

# L-46R

## Laser Barcode Scanner



### 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 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-46R

## Product Specifications

### OPERATING INDICATORS

**CPU:** 32-bit AISC, 96 MHz  
**VISUAL:** Red laser diode  
**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  
**CURRENT CONSUMPTION:** 155mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** Red laser, 645 - 664 nm  
**SCAN METHOD:** 650 nm red laser diode, bi-directional scanning  
**SCAN RATE:** 100 scans/sec  
**TRIGGER MODE:** Manual, auto-trigger stand detection  
**READING PITCH ANGLE:** -35 to 0°, 0 to +35°  
**READING SKEW ANGLE:** -50 to 0°, 0 to +50°  
**READING TILT ANGLE:** -20 to 0°, 0 to +20°  
**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13)  
**MINIMUM RESOLUTION AT PCS 0.9:** 0.076 mm  
**MINIMUM PCS VALUE:** 0.2

### DEPTH OF FIELD:

39 mil (1 mm) 0.79 - 35.24 in (20 - 895 mm)  
20 mil (0.5 mm) 0 - 19.49 in (0 - 495 mm)  
15 mil (0.33 mm) 0 - 11.81 in (0 - 300 mm)  
9.84 mil (0.25 mm) 0.2 - 7.87 in (5 - 200 mm)  
6 mil (0.15 mm) 0.2 - 3.54 in (5 - 90 mm)  
5 mil (0.127 mm) 0.39 - 2.36 in (10 - 60mm)

### SUPPORTED SYMBOLOGIES

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, Interleaved 2 of 5, Code 93, Code 128, GS1-128, MSI/Plessey, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, PDF417, MicroPDF417

### DURABILITY

**TEMPERATURE:**  
Operation: 23 to 122 °F (-5 to 50 °C)  
Storage: -22 to 140 °F (-30 to 60 °C)  
**HUMIDITY:**  
Operation: 5 - 90% (non-condensing)  
Storage: 5 - 90% (non-condensing)  
**AMBIENT LIGHT IMMUNITY:**  
Fluorescent: 4,000 lx  
Direct sun: 80,000 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/EN 60825-1:2014, JIS C 6802:2014, CDRH Class II, EN55032, EN61000

### ENCLOSED ITEMS

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

### MODELS

**INTERFACE VERSIONS:** RS232, USB



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