OPI-3601

2D CMOS Imager Scanner

Highlights

- Full spectrum illuminated 2D CMOS imager

- Rapidly scans and decodes a wide variety of 1D or 2D barcodes

- 2.5 times faster than previous models

- Custom configuration capabilities including multi-read

- Enhanced motion tolerance

- Improved scanning of curved, wide and poorly printed barcodes

- Green bar LED aim function providing laser-free aiming with no laser class warning

- Durable – survives five foot drop to concrete

- IP42 rating against dust and moisture

- Trigger modes: manual, auto-trigger and stand detection

- Communication interface: RS232, keyboard wedge or USB

- Stand included with most configurations

- Backed by a two year warranty

≡ OPTICON

OPI-3601

Product Specifications

OPERATING INDICATORS

VISUAL: 1 LED / large LED (red/green/orange)
AUDIBLE: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 1 scan key

COMMUNICATION

RS232: DB9 PTF connector with external power supply
KEYBOARD WEDGE: Mini-DIN6 F/M connector
USB: Version 2.0, HID/VCP, US B-A connector

POWER

VOLTAGE REQUIREMENT: 6V +/- 5% (Keyboard Wedge), 6V, minimum 4.5, maximum 6.5V (RS232)
CURRENT CONSUMPTION: Maximum 350 mA (maximum typical use), 75mA (standby)

2D IMAGER OPTICS

LIGHT SOURCE: Green aiming LED, red illumination LEDs
SCAN METHOD: CMOS area sensor, 752 x 480 pixels, gray scale
SCAN RATE: 60 fps
FOCAL DISTANCE: 104 mm
TRIGGER MODE: Manual, multiple read, autotrigger, stand detection
IMAGE FORMAT: Windows Bitmap, JPEG, TIFF
GRADULATION: 1024, 256, 16, 2
IMAGE OUTPUT MODE: 4 resolutions (full, 1/2, 1/3, 1/4), 2 ranges (horizontal, vertical)
READING PITCH ANGLE: -50 to 0˚, 0 to +50˚
READING SKEW ANGLE: -50 to 0˚, 0 to +50˚
READING TILT ANGLE: 360˚
CURVATURE: R>16 mm (12-digit 0.15 mm Codabar), R>20 mm (13-digit UPC)
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
FIELD OF VIEW: Horizontal 40.6˚, Vertical 26.4˚
DEPTH OF FIELD AT CODE 39:
5 mil (0.127 mm) 2.56 - 4.13 in (65 - 105 mm)
10 mil (0.254 mm) 1.77 - 7.28 in (45 - 185 mm)
20 mil (0.508 mm) 1.97 - 9.84 in (50 - 250 mm)
DEPTH OF FIELD AT QR CODE:
8.4 mil (0.211 mm) 2.76 - 3.74 in (70 - 95 mm)
15 mil (0.381 mm) 1.38 - 6.50 in (35 - 165 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, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/EC0-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

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

DURABILITY

TEMPERATURE:
Operation: -4 - 122˚F (-20 - 50˚C)
Storage: -4 - 140˚F (-20 - 60˚C)

HUMIDITY:
Operation: 5 - 90% (noncondensing)
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: 5 ft (1.5 m) drop onto concrete surface
VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour
PROTECTION RATE: IP 42

PHYSICAL

DIMENSIONS (WXHXD): 2.20 x 5.85 x 4.26 in (56 x 148.6 x 108.1 mm)
WEIGHT BODY: Ca. 3 oz (85 g) (excl. cable)
CASE: ABS, black or white

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI, RoHS, IEC 62471-1, IEC 60825-1 Class 1, IEC 60950-1

ENCLOSED ITEMS

POWER SUPPLY: 90-265V/0.5A, 6V/2A (for RS232 and Keyboard Wedge)
STAND: Included with most configurations