Diagonal 46,4°

Min. PCS value: 0.2

Depth of field at code 39:

0 - 96 mm (0.127 mm) / 0 - 3.779 in (5 mil)

0 - 206 mm (0.254 mm) / 0 - 8.11 in (10 mil)

13 - 388 mm (0.508 mm) / 0.512 - 15.276 in (20 mil)

Depth of field at Code 128:

9 - 134 mm (0.2 mm) / 0.354 - 5.276 in (7.9 mil)

Depth of field at UPC:

0 - 273 mm (0.33 mm) / 0 - 10.748 in (13 mil)

Depth of field at PDF417:

0 - 47 mm (0.127 mm) / 0 - 1.85 in (5 mil)

0 - 137 mm (0.254 mm) / 0 - 5.394 in (10 mil)

Depth of field at QR Code:

17 - 29 mm (0.127 mm) / 0.669 - 1.142 in (5 mil)

0 - 176 mm (0.381 mm) / 0 - 6.929 in (15 mil)

Depth of field at DataMatrix:

22 - 33 mm (0.127 mm) / 0.866 - 1.299 in (5 mil)

0 - 100 mm (0.254 mm) / 0 - 3.937 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, no frost)

Humidity in storage: 5 to 90% (non-condensing, no frost)

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

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

Vibration test: 10 - 100Hz with 2G for 30 min

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

Optional: Wall mount stand

Models

Interface versions: USB, RS232 cable