# OPTICON

# L-50C
## CCD scanner

Featuring the perfect combination of performance, durability and style, the L-50C scanner is designed for a variety of applications in retail, warehousing, distribution, healthcare, transportation and logistics. The L-50C scanner 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

- Enhanced decoding algorithms for ultra-fast (300 scans/second) barcode scanning

- 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-50C
## 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)

### 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: ± 50$^0$
Reading skew angle: -65$^0$ to 8$^0$, 8$^0$ to +65$^0$
Reading tilt angle: ± 25$^0$
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 - 90 mm (0.127mm) / 1.38 - 3.54 in (5mil)
30 - 120 mm (0.15mm) / 1.18 - 4.72 in (6mil)
15 - 220 mm (0.254mm) / 0.59 - 8.66 in (10mil)
25 - 350 mm (0.508mm) / 0.98 - 13.78 in (20mil)
40 - 600 mm (1.0mm) / 1.57 - 23.62 in (39mil)

### 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-ISMN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic
Postal code: Chinese Post Matrix 2of5, korean Postal Authority code

### 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

### 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