





## MT88L 2D Scan Engine

MT88L features a high-performance megapixel sensor, high-speed processor and a precision crosshair Laser aimer, delivering fast and accurate scanning in a compact form factor. Its all-in-one design combines advanced capabilities with easy integration, making it an ideal choice for a wide range of applications, including retail, logistics, field service, mobile POS, and inventory management.

## **Industry-Leading Performance in a Compact Form**

- High-visibility crosshair Laser aimer for accurate targeting
- Equipped with a high-quality megapixel sensor
- Delivers aggressive reading distance of up to 720mm
- Supports all major 1D, 2D, postal codes and OCR fonts

## **Easy and Flexible Operations**

- Small Size: W21.5 x L10.5 x H7 mm
- Interface: UART / USB HID / USB VCP
- Compatible with existing global leaders
- Minimal integration time and cost





Optic & Performance	
Light Source	White LED, Visible red Laser
Sensor	1280 x 800
Resolution	3.3 mil
Scan Angle	Horizontal 39° , Vertical 26°
Pitch / Skew / Roll Angle	±60° / ±60° / ±360°
Print Contrast Ratio	10%
Typical D.O.F (@800 lux)	UPC / EAN 13 Mil: 50 ~ 720 mm QR Code 15 Mil : 30 ~ 400 mm

Physical Characteristics	
Dimension	W21.7 x L10.5 x H7 mm
Weight	5 g
Color	Black
Material	Plastic
Connector	12pin ZIF (pitch=0.5mm)
Cable	12pin FFC cable (pitch=0.5mm)
Electrical	
Operation Voltage	3.2 ~ 3.6 VDC ±5%
Working Current	Typ. 280 mA
Standby Current	Typ. 40mA (UART), Typ. 45mA (USB)
Idle Current (Sleep Mode)	Max. 5mA
Connectivity	

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User Environment	
Operating Temperature	-20°C ~ 65°C
Storage Temperature	-40°C ~ 70°C
Humidity	5%~95% RH (Non-condensing)
Ambient Light	100,000 Lux (Sunlight)
Regulatory	
ESD	Functional after 4KV contact, 8KV air discharge
EMC/RF	TBA
Environmental	RoHS 2.0
Symbologies	
1D	Code128, Code39, Code93, EAN-13, EAN-8, UPC-E, UPC-A, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, GS1 Databar, Codabar, MSI Plessey, Code 11, Standard 2 of 5, Plessey, ChinaPost 2 of 5, Code 16K, Code49, GS1 Composite
2D	PDF417, MicroPDF417, Data Matrix, MaxiCode, QR Code, Micro QR Code, Aztec, Han Xin, GridMatrix

UART / USB HID / USB VCP



MARSON TECHNOLOGY CO., LTD.

TEL: +886-2-2218-1633 FAX: +886-2-2218-6638 Web: www.marsonscan.com



Postal Codes

OCR





OCR-B (Passport MRZ)



Japanese Post, Australian Post, Korean35, MailMark, Netherlands KIX, UK Postal, US Postal, US Planet, USPS\_4CB



<sup>\*</sup> All specifications are subject to change without notice.