



1D & 2D



Superior



CMOS



Compact Size



TTL-232



Wide Scan Angle



Warranty
2 Years



EM3088-W
OEM Scan Engines

Features

Ultra-Wide viewing FOV

Featuring excellent near-field reading and the widest viewing angle H:99°/V:72.4°/D:109° in the AIDC industry, the EM3088-W scan engine offers stunning performance on decoding in close range for extended-length 1D barcodes or 2D barcodes with rich data.

Smooth Gradient Illumination

Designed with big-FOV and smooth gradient warm-white LED illumination, the EM3088-W maximizes the overall decoding performance in close-range reading.

Excellent Decoding Performance

With a 1280x800 pixel CMOS sensor, the EM3088-W is able to decode extended-length 1D barcodes, 2D barcodes with rich data, and even poor-quality barcodes (e.g., low contrast, laminated, damaged, torn, or wrinkled).

Scanning Moving Barcodes

By matching a global shutter with the right light emission and special decoding algorithms, the EM3088-W shows an impressive 2 m/s motion tolerance so that even fast-moving barcodes are reliably detected at short distances.

Suggested industries



Hospitality



Entertainment



Gaming



Healthcare



12 mm

21.7 mm

14.5 mm

EM3088-W Technical specifications

Data Capture

1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, ISSN, Code 93, UCC/EAN-128, GSI Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, AIM128, Plessey, MSI-Plessey
2D	PDF417, QR Code, Micro QR, Data Matrix, Aztec
Image Sensor	1280x800 CMOS
Illumination	White LED
Resolution	≥3mil (Code 39)
Depth of Field EAN 13 (13mil)	30-85mm
Depth of Field Code 39 (5mil)	35-65mm
Depth of Field PDF417 (6.7mil)	30-55mm
Depth of Field DataMatrix (10mil)	23-65mm
Depth of Field QR (15mil)	20-80mm
Field of View Horizontal	99°
Field of View Vertical	72.4°
Field of View Diagonal	109°
Scan Angle Roll	360°
Scan Angle Pitch	±50°
Scan Angle Skew	±50°
Minimal Print Contrast	25%

Physical

Current @ 3.3VDC Operating	423mA (max.)
Current @ 3.3VDC Standby	44mA
Dimensions (mm)	21.7(W) × 14.5 (D) × 12(H) mm (max)
Input Voltage	3.3VDC±5%
Interfaces	TTL-232, USB
Power Consumption	181.8mW (Typical)
Weight	3g

Environmental

Ambient Light	0lux
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5%~95% (non-condensing)

Software

Configuration Tools	EasySet
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Certifications

Hardware	FCC Part 15 Class B, CE EMC Class B, RoHS, IEC62471
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Warranty

Standard

2 years