

# RLB-1000

## Fixed Position Laser Scanner

### Highlights

- Rapidly scans (1000 scans/second) and decodes a wide variety of 1D barcodes
- Raster scanner—the RLB-1000 is the single line scanner version
- Complete unit with integrated decoder
- Durable—survives 2.5 foot drop to concrete
- IP54 rating against dust and moisture
- Compact size and weight: 1.14" x 0.67" x 1.34" (WxLxD) and 1.06 ounces
- Trigger modes: manual, multiple read and hardware and software trigger
- RS232 communication interface
- Backed by a two year warranty



# RLB-1000

## Product Specifications

### OPERATING INDICATORS

**VISUAL:** 1 LED (red/green/orange)

**AUDIBLE:** Buzzer

### COMMUNICATION

**RS232:** DB9 PTF connector with external power supply

### POWER

**VOLTAGE REQUIREMENT:** 5V  $\pm$  10%

**CURRENT CONSUMPTION:** Max. 500mA

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN METHOD:** Polygon mirror

**SCAN RATE:** 1000 scans/sec

**TRIGGER MODE:** Manual, multiple read, serial software trigger

**READING PITCH ANGLE:** -30 to 0°, 0 to +30°

**READING SKEW ANGLE:** -60 to -7°, +9 to +60°

**READING TILT ANGLE:** -25 to 0°, 0 to +25°

**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13)

**MINIMUM RESOLUTION AT PCS 0.9:** 6 mil (0.15 mm)

#### DEPTH OF FIELD AT PCS 0.9 CODE 39:

39 mil (1.0 mm) 2.76 - 12.99 in (70 - 330 mm)

20 mil (0.5 mm) 2.36 - 10.36 in (60 - 270 mm)

10 mil (0.25 mm) 2.36 - 7.87 in (60 - 200 mm)

6 mil (0.15 mm) 2.76 - 5.51 in (70 - 140 mm)

### SUPPORTED SYMBOLOGIES

**BARCODE (1D):** JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), IATA, Industrial 2of5, Interleaved 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

**BARCODE (POSTAL CODES):** Chinese Post

### DURABILITY

#### TEMPERATURE:

Operation: 32 to 113 °F 0 to 45 °C

Storage: -4 to 149 °F -20 to 65 °C

#### HUMIDITY:

Operation: 5 - 90% (non-condensing)

Storage: 5 - 90% (non-condensing)

#### AMBIENT LIGHT IMMUNITY:

Fluorescent: 4,000 lx max

Direct sun: 80,000lx max

Incandescent: 4,000 lx max

**ANTISTATIC ELECTRICITY:** 15kV (non-destructive)

**DROP TEST:** 2.5 ft (0.75 m) drop onto concrete surface

**PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (WXHxD):** 1.14 x 0.67 x 1.34 in (29 x 17 x 34 mm)

**WEIGHT BODY:** Ca. 1.06 oz (30 g) (excl. cable)

**CASE:** Metal diecast, Black

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 1, IEC 60825-1 Class 1, FDA CDRH Class I

### SOLD SEPARATELY

**POWER SUPPLY:** 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232)

### MODELS

**INTERFACE VERSION:** RS232

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