

# L-46R

## Laser scanner

The L-46R features next generation scanning technology along with the perfect combination of performance, durability and reliability. It automates a variety of processes and is designed and built for all day, everyday use.



## Highlights

- Ergonomic design delivering the perfect combination of performance, durability and reliability
- Ideal solution for a variety of applications in retail, warehousing, distribution, healthcare, transportation and logistics
- 100 scans/second high speed laser scanner
- Durable—survives 1.8 meter drop to concrete
- IP42 rating against dust and moisture
- Antimicrobial coating optional
- Trigger modes: manual, auto-trigger and stand detection
- Communication interface: USB or RS232
- Interchangeable cables, making it easy to switch between USB or RS232
- Available in black or white
- Stand included
- Backed by a two year warranty

# L-46R

## Product Specifications



### Operation

CPU: 32-bit

### Operating indicators

Visual: 1 LED

Non-visual: buzzer, vibrator (optional)

### Operating keys

Entry options: 1 scan key

### Communication

RS232C: DB9 pin (with external power supply), D-SUB9  
pson pin 9 (optional)

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

### Power

Voltage requirement: 5V  $\pm$ 10%

Current consumption: 155 mA typical

### Barcode scanner optics

Light source: red laser, 650 nm

Scan method: 650 nm red laser diode, bi-directional  
scanning

Scan rate: Up to 100 scans / second

Trigger mode: Manual, auto-trigger, stand detection

Reading pitch angle:  $\pm$  35°

Reading skew angle: -50° to 8°, 8° to +50°

Reading tilt angle:  $\pm$  20°

Curvature: R $\geq$ 15 mm (EAN-8), R $\geq$ 20 mm (EAN13)

Min. resolution at PCS 0.9: 0.076 mm

Min. PCS value: 0.2

Depth of field at code 39:

10 - 60 mm (0.127 mm) / 0.39 - 2.36 in (5 mil)

5 - 90 mm (0.15 mm) / 0.2 - 3.54 in (6 mil)

5 - 200 mm (0.25 mm) / 0.2 - 7.87 in (9.84 mil)

0 - 495 mm (0.5 mm) / 0 - 19.49 in (20 mil)

20 - 895 mm (1.0 mm) / 0.79 - 35.24 in (39 mil)

### Supported symbologies

Barcode (1D): UPC-A, UPC-A Add-on, UPC-E, UPC-E  
Add-on, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-  
on, Code 39, NW-7 (Codabar), Industrial 2 of 5, Interlea-  
ved 2 of 5, Code 93, Code 128, GS1-128, MSI/Plessey-UK/  
Plessey, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar  
Limited, GS1 DataBar Expanded, TELEPEN

### 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 4,000 lx, direct  
sun 80,000 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 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. 111 g / 3.9 oz (excl. cable)

Dimensions Stand (W x H x D): 53 x 112 x 73 mm /  
2.09 x 4.41 x 2.87 in

Weight Stand: Ca. 365 g / 12.9 oz

Case: Black or White

### Regulatory & safety

Product compliance: CE, FCC, VCCI, RoHS, IEC/  
EN60825-1:2014, JIS C 6802:2014, CDRH Class II,  
EN55032, EN61000

### Items

Enclosed: Stand

### Models

Interface versions: RS232, USB