



















### **Features**

#### Unparalleled Barcode Reading Performance.

Improve speed and productivity with the EM3090. The engine scans 1D and 2D barcodes without delay and with a particularly exceptional performance in linear barcode reading. Through optimized design and Newland's sixth generation UIMG technology the EM3090 allows for first time every time scanning, even when a barcode is damaged or displayed on a screen set to its lowest brightness level.

#### Multi-Interface.

The EM3090 supports USB and TTL-232 interfaces to meet diverse customer needs.

#### Compact and Lightweight.

With seamless integration of the image sensor and decoder board, this compact and lightweight engine can be easily integrated into the most space-constrained devices, including handheld scanners, selfservice kiosks, ATMs, lottery terminals and more.

#### Low Power Consumption.

The advanced NLDC technology incorporated in the EM3090 helps reduce the power consumption and prolong the service life of the device.

#### **Application Scenarios.**

Self-service cabinets used in e-commerce, express delivery services and smart homes, ATMs, kiosks, queue machines, lottery terminals, certificate makers and more.

## **Application Scenarios**







industrial

manufacturing

self service

# EM3090 technical specifications

Performance	Processor	0390 Chip+MCU
	Image Sensor	CMOS 752*480
	Illumination	Red LED 625±10 nm
	Aiming	Green LED
	Depth of Field EAN13 (13mil)	50-445mm
	Depth of Field CODE 39 (5mil)	50-215mm
	Depth of Field PDF417 (6.67mil)	70-160mm
	Depth of Field Data Matrix (10mil)	60-150mm
	Depth of Field QR (15mil)	) 35-210mm
	Minimal Print Contrast	25%
	Scan Angle Roll	360°
	Scan Angle Pitch	±55°
	Scan Angle Skew	±55°
	Field of View Horizontal	
	Field of View Vertical	23°
	Scan Modes	Batch Mode, Trigger Mode, Sense Mode, Continuous Mode
	Scan Rate	60 frames per second
Data capture	1D	Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Code 39, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBarTM(RSS), (RSS-14, RSS-Limited, RSS-Expand)
	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code
Physical	Dimensions (mm)	28.0(W)×24.5(D)×13.9(H)mm
	Weight	9.5g
	Material	PC
	Interfaces	TTL,USB
	Input Voltage	3.3VDC±5%
	Current @ 3.3VDC Operating	190mA
	Current @ 3.3VDC Standby	7mA
	Power Supply Input	DC5V, 1.5A
	Power Supply Output	AC100~240V, 50~60Hz
Environmental	Ambient Light	0~100,000lux (natural light)
	Operating Temperature	-20°C~+55°C (-4°F~131°F)
	Storage Temperature	-40°C~+80°C (-40°F~176°F)
	Humidity	5%~95% (non-condensing)
	Tumuity	, , , ,
Accessories	Optional	EVK3030,RS232 Cable,Adapter,USB Cable
	Standard	75mm FFC
Certifications	Certifications	CE,FCC,RoHS,EN 62471
Warranty	Warranty	2 years

