

ECS-219

FAST MOTION BARCODE SCANNER

The ECS-219 Fast Motion Barcode Scanner is a high-performance scanning solution designed for fast-paced environments.

Built to handle rapid item movement, it ensures reliable and accurate data capture in retail, self-checkout, and automation systems. Its rugged design and flexible installation options make it a dependable choice for high-throughput applications.



FEATURES

- High-resolution CMOS sensor for accurate decoding
- Advanced motion tolerance for fast-moving barcodes
- Reads 1D and 2D barcodes, including QR codes and Data Matrix
- Wide field of view for flexible mounting positions
- Strong ambient light immunity up to 100,000 lux
- Multiple interfaces: USB, USB-COM, optional RS232
- Durable housing with drop resistance for industrial use

ADVANTAGES

- Increases throughput and reduces queue times
- Maintains accuracy even at high scanning speeds
- Performs reliably under strong lighting conditions
- Supports continuous operation in high-traffic areas
- Designed for easy integration into existing systems

INDUSTRY VERTICALS

The ECS-219 Fast Motion Barcode Scanner is ideal for multiple industry applications:

- **Cash Registers & POS Systems** – fast and accurate scanning for high-volume retail
- **Self-Checkout Kiosks** – smooth barcode reading for customer-operated stations
- **Access Control Gates** – rapid identification and ticket validation
- **Recycling & Reverse Vending Machines** – reliable scanning of moving items in automated workflows



Capability

CMOS	1280x800 pixels	
Scanner LED	625 nm LED supplemental lighting	
2D Barcode	PDF417, MicroPDF417, QR code, Micro QR code, MaxiCode, Aztec, Hanxin Code, DataMatrix, etc.	
1D Barcode	ChinaPost 25, Codabar, Code 11, Code 128, Code 39, Code 93, EAN-13, EAN-8, Extended RSS, Industrial 25, Interleaved 2 of 5, Matrix 2 of 5, MSI-Plessey, Required RSS, RSS-14, Standard 2 of 5, UPC-A, UPC-E0, UPC-E1	
2D Resolution	≥5 mil	
1D Resolution	≥5 mil	
Reading Distance	UPC-A 13mil	20-280 mm
Contrast	≥20%	
Barcode Sensitivity	Tilt ±65°, Deflect ±75°, Rotation 360°	
Angle Range	42° (H) x 26° (V)	
Motion Tolerance	≥2 m/s	

Physical Characteristics

Interface	USB, USB COM, RS232 (optional)
Dimensions	160 mm (W) x 150 mm (D) x 80 mm (H)
Weight	420 g
Input Voltage	DC 5V ±5%
Currency	500mA

Environmental Characteristics

Working Temperature	-20°C ~ +55°C
Storage temperature	-40°C ~ +70°C
Working Humidity	5% ~ 95% (non-condensing)
Ambient Light level	0 ~ 100,000 LUX
Drop	1.5 m drops

Part Number

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