Newland AIDC
SCANNING MADE SIMPLE



EM3088-W

Scan Engines

1D & 2D | CMOS | Compact Size | Superior Level | TTL-232 | Warranty 2 Years

Wide Scan Angle



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.

2 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

EM3088-W

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
Depth of Field Code 39 (5mil)	35 mm - 65 mm
Depth of Field DataMatrix (10mil)	23 mm - 65 mm
Depth of Field EAN 13 (13mil)	30 mm - 85 mm
Depth of Field PDF417 (6.7mil)	30 mm - 55 mm
Depth of Field QR (15mil)	20 mm - 80 mm
Field of View Diagonal	109°
Field of View Horizontal	99°
Field of View Vertical	72.4°
Illumination	White LED
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	25%
Resolution	≥3mil (Code 39)
Scan Angle Pitch	±50°
Scan Angle Roll	360°
Scan Angle Skew	±50°

Physical

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

Environmental

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

Software

Configuration Tools	EasySet

Certifications

Certifications Hardware	FCC Part15 Class B, CE EMC Class B, RoHS, IEC 62471

Warranty

Warranty Standard	2 Years

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Feel free to contact us or a partner near you.
info@newland-id.com - newland-id.com

Specifications are subject to change without notice

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