

ECS-8031

BARCODE SCANNER

The ECS-8031 barcode scanner is designed for self-service automation, making it ideal for access control, information kiosks, and vending machines.

This high-performance barcode reader ensures fast, accurate scans from both mobile screens and printed media, even in changing light conditions.

The ECS-8031 barcode reader also features flat front installation, with visual and audio feedback via LED and sound.



FEATURES

- Wide-angle lens for flexible reading distances
- Ideal for retail self-checkout, POS terminals, event registrations, and as a kiosk scanner
- Multiple connection options – USB, USB COM, and RS232
- Code read feedback via color-changing LED and audio beep
- Automatic LED illumination for low ambient light environments
- Wide operating temperature range: -20°C to +60°C
- Flexible mounting options – back and side installation supported
- Secure, easy-to-remove side connector for simplified integration

ADVANTAGES

- Reliable 2D barcode scanner with excellent 1D decoding performance
- Multi-interface support – USB, RS232, and TTL connections
- Wide operating temperature range – built for tough environments
- European-based support and logistics for fast and dependable service

INDUSTRY VERTICALS

The ECS-8031 barcode scanner is a versatile solution designed to perform reliably across a wide range of industry applications, including:

- **Sports betting terminals** – fast, accurate scanning for ticket validation
- **Self-service kiosks** – seamless integration and user-friendly performance
- **Event gateways** – ideal as an access control barcode scanner for entry management
- **Kiosks** – compact form factor suitable for indoor and outdoor scanner applications
- **Retail POS systems** – dependable scanning for quick checkout experiences
- **Consumer retail** – efficient barcode and QR code scanning for customer-facing setups
- **Healthcare environments** – reliable code reading for patient ID and label scanning
- **Logistics centers** – durable performance for label and tracking workflows
- **Transportation hubs** – high-speed scanning for ticketing and access systems



TECHNICAL SPECIFICATION

Capability

CMOS	640 x 480 pixels	
Scanner LED	White Light LED (6500K)	
2D Barcode	Aztec, Data Matrix, Hanxin, Maxicode, MicroPDF417, MicroQR, PDF417, QR Code	
1D Barcode	China, Codabar, Code 11, Code 128, Code 39, Code 93, EAN, GSI DataBar, Interleaved 2 of 5, Korean Postal, Matrix 2 of 5, Mis Plessey, Postal, UPC-A	
2D Resolution	≥7.5mil	
1D Resolution	≥3.9mil	
OCR	Optional MRZ verification for passports and ID cards	
Reading Distance	UPC-A 13mil	5~110 mm
	PDF417 6.88mil	0~50 mm
	Data Matrix 10mil	0~50 mm
	QR Code 20mil	0~100 mm
Contrast	≥15%	
Barcode Sensitivity	Deflection ± 60°, Lean ± 65°, Rotation 360°	
Angle Range	72° (H) x 64° (V)	
Motivation Tolerance	≥ 2 m/s	

Physical Characteristics

Interface	RS232, USB, USB COM
Dimensions (W x D x H)	77.5 mm (W) x 66 mm (D) x 45 (H) mm
Weight	75 g
Input Voltage	3.3-5 VDC

Environmental Characteristics

Working Temperature	-30°C ~ +60°C
Storage temperature	-40°C ~ +80°C
Working Humidity	5% ~ 95%
Ambient Light level	0~100,000 LUX
Drop	1.2 m drops

Accessories

METAL BRACKET ASSEMBLY ECS-8031	23201108
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Part Number

ECS-8031 Barcode Scanner	23107010
ECS-8031 Barcode Scanner with OCR	23107015

Available on Request	Manual
	Drivers
	2D Drawing

See the **ECS-8031** barcode scanner in action!

Product Video [↗](#)

