



# ECS-8031 COMS Barcode Scanner Module - Data Sheet



Specifically developed for applications in Self Service Automation verticals, Access Control, Information Kiosks, Vending Machines, Sports Betting Terminals, Ticket Vending Machines, Parking Machines and Parcel Lockers.

The ECS-8031 provides exceptional first pass read performance for codes presented via Mobile phone Screens and Printed Media. Scan performance is maximized in variable light conditions via integrated LED that fully illuminates the white read area. The front bezel allows for rubber gasket placement to eliminate water ingress and the elevated glass allows for a flat front installation. Feedback of code read is via a colour change from white LEDs to green and a sound bleep. LED function can be set to Auto detect movement or permanent illumination.

## Features

- Wide angle lens enables flexible reading distance.
- Ideal for Retail self-checkout systems, POS terminals, and event registrations.
- Optional connection via USB, USB COM, and RS232.
- Code read feedback via a colour change LED and sound bleep.
- Automated LED illumination for low backlight circumstances.
- Wide operating temperature range -20°C~+60°C.
- Back and side mounting options.
- Secure easy to remove side connector.



ECS-8031 COMS Barcode Scanner  
**PART NO: 23107012**  
 METAL BRACKET ASSEMBLY ECS-8031  
**PART NO: 23201108**

## Technical Specification

- Model: **ECS-8031**
- CMOS: **640x480 Pixels**
- LED: **White Light LED (6500K)**
- Barcode:
  - 2D:** PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, MicroQR, Aztec, Hanxin
  - 1D:** UPC, EAN, Code 128, Code 39, Code 93, Matrix 2 of 5, Codabar, Interleaved 2 of 5, Mis Plessey, GSI DataBar, China Postal, Korean Postal
- Resolution:
  - 2D:** ≥3mil
- Reading Distance:
  - UPC-A 13 mil** 5~110 mm
  - PDF417 6.88mil** 0~50 mm
  - Data Matrix 10mil** 0~50 mm
  - QR Code 20mil** 0~100 mm
- Contrast: **≥20%**
- Barcode Sensitivity: **lean±60°, deflection±55°, rotation 360°**
- Angle Range: **Diagonal 80°**
- Motivation Tolerance: **≥2m/s**
- Interface: **TTL/RS232, USB, USB COM, TTL3.3V, TTL5V**
- Dimensions (W x D x H): **77.8mm x 74mm x 47mm**
- Weight: **75g**
- Input Voltage: **3.6-6V / 3.3V (optional)**
- Rated Current: **≥190mA (5V input)**
- Operating Temperature: **-20°C ~+60°C**
- Storage Temperature: **-40°C ~+70°C**
- Working Humidity: **5%~95%**
- Ambient Light level: **0~100,000LUX**
- Drop: **1.2m drops**
- Vibration: **2000G, 0.7ms, half sinus, 3 axes**