

Thanks to the omnidirectional laser pattern the OPM 1736B will read the bar code in any orientation. It can be used with a stand or as handscanner and has a wide range of application possibilities.

Omnidirectional

OPM 1736B

Omnidirectional laser scanner



Features

- Omnidirectional scanning
- Scan pattern of several lines
- Different interfaces available
- Compact size
- Light weight

Benefits

- No bar code orientation
- Instant bar code detection
- Easy connectivity RS232, wedge, USB
- Minimum space occupation
- Suitable for handheld use

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

OPM 1736B Omnidirectional laser scanner

Electrical specifications

Voltage requirement	5V ± 10 %
Current consumption	730 mA max (at reading, communication off)
Idle current	500 mA max

Optical specifications

Light source	650 nm visible laser diode
Scan method	rotating polygon mirror, Pattern of 4 parallel lines in 5 orientations (20 scan lines)
Scan rate	1000 scans/sec
Decode rate	1000 decodes/sec
Reading skew angle	+8 - +50°, -8 - -50° (at EAN13 PCS0.9, resolution 0.33, 10% skew, 70mm from window)
Reading rotation angle	360°
Reading tilt angle	± 35° (at EAN13 PCS0.9, resolution 0.33, 10% skew, 70mm from window)
Focal plane	70 mm from window
Curvature	R>20 (at EAN8, resolution 0.26mm), R>25 (at EAN13, resolution 0.26mm)
Min. Resolution at PCS 0.9	0.15 mm (6 mil)
Min. PCS value	0.45
Depth of field	40 - 230 mm, depending on reading distance and bar code label resolution, 70 - 230 mm (EAN13 PCS0.9, resolution 0.66), 40 - 200 mm (EAN13 PCS0.9, resolution 0.33), 40 - 110 mm (EAN13 PCS0.9, resolution 0.20), 40 - 70 mm (EAN13 PCS0.9, resolution 0.15)

Identification

Supported barcode symbologies	Chinese Post - Codabar ABC and CX - Code 39 incl. full ASCII - 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 - Matrix 2 of 5 - MSI/ Plessey - UK/Plessey - S-Code - Telepen - TriOptic - UPC-A incl. +2,+5 - UPC-E incl. +2,+5
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Functionality

Configuration	over 300 parameters can be set
Available interfaces	Keyboard Wedge: XT/AT and PS2, RS232, USB

Environmental specifications

Temperature in operation	0 - +40 °C
Temperature in storage	-40 - +60 °C
Humidity in operation	20 - 80 % (non condensing)
Shock vibration test	12 - 100 Hz with 2G for 1 hour
Humidity in storage	20 - 90 % (non condensing)
Ambient fluorescent light	3.000 lux max
Ambient white light	3.000 lux max
Ambient direct sun light	50.000 lux max
Shock drop test	1 m drop onto concrete surface

Physical specifications

Dimensions	(h x w x d) 100 x 71 x 79 mm
Case material	ABS
Weight body	200 g
Cable length	2 mtr straight
Connector Keyboard Wedge	DIN 5, MiniDIN 6 with external power
Connector RS232	DB9 F with external power
Connector USB	USB-A with external power

Stand

Dimensions	(h x w x d) 180 x 110 x 135 mm
Weight	380 g
Purpose	Stand for variable mounting options

Regulatory

Laser safety class	IEC 825, Class I laserproduct
EMC	EN 55022, EN 55024

