



# OPL 7736

bar code scanner  
handheld laser gun

The small sized and light weight OPL7736 bar code laser scanner is designed to fit your hand. The gun shaped body supplies comfort for frequently daily use and allows intuitive operation. The triggerkey below the scan head has a natural feeling and is activated by a single slight push. The visible good read LED on top of the scan head provides a clear indication during the scanning operation.

For fast and accurate barcode scanning the OPL7736 uses single line laser technology, enabling correct pointing and scanning from short to varying long distances by a solid laser beam. This technology is also the tool to read varying bar code label widths by just aiming the gun a bit further or closer to the label. Slightly curved labels can also be read.

The OPL7736 scanners are available in all popular interfacings to provide direct connection to the computer system. Simply plug the connector of the applicable scanner type into the computer. The options include RS232, keyboard wedge and USB.

A large variety of parameters can be user configured through a bar code configuration manual.



**Intuitive operation**  
laser technology activated  
by ergonomic triggerkey



## Features

## Benefits

- |                                  |                      |
|----------------------------------|----------------------|
| ■ Laser scan engine              | ■ Distance scanning  |
| ■ Light weight scanner           | ■ Easy to handle     |
| ■ Different interfaces available | ■ Easy connectivity  |
| ■ Ergonomic design               | ■ Comfortable in use |

## Applications

Any retail, office, or warehouse environment where intuitive barcode scanning at varying distances is required.

## “Good Design Award”

received 2001 by OPTOelectronics factory from  
Japan Industrial Design Promotion Organisation

# SPECIFICATIONS OPL 7736 bar code scanner handheld laser gun

## Electrical specifications

Voltage requirement	5 V $\pm$ 10%
Current consumption:	max. 100 mA at typical use
Rush current:	max. 150 mA
Idle current	max. 20 mA

## Optical specifications

Light source	650 nm visible laser diode
Scan method	vibrating mirror
Scan rate	100 scans/sec
Decode rate	100 decodes/sec
Reading width	45 - 305 mm, depending on reading distance and bar code label resolution
Reading angles	<input type="checkbox"/> Pitch: +8 - +50° / -8 - -50° <input type="checkbox"/> Skew: $\pm$ 30° <input type="checkbox"/> Rotation: 15°
Resolution at PCS 0.9	0.15 mm (6 mil)
Min. PCS Values	0.45
Depth of field	<input type="checkbox"/> 50 ~ 360 mm (EAN13 PCS0.9, resolution 1.00) <input type="checkbox"/> 30 ~ 270 mm (EAN13 PCS0.9, resolution 0.50) <input type="checkbox"/> 30 ~ 140 mm (EAN13 PCS0.9, resolution 0.25) <input type="checkbox"/> 30 ~ 70 mm (EAN13 PCS0.9, resolution 0.15)
Reading mode	<input type="checkbox"/> normal barcode reading <input type="checkbox"/> <i>optional</i> : parallel reading

## Physical specifications

Dimensions (h x w x d)	112 x 52 x 113 mm
Case material	ABS
Weight	<input type="checkbox"/> body : ca. 95 gr <input type="checkbox"/> cable: USB ca 50 gr / other ca.80 gr.
Standard connector	<input type="checkbox"/> RS 232: DB9 female additional: external power <input type="checkbox"/> keyboard wedge: DIN5 / miniDIN6 <input type="checkbox"/> USB: USB-A

## Functionality

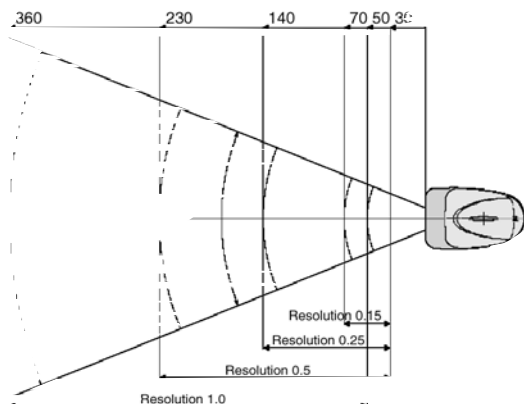
Trigger modes	Manual
Interface options	<input type="checkbox"/> RS232 <input type="checkbox"/> keyboard wedge (XT/AT, PS2) <input type="checkbox"/> USB
Configuration	over 300 parameters can be set by RS 232 or menu book

## Environmental specifications

Temperature	<input type="checkbox"/> 0 - +40 °C in operation <input type="checkbox"/> -10 - +60 °C in storage
Humidity (non condensing)	<input type="checkbox"/> 20 - 80 % in operation <input type="checkbox"/> 20 - 90 % in storage
Shock	drop: 1.5 m drop onto concrete surface vibration: 12 - 100 Hz with 2G for 1 hour
Ambient light rejection	<input type="checkbox"/> fluorescent 3.000 lux max. <input type="checkbox"/> white light 3.000 lux max. <input type="checkbox"/> direct sun 8.000 lux max.
Emission	According to EN50081, part 1
Immunity	According to EN50082, part 1
Safety, Laser class	According to IEC825, Class I laserproduct

## Supported symbologies

Chinese Post  
Codabar ABC and CX  
Code 39  
Code 93  
Code 128  
EAN-8 incl. +2,+5  
EAN-13 incl. +2,+5  
EAN-128  
IATA  
ISBN  
ISSN  
Industrial 2of5  
Interleaved 2of5  
Italian Pharmaceutical  
Laetus  
Matrix 2 of 5  
MSI/ Plessey  
UK/ Plessey  
Telepen  
S-Code  
UPC-A incl. +2,+5  
UPC-E incl. +2,+5



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