

L-46X

2D CMOS Imager Scanner



Highlights

- 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 six foot drop to concrete
- IP42 rating against dust and moisture
- Trigger modes: manual, auto-trigger and stand detection
- Communication interface: USB or RS232
- Interchangeable cables, making it easy to switch between USB or RS232
- Antimicrobial coating optional
- Available in black or white
- Stand included
- Backed by a two year warranty

L-46X

Product Specifications

OPERATING INDICATORS

CPU: ARM-Cortex-A7 800 MHz
VISUAL: White LED
AUDIBLE: Buzzer, vibrator(optional)

OPERATING KEYS

ENTRY OPTIONS: 1 scan key

COMMUNICATION

RS232: D-SUB9 pin (with external power supply)
USB: Version 2.0, HID/COM, USB-A connector

POWER

VOLTAGE REQUIREMENT: 5V \pm 5% (RS232)
CURRENT CONSUMPTION: Typ. 330mA

2D IMAGER OPTICS

ENGINE: Opticon
LIGHT SOURCE: Aiming green LED
SCAN METHOD: CMOS area sensor, 640 x 480 pixels
SCAN RATE: Up to 100 fps
TRIGGER MODE: Manual, auto-trigger
READING PITCH ANGLE: -65 to 0°, 0 to +65°
READING SKEW ANGLE: -65 to 0°, 0 to +65°
READING TILT ANGLE: 360°
CURVATURE: R>20 mm (12-digit UPC)
MINIMUM RESOLUTION AT PCS 0.9: 3.9 mil (0.1 mm)
MINIMUM PCS VALUE: 0.2
FIELD OF VIEW:
Horizontal: 38.0°
Vertical: 26.4°
Diagonal: 46.4°



DEPTH OF FIELD AT:

Code 39: 5 mil (0.127 mm) 0.91 - 2.72 in (23 - 69 mm)
Code 39: 10 mil (0.254 mm) 0.83 - 6.61 in (21 - 168 mm)
Code 39: 20 mil (0.508) 1.69 - 12.99 in (43 - 330 mm)
Code 128: 7.87mil (0.2 mm) 1.42 - 4.88 in (36 - 124 mm)
UPC: 13 mil (0.33 mm) 0.83 - 8.15 in (21 - 207 mm)
PDF417: 5 mil (0.169 mm) 0.63 - 3.46 in (16 - 88 mm)
PDF417: 10 mil (0.254 mm) 0.47 - 1.65 in (12 - 142 mm)
QR Code: 32 - 56 mm / 1.26 - 2.21 in (0.169 mm / 5 mil)
QR Code: 15 mil (0.381 mm) 0 - 6.81 in (0 - 173 mm)
Datamatrix: 5 mil (0.169 mm) 1.34 - 2.36 in (34 - 60 mm)
Datamatrix: 10 mil (0.254 mm) 0.55 - 4.25 in (14 - 108 mm)

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, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, GS1-128, MSI/Plessey, Code 11, OCR-B
POSTAL CODE: Japanese Postal, Intelligent Mail Barcode, POSTNET, PLANET, Netherlands KIX Code, UK Postal, Australian Postal, Korean Postal Authority code
BARCODE (GS1): GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1 DataBar, Composite GS1-128, Composite EAN, Composite UPC BARCODE(2D): PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 200), MaxiCode, Aztec Code, Chinese Sensible Code

DURABILITY

TEMPERATURE

Operation: 23 to 122 °F (-5 to 50 °C)
Storage: -22 to 140 °F (-30 to 60 °C)

HUMIDITY

Operation: 0 - 90% (non-condensing, no frost)
Storage: 0 - 90% (noncondensing, no frost)

AMBIENT LIGHT IMMUNITY

Fluorescent: 10,000 lx
Direct sun: 100,000 lx
Incandescent: 10,000 lx

DROP TEST: 6 ft (1.8 m) drop onto concrete surface

VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour

PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHxD):

Scanner: 4.15 x 6.04 x 2.36 in (105.4 x 153.4 x 60 mm)
Stand: 2.09 x 4.41 x 2.87 in (53 x 112 x 73 mm)

WEIGHT:

Body (excl. cable): Ca. 3.9 oz (112 g)
Body: Ca. 12.9 oz (365 g)

CASE: Black or white

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI Class B, RoHS, IEC 62471-1:2006, EN55032, EN55024

ENCLOSED ITEMS

POWER SUPPLY: 5V/2A (for RS232)

STAND

MODELS

INTERFACE VERSIONS: RS232, USB

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