

OPI 2201

Imager with auto-focus



A lightweight CMOS auto-focus imager that provides the versatility to read standard 1D and 2D codes. The optics feature self-adaption of the lens to focus on varying distances.

Product Features

Auto-focus imager

This imager consists of a real-time adapting lens, a fast shutter speed and auto-contrast control. Technology that provides good performance, increases the resistance to hand movement and creates sharp contrast images. This auto-focus function improves the motion tolerance from one work location by the ability to scan labels nearby, at far distances and difficult to reach angles.

Plug and Scan

The plug and play ability of the OPI 2201 allows the user to quickly connect and operate the scanner and make the effortless scanning feature of immediate use.

Ergonomic and Rugged

The OPI 2201 scan head rests on a sleek and balanced pistol grip to optimize the comfort for the operator. The product withstands multiple drops up to 1.5 meters (5 feet) onto concrete and is designed to scan also in freezing area's. Made of high-quality materials this design is perfect to endure several rigors of environmental conditions.

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

OPI 2201 Imager

Optical specifications

Light source: aiming laser diode, illumination LEDs
Scan method: CMOS area sensor, SXGA (1.3 million pixels), gray scale
Scan rate: up to 30 fps, after auto-focus activation (100ms after triggering)
Reading pitch angle: -45 to 0°, 0 to +45°
Reading skew angle: -60 to 0°, 0 to +60°
Reading tilt angle: 360°
Min. resolution at PCS 0.9: 0.127 mm / 5 mil, *0.169 mm / 7 mil*, at Code39 / QR Code and *Data Matrix*
Min. PCS value: 0.45/0.3
Depth of field: at *QR Code* and Code 39
15 - 40 mm / 0.59 - 1.57 in (res. 0.127 mm / 5 mil),
15 - 280 mm / 0.59 - 11.02 in (res. 0.339mm / 13 mil),
15 - 100 mm / 0.59 - 3.94 in (res. 0.1 mm / 4 mil),
15 - 155 mm / 0.59 - 6.10 in (res. 0.127 mm / 5 mil),
15 - 365 mm / 0.59 - 14.37 in (res. 0.254 mm / 10 mil),
90 - 1450 mm / 3.54 - 57.09 in (res. 1.0 mm / 39 mil)
Field of view: horizontal: 40°, vertical: 32°

Communication specifications

Available interfaces: RS232C, Keyboard Wedge, USB(HID/VCP)
--

Identification

Supported 1D Symbologies: 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 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
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 - 90 % (non-condensing)
Humidity in storage: 5 - 90 % (non-condensing)
Ambient fluorescent light immunity: 3,000 lx max
Ambient direct sun light immunity: 100,000 lx max
Shock drop test: 1.5 m / 5 ft drop onto concrete surface

Physical specifications

Dimensions: 175 x 72 x 95 mm / 6.89 x 2.83 x 3.74 in
Weight body: Ca. 185 g / 6.5 oz (excl cable)

Regulatory

Product compliance: CE, FCC, VCCI, RoHS
