

OPI 2002

Imager Scanner



A lightweight 1.3 megapixel imager that provides the versatility to read all standard 1D and 2D barcode symbologies from any orientation. Simple and durable, yet comfortable and delivers the performance expected. Just plug it in and scan.

Product Features

Plug and Scan

The plug and play ability of the OPI 2002 allows the user to quickly connect and operate the scanner. Multi-interfacing and easy cable replacement put the exceptional scanning performance to immediate and interchangeable use.

Ergonomic and Lightweight

A lightweight and balanced design provides an ergonomic fit for all day extended use. Physical stress and user fatigue are reduced due to the OPI 2002 having a weight of only 135 g (4.8 oz) and a rubber stabilizer around the pistol grip thus providing maximum comfort during operation.

Enhanced Floodlighting

High performance LEDs create sharper contrast between the code and the background allowing for faster reading and decoding by the 1.3 megapixel imager while also improving performance by increasing the resistance to hand movement.

Application Versatility

With its unique blend of performance and ergonomics, the OPI 2002 is designed to fit in a wide range of applications. The wide scan angle provides unparalleled value in linear and 2D barcode reading, omnidirectional reading and image based-data capture.

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

OPI 2002 Imager Scanner

Electrical specifications

Voltage requirement: 6 V ± 5%

Current consumption: 340 mA (typical use)

Optical specifications

Light source: 10 red LEDs 630 nm

Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale

Scan rate: up to 30 fps

Reading pitch angle: -60 to 0°, 0 to +60°

Reading skew angle: -65 to 0°, 0 to +65°

Reading tilt angle: 360°

Focal plane: 110 mm / 4.33 in from window

Curvature: R>15 mm (EAN8), R>20 mm (EAN13)

Reading width: depending on reading distance and barcode label resolution

Min. resolution at PCS 0.9: 0.127 mm / 5 mil

Min. PCS value: 0.45

Depth of field: at *PDF417* and Code 39

40 - 195 mm / 1.57 - 7.68 in (res. 0.339 mm / 13 mil),

85 - 125 mm / 3.35 - 4.92 in (res. 0.127 mm / 5 mil),

35 - 230 mm / 1.38 - 9.06 in (res. 0.5 mm / 20 mil),

55 - 160 mm / 2.17 - 6.30 in (res. 0.25 mm / 10 mil),

85 - 125 mm / 3.35 - 4.92 in (res. 0.127 mm / 5 mil)

Field of view: horizontal: 47°, vertical: 37.5°

Communication specifications

Interface: Keyboard Wedge, RS232, USB(HID/VCP)

Identification

Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Codabar/NW-7, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, MSI/Plessey, RSS, Composite codes

Supported 2D code symbologies: Aztec Code, Aztec Runes, Data Matrix, (ECC200/EC0-140), Maxi Code (mode 2-5), MicroPDF417, Micro QR Code, PDF417, QR code

Functionality

Trigger mode: manual, multiple read, auto-trigger, stand detection

Upgradeability: via cable

Image format: Windows Bitmap, JPEG, TIFF

Gradulation: 256, 16, 2

Image output mode: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)

Environmental specifications

Temperature in operation: -20 to 50 °C / -4 to 122 °F

Temperature in storage: -25 to 70 °C / -13 to 158 °F

Humidity in operation: 5 - 95 % (non-condensing)

Humidity in storage: 5 - 95 % (non-condensing)

Ambient fluorescent light rejection: 10,000 lx max.

Ambient direct sun light rejection: 100,000 lx max.

Ambient incandescent light rejection: 10,000 lx max.

Antistatic electricity: 15 kV (non destructive)

Shock drop test: 1.8 m / 6 ft drop onto concrete surface

Shock vibration test: 10 - 100 Hz with 2G for 1 hour

Protection (dust and moisture, IEC529): IP 42

Physical specifications

Dimensions: 55 x 128 x 149 mm / 2.17 x 5.04 x 5.87 in

Weight body: Ca. 135 g / 4.8 oz (excl. cable)

Connector Keyboard Wedge: DIN5 F/M, MiniDIN6 F/M with power

Connector RS232: DB9 F with power

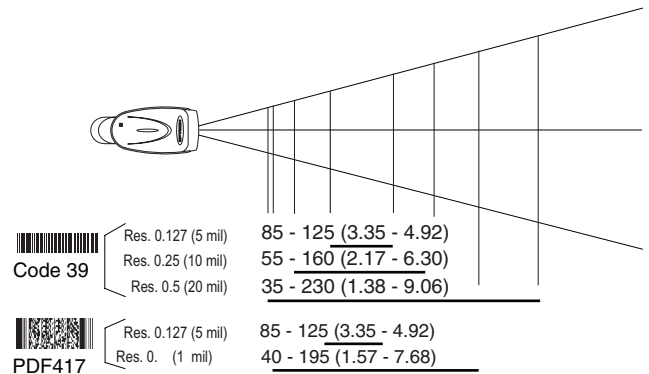
Connector USB: USB-A

Regulatory

EMC / Product compliance: CE, FCC, VCCI, RoHS

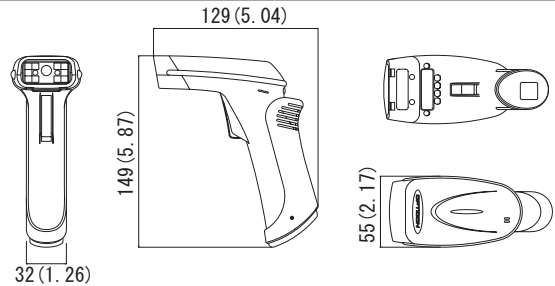
Depth of field

Unit: mm (in)



Dimension

unit: mm (in)



Accessories

Sold separately

AC Adapter: 6V/2A (power for Keyboard Wedge / RS232)

Auto-trigger stand: ST-80 white