

# P-250

## 2D CMOS Imager

The P-250 is specifically designed to deliver high-volume, hands-free scanning of any barcode no matter the quality. It can be incorporated into an assortment of application within retail, ticketing, kiosks and manufacturing. Ideal for fast QR code reading and customer loyalty scanning.



## Highlights

- Full spectrum illuminated 2D CMOS imager suitable for on and off screen scanning
- Wide-Angle Lens: Provides a broad field of view, enhancing the scanner's ability to capture barcodes from close by and various angles and positions
- 120 fps CMOS imager sensor enables high speed scanning of 1D and 2D barcodes
- Fast global shutter technology with auto exposure
- Supports various configurations for easy integration into different environments, such as point-of-sale systems and kiosks
- Intuitive touch-to-scan functionality ensures user-friendly operation, streamlining the scanning process
- IP64 (pending) rating against dust and moisture
- Built to withstand extreme conditions, our barcode scan engine operates reliably between -20°C and 70°C
- High-level motion tolerance for moving applications
- Adjustable illumination LEDs for optimal use with both paper and displays of varying backlight levels
- Good read LEDs: Dual status LEDs offer clear visual confirmation of successful scans, improving user experience.
- A buzzer for audible feedback signals to provide immediate acknowledgment of barcode reads, reducing the chances of missed scans
- Pairing the P-250 with the optional rubber sleeve and stand transforms it into a sleek and durable presentation scanner, ideal for any counter space.
- Communication interface: USB or RS232
- USB composite device, meaning it functions as both a keyboard (HID) and a serial port (COM) at the same time over a single USB connection.
- Backed by a two year warranty

# P-250

## Product Specifications



### Operation

CPU: Dual-core 1.2GHz  
Operating indicators:  
- Visual: LED (red/green)  
- Non-visual: Buzzer

### Communication

RJ50 pig tail: to USB cable or RS232 cable

### Power

Voltage requirement: 5V  $\pm$ 10%  
Operating Current: typ. 370 mA

### Barcode scanner optics

Light source: cool white illumination LED  
Scan method: CMOS area sensor, 640 x 480 pixels  
Scan rate: up to 120 fps  
Trigger mode: manual, auto-trigger  
Reading pitch angle:  $\pm$  65°  
Reading skew angle:  $\pm$  65°  
Reading tilt angle: 360°  
Curvature: R $\geq$ 20 mm (UPC)  
Min. resolution at pcs 0.9: 0.2 mm / 7.87 mil  
Min. pcs value: 0.2  
Field of view: horizontal 74°, vertical 60°  
Depth of field at code 39:  
5 - 70 mm (0.127 mm) / 0.19 - 2.76 in (5 mil)  
5 - 110 mm (0.254 mm) / 0.19 - 4.33 in (10 mil)  
30 - 135 mm (0.508 mm) / 1.18 - 5.31 in (20 mil)  
Depth of field at code EAN13:  
5 - 145 mm (0.33 mm) / 0.19 - 5.71 in (13 mil)  
Depth of field at code QR code:  
0 - 37 mm (0.169 mm) / 0.59 - 1.46 in (6.7 mil)  
0 - 105 mm (0.381 mm) / 0 - 4.13 in (15 mil)

### Supported symbologies

Barcode (1D): 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

Postal Code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority Code, POSTNET

2D Code: Aztec Code, Aztec Runes, Chinese Sensible Code, Codablock F, Composite Codes, DataMatrix (ECC000-140), Passport MRZ (OCR-B), MaxiCode (mode 2-5), DotCode, MicroPDF417, MicroQR Code, PDF417, QR Code

### Durability

Temperature in operation: -20 to 70 °C / -4 to 158 °F  
Temperature in storage: -40 to 70 °C / -40 to 158 °F  
Humidity in operation: 5 - 90% (non-condensing)  
Humidity in storage: 5 - 90% (non-condensing)  
Ambient light immunity: Fluorescent 10,000 lx max, direct sun 100,000 lx max, incandescent 10,000 lx max  
Protection rate: IP64 (pending)

### Physical

Dimensions (WxHxD): 77 x 68 x 39 mm / 3 x 2.7 x 1.5 in  
Weight: Ca. 80 g / 3.9 oz (excl. cable)  
Case: black  
Cable length: pig tail of 15 cm. RS232 or USB cable is sold separately

### Regulatory & Safety

CE, FCC, IEC62471:2006 (Exempt group), IEC 62368-1:2018

### Accessories sold separately

USB cable  
Stand with rubber sleeve