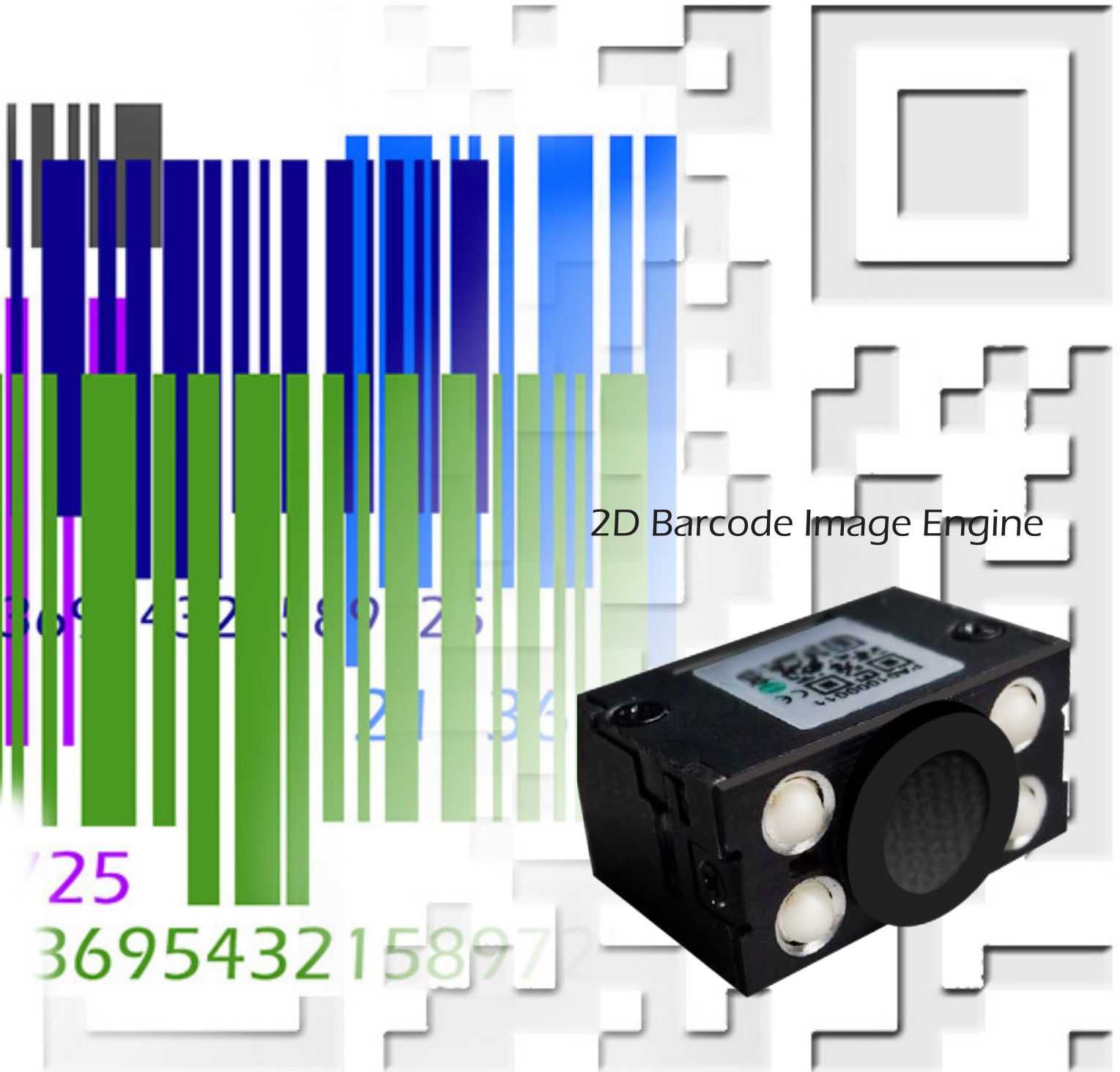


2D Image Engine

ME5110



2D Barcode Image Engine

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ME5110

Specifications

Physical Characteristics				
Dimensions	Optics module	10.0 mm(H) × 20.0 mm(W) × 16.2 mm(D)	Cable	Tapered 12-pin flex strip (12 × 0.5 mm)
	Decoder board	23.3 mm(H) × 38.4 mm(W) × 8.5 mm(D)	Indicator Interface	To control external Beeper and LED
Weight	Optics module	8 g	Trigger mode	Good-Read off, Momentary, Alternate, Continuous, Time-Out Off, Host
	Decoder board	7 g		
Performance Characteristics				
Image size	752 × 480 pixels			
Scanning angles	±60°, ±40°, ±42° (Skew, Pitch, Roll)			
Decode capability	1D: UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN (Bookland EAN), ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar (NW7), Code 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, UCC/EAN 128, China Post, China Finance, GS1 DataBar (formerly RSS) variants 2D: PDF417, MicroPDF417, QR Code, DataMatrix, Han Xin Code, Aztec Code			
Min. element width	3.5 mil, 1 mil = 0.0254 mm			
Decoding depth	3.5mil Code128 (9 chars): 1.5cm – 3.5cm 5mil Code39 (20 chars): 0.8cm – 5.5cm 13mil UPC (12 chars): 0.7cm – 16.5cm 20mil Code39 (5 chars): 3.5cm – 21.0cm		6.7mil PDF417 (20 chars): 0.0cm – 7.5cm 10 mil DM (20 chars): 0.0cm – 11.5cm 20 mil QR (20 chars): 0.0cm – 19.5cm	
Programming method	Manual (scanning special barcodes in sequence), or sending commands via RS-232 interface			
Firmware upgrade	Online			
User Environment				
Temperature	Operating: -10 °C to 50 °C (-4 °F to 122 °F)	Input voltage	3.3 VDC±5%	
	Storage: -40 °C to 70 °C (-40 °F to 158 °F)	Scanning current	Typical: 360 mA	
	Humidity 5% to 90% (non-condensing)	Standby current	Maximum: 386 mA	
			8 mA	
Regulatory				
Mechanical shock	IEC 60068-2-6			
	Un-powered engine withstands a random vibration along each of the X, Y and Z axes for a period of one hour per axis, define as follows:			
	20 to 80 Hz Ramp up to 0.04G2/Hz at the rate of 3dB/oct			
	80 to 350 Hz 0.04G2/Hz			
	Mechanical vibration			
Safety	350Hz to 2000Hz Ramp down at the rate of 3dB/oct			
	IEC 60068-2-27			
	Shock pulse: 0.5ms, Maximal acceleration: 1500G, Shock direction & time: ±X-axis, ±Y-axis, ±Z-axis, 3 times for each direction, total of 18 times.			
	Laser Safety: EN60825-1, Class 1			
	EMC: EN 55022			
	ESD protection: EN 55024 (IEC 61000-4-2, contact discharge: ±2kV, air discharge: ±8kV), IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11			
	RF immunity: IEC 61000-4-3, 10V/m			
	Artificial light immunity: 100,000 lux			

*Specifications subject to change without notice.

