

OPI-2201

2D CMOS Imager Scanner



Highlights

- 2D CMOS imager with auto-focus technology
- Rapidly scans and decodes a wide variety of 1D or 2D barcodes at 30 frames per second (FPS)
- Real-time adaptive liquid lens which self-adjusts for distance and angle
- Laser targeting to speed scanning
- Custom configuration capabilities
- Durable—survives six foot drop to concrete
- IP42 rating against dust and moisture
- Trigger modes: manual, multiple read, auto-trigger and stand detection (stand sold separately)
- Communication interface: RS232, keyboard wedge or USB
- Backed by a two year warranty

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Product Specifications

OPERATING INDICATORS

VISUAL: 1 LED (red/green/orange)

AUDIBLE: Buzzer

OPERATING KEYS

Entry options: 1 scan key

COMMUNICATION

RS232: DB9 PT F connector with external power supply

KEYBOARD WEDGE: MiniDIN6 F/M connector with external power supply

USB: Version 1.1, HID/VCP, US B-A connector

POWER

VOLTAGE REQUIREMENT: 5V ± 10% (US B), 6V ± 10% (RS 232 and Keyboard Wedge)

CURRENT CONSUMPTION: Maximum 350mA (scanning), maximum 75mA (standby)

2D IMAGER OPTICS

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 (100 ms after triggering)

TRIGGER MODE: Manual, multiple read, auto-trigger, stand detection

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)

READING PITCH ANGLE: -45 to 0°, 0 to +45°

READING SKEW ANGLE: -60 to 0°, 0 to +60°

READING TILT ANGLE: 360°

MINIMUM RESOLUTION CODE39 AT PCS 0.9: 5 mil (0.127 mm)

MINIMUM RESOLUTION QR CODE AND DATA MATRIX AT PCS 0.9: 7 mil (0.169 mm)

MINIMUM PCS VALUE: 0.45/0.3

FIELD OF VIEW: Horizontal 40°, Vertical 32°

DEPTH OF FIELD AT CODE 39:

4 mil (0.1 mm) 0.59 - 3.94 in (15 - 100 mm)

5 mil (0.127 mm) 0.59 - 6.10 in (15 - 155 mm)

10 mil (0.254 mm) 0.59 - 14.37 in (15 - 365 mm)

39 mil (1.0 mm) 3.54 - 57.09 in (90 - 1450 mm)

DEPTH OF FIELD QR CODE:

5 mil (0.127 mm) 0.59 - 1.57 in (15 - 40 mm)

13 mil (0.339 mm) 0.59 - 11.02 in (15 - 280 mm)

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), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN -ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

BARCODE (2D): Aztec Code, Aztec Runes, Codablock F, Composite codes, Data Matrix (ECC 200/EC 0-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

BARCODE (POSTAL CODES): Chinese Post, Korean Postal Authority code

DURABILITY

TEMPERATURE:

Operation: -4 to 122°F (-20 to 50°C)

Storage: -13 to 158°F (-25 to 70°C)

HUMIDITY:

Operation: 5 - 90% (non-condensing)

Storage: 5 - 90% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent: 10,000 lx max

Direct sun: 100,000 lx max

Incandescent: 10,000 lx max

DROP TEST: 6 ft (1.8 m) drop onto concrete surface

VIBRATION TEST: 12 - 100 Hz with 2G for 1 hour

PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHxD): 2.83 x 6.89 x 3.74 in (72 x 175 x 95 mm)

WEIGHT BODY: Ca. 6.2 oz 175 g (excl. cable)

CASE: ABS, Black or White

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI, RoHS, IEC 60825-1 Class 2, IEC 60825-1 Class 1

ENCLOSED ITEMS

POWER SUPPLY: 100-240V/0.5A, 50/60 Hz, 6V/2A (for RS 232 and Keyboard Wedge)

SOLD SEPARATELY

STAND

