

### 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  $\pm$  10% (RS232C and USB/COM)

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:  $\pm$  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 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