



MT83 Mini 2D Imager

MT83 Mini 2D Imager is designed to work with hardware or software decoder to achieve high performance and affordable 2D and 1D barcode scanning solution.

This powerful, reliable mini 2D imager is an ideal choice for a variety of applications, including ticketing, access control, mobile payment and manufacturing.

Ideal for Software Decoder Applications

- Built with million pixels image sensor
- Outstanding 1D and 2D scanning performance
- Fits into the most space-constrained product
- Standard MIPI interface makes hardware integration easy

Easy and Flexible Operations

- Small Size : W22.3 x L11.75 x H6.8 mm
- Interface : MIPI



Optic & Performance	
Light Source	3000K CCT white LED 625nm visible red LED dot aimer
Sensor	1280 x 800 pixels
Resolution	4Mil/ 0.1mm (Code 39) 8Mil/ 0.2mm (QR Code)
Scan Angle	Horizontal 42°, Vertical 27°
Pitch / Skew / Roll Angle	±60° / ±30° / 360°
Print Contrast Ratio	30%
Width of Field	110mm (13Mil Code39)
Typical D.O.F (@800 lux)	UPC/ EAN 13 Mil: 35 ~ 456 mm QR Code 15 Mil: 33 ~ 351 mm
Physical Characteristics	
Dimension	W22.3 x L11.75 x H6.8 mm
Weight	1.3g
Color	Black
Material	ABS
Connector	25pin ZIF (pitch=0.3mm)
Cable	25pin flex cable (pitch=0.3mm)
Electrical	
Operation Voltage	3.3 ± 5%
Working Current	< 180mA
Standby Current	< 85mA
Connectivity	
Interface/ Profile	MIPI
Compatibility	Software Decoder
User Environment	
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Humidity	0% ~ 95% RH (Non-condensing)
Drop Durability	1.5M
Ambient Light	100,000 Lux (Sunlight)
Regulatory	
ESD	Functional after 4KV contact, 8KV Air discharge (requires housing that is designed for ESD protection and stray from electric fields)
EMC	TBA
Safety Approval	EN/IEC62471 (Group 1)
Environmental	WEEE, RoHS 2.0
Symbologies	
1D	Code39, Interleaved 2 of 5, Codabar, Code128, Code93, UPC/EAN/JAN, GS1-128, Code11, Code32, UK Plessey Code, MSI Plessey Code, Telepen, Trioptic, Straight 2 of 5, IATA Code, Matrix 2 of 5, Hong Kong 2 of 5, NEC 2 of 5, BC412, Pharmacode.
2D	QR Code, PDF417, Micro PDF417, Aztec, Data Matrix

* Note : Symbologies and DOF are based on Software Decoder
* All specifications are subject to change without notice.



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