



1d



2d



megapixel



usb



TTL-232

ttl-232

**EM2037V4**

oem scan engines

Features

Superior decoding performance.

No matter what type of barcode is presented, the megapixel camera allows users to scan 1D and 2D barcodes, including very small ones, with impressive speed and ease. In addition to excellent scanning of high-density barcodes, the EM2037V4 also provides the added value of decoding postal barcodes.

Advanced technology.

The EM2037V4 is powered by advanced imaging technology and Newland patented UIMG technology. Utilizing a computerized image recognition system, the EM2037V4 can read barcodes printed on paper, plastic or displayed on mobile phones with excellent motion tolerance.

Powerful data editing capability.

The scan engine allows customized scanned data with ease and provides supporting software to address diverse application needs.

Compact & lightweight design.

Seamless integration of the imager and decoder board makes the scan engine very small, lightweight and easy for integration.

Various interfaces.

The EM2037V4 supports USB and TTL interfaces to meet customer needs.

Application Scenarios



industrial



manufacturing



ticketing

EM2037V4 technical specifications

Performance	Processor	1GHz,X1500
	Image Sensor	CMOS 1280 * 800
	Illumination	Red LED
	Aiming	Red LED
	Depth of Field EAN13 (13mil)	45-365mm
	Depth of Field CODE 39 (5mil)	35-100mm
	Depth of Field PDF417 (6.67mil)	40-90mm
	Depth of Field Data Matrix (10mil)	40-80mm
	Minimal Print Contrast	25%
	Scan Angle Roll	360°
	Scan Angle Pitch	±55°
	Scan Angle Skew	±55°
	Field of View Horizontal	39°
	Field of View Vertical	24°
	Scan Modes	Level Mode, Sense Mode, Continuous Mode, Pulse Mode
	Scan Rate	60 frames per second
Data capture	1D	EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6, Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code 11, MSI-Plessey, UCC/EAN Composite, GS1 Databar, China Post 25, Code 49, Code 16K
	2D	PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode, Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One
Physical	Dimensions (mm)	39.5(W)×25.4(D)×20(H)mm (max.)
	Weight	11g
	Material	PC, PMMA
	Interfaces	TTL, USB
	Input Voltage	12-pin FPC connector: 3.3-5 VDC±5% 5-pin box connector: 5VDC±5%
	Current @ 5VDC Operating	276.6mA (typical), 332.3mA (max.)
	Current @ 5VDC Standby	57.4mA (typical)
	Power Consumption	1456.5mW (typical)
	Power Supply Input	DC5V, 1.5A
Environmental	Power Supply Output	AC100~240V, 50~60Hz
	Ambient Light	0~100,000lux (natural light)
	Operating Temperature	-20°C to 60°C (-4°F to 140°F)
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Accessories	Humidity	5%~95% (non-condensing)
	Optional	EVK2037, RS232 Cable, Adapter, USB Cable
Device Management	Standard	75mm FFC
	Software	EasySet (configuration)
Certifications	Certifications	FCC Part15 Class B; CE EMC Class B, RoHS, IEC62471
Waranty	Warranty	2 years

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