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L-50 Series

CCD - Laser

Featuring the perfect combination of performance, durability and style, the Opticon L-50 series scanner is designed for a wide variety of retail applications. The L-50 scanners feels good in the hand and it looks great on the counter.

Highlights

- Sophisticated ergonomic design with an excellent price-to-performance ratio

- Ideal solution for a variety of applications in retail, warehousing, distribution, healthcare, transportation and logistics

- Available with CCD or laser barcode scanner

- Rapidly scans and decodes a wide variety of 1D barcodes

- USB (HID) or RS232 interfaces available

- Replaceable interface cable

- Top panel design allows for customer customization such as logos

- Durable and reliable — withstands drops of 1.5 meter to concrete, IP42 rating

- Available in black or white

- Stand included for hands-free scanning

- Backed by a two year warranty

L-50 Series

Product Specifications

Operation
CPU: 32-bit

Operating indicators
Visual: 1 white LED
Non-visual: buzzer

Operating keys
Entry options: 1 scan key

Communication
RS232: DB9 pin (with external power supply)
USB: ver. 2.0, HID/VCP, USB-A connector

Power
Voltage requirement: 6V ± 10% (RS232), 5V ± 10% (USB)
Current consumption: Typ. 165 mA (RS232), Typ. 125 mA (USB)

Physical
Dimensions (W x H x D): 75.4 x 169.5 x 121.2 mm / 2.97 x 6.67 x 4.77 in
Weight body: Ca. 145 g / 5.1 oz (excl. cable)
Cable length: 2.0 m
Dimensions Stand (W x H x D): 106 x 323 x 146 mm / 4.17 x 12.72 x 5.75 in (excl. scanner)
Weight stand: Ca. 335 g / 11.8 oz
Case: ABS/PC, Black

Regulatory & safety
Product compliance: CE, FCC, VCCI, RoHS, IEC/EN62471-1:2006, EN55022, EN55024

Items
Enclosed: Stand

Models
Interface versions: RS232, USB

L-50C

Barcode scanner optics
Light source: 624 nm, red LED
Scan method: CCD linear image sensor, 1500 pixels
Scan rate: 300 scans/sec
Trigger mode: Manual, auto-trigger, stand detection
Reading pitch angle: ± 50º
Reading skew angle: -65º to 8º, 8º to +65º
Reading tilt angle: ± 25º
Curvature: R≥15 mm (EAN 8), R≥20 mm (EAN 13)
Min. resolution at PCS 0.9: 0.076 mm
Min. PCS value: 0.3
Depth of field at code 39:
35 - 90mm (0.127mm) / 1.38 - 3.54in (5mil)
30-120mm (0.15mm) / 1.18 - 4.72in (6mil)
15-220mm (0.254mm) / 0.59 - 8.66in (10mil)
25-350mm (0.508mm) / 0.98 - 13.78in (20mil)
40-600mm (1.0mm) / 1.57 - 23.62in (39mil)

Durability
Temp. in operation: 0 to 50 ºC / 32 to 122 ºF
Temperature in storage: -20 to 60 ºC / -4 to 140 ºF
Humidity in operation: 5% to 95% (non-condensing)
Humidity in storage: 5% to 95% (non-condensing)
Ambient light immunity: 10,000 lx max
Max drop test: 1.5 m / 5 ft drop onto concrete surface
Vibration test: 10 - 100Hz with 2G for 1 hour
Protection rate: IP42

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), GS1 DataBar (RSS), GS1 DataBar Limited, GS1 Databar Expanded, IATA, Industrial 2 of 5, Interleaved 2of5, ISBN-IS-MN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic
Postal code: Chinese Post Matrix 2of5, korean Postal Authority code

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L-50R

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: ± 35º
Reading skew angle: -50º to 8º, 8º to +50º
Reading tilt angle: ± 20º
Curvature: R≥15 mm (EAN8), R≥20 mm (EAN13)
Min. resolution at PCS 0.9: 0.076 mm
Min. PCS value: 0.3
Depth of field at code 39:
15-65mm (0.127mm) / 0.59-2.56in (5mil)
5-95mm (0.15mm) / 0.19-3.74in (6mil)
5-205mm (0.25mm) / 0.19-8.07in (9.84mil)
5-500mm (0.5mm) / 0.19-19.69in (20mil)
25-900mm (1.0mm) / 0.98-35.43in (39mil)

Durability
Temp. in operation: -20 to 50 ºC / -4 to 122 ºF
Temperature in storage: -30 to 60 ºC / -22 to 140 ºF
Humidity in operation: 5% to 95% (non-condensing)
Humidity in storage: 5% to 95% (non-condensing)
Ambient light immunity: Fluorescent 4,000 lx, direct sun 80,000 lx
Max drop test: 1.5 m / 5 ft drop onto concrete surface
Vibration test: 10 - 100Hz with 2G for 1 hour
Protection rate: IP42

Supported symbologies
Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), GS1 DataBar Limited, GS1 DataBar Expanded, IATA, Industrial 2 of 5, Interleaved 2 of 5, ISBN-ISSN-ISMN, Matrix 2 of 5, MSI/Plessey, UK/Plessey, S-Code, Telepen,Tri-Optic, Code 11
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