

ECS-8031C

BARCODE SCANNER

The ECS-8031C barcode scanner is a high-performance compact scanner designed for indoor use in applications such as self-service kiosks, access control systems, and POS terminals.

Despite its small footprint, it delivers exceptional scanning accuracy thanks to advanced decoding technology and integrated LED illumination.

With audible feedback and reliable performance, this barcode reader ensures seamless integration into modern automation setups.



FEATURES

- Compact size – ideal for integration in space-limited machinery
- Wide-angle lens – enables flexible reading distances
- Built-in USB and RS232 ports – for easy connectivity
- Reads 1D barcodes, including blurry or damaged codes
- Capable of scanning in low backlight conditions
- Six front mounting points – for secure installation
- Wide operating temperature range – from -20°C to +60°C

ADVANTAGES

- Compact scanner – perfect for space-saving integration
- Excellent decoding capability – ideal as a 2D or 1D barcode scanner
- Fast scanning performance – with clear audible feedback on successful reads
- Wide operating temperature range – suitable for various indoor environments
- European-based support and logistics – for responsive service and fast delivery

INDUSTRY VERTICALS

The ECS-8031C barcode reader is built for space-conscious environments and delivers reliable scanning across a wide range of industry applications:

- **Sports betting terminals** – fast, secure scanning for ticket validation
- **Self-service kiosks** – compact design ideal for seamless integration
- **Event gateways** – reliable for entry control and check-in systems
- **Kiosks** – suited for both informational and transactional use
- **Retail POS systems** – a dependable retail scanner for quick customer checkouts
- **Consumer retail** – ideal for compact, customer-facing applications
- **Healthcare environments** – reliable scanning for patient ID and sample labeling
- **Logistics centers** – accurate reads for tracking and package management
- **Transportation centers** – efficient ticketing and access control



TECHNICAL SPECIFICATION

Capability

CMOS	640 x 480 pixels	
Scanner LED	White Light LED (6500K)	
2D Barcode	Aztec code, Data Matrix, PDF417, QR Code	
1D Barcode	Codabar, Code 11, Code 128, Code 39, Code 93, EAN-13, EAN-8, GSI composite code, GSI Databar, Industrial 2 of 5, Interleaved 2 of 5, ISBN, Matrix 2 of 5, Meet OCR-A, MSI-Plessey, OCR-B font standard (customization), Standard 2 of 5, UCC/EAN-128, UPC-A, UPC-E	
2D Resolution	≥3mil	
1D Resolution	≥3mil	
OCR	Optional MRZ verification for passports and ID cards	
Reading Distance	UPC-A 13mil	25~260 mm
	PDF417 6.88mil	25~80 mm
	Data Matrix 10mil	25~83 mm
	QR Code 20mil	10~130 mm
Contrast	≥20%	
Barcode Sensitivity	Deflection ± 55°, Lean ± 60°, Rotation 360°	
Angle Range	Diagonal 80°	
Motivation Tolerance	≥2 m/s	

Physical Characteristics

Interface	TTL/RS-232, TTL3.3V, TTL5V, USB, USB COM
Dimensions (W x D x H)	64.8 mm (W) x 60.5 mm (D) x 21.2 (H) mm
Weight	30 g
Input Voltage	3.6-6 V/3.3 V (optional)

Environmental Characteristics

Working Temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +70°C
Working Humidity	5% ~ 95%
Ambient Light level	0~100,000 LUX
Drop	1.2 m drops

Part Number

ECS-8031C Barcode Scanner	23107012
ECS-8031C Barcode Scanner with OCR	23107021

Available on Request	Manual
	Drivers
	2D Drawing



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

Product Video [↗](#)

