



# RT214

## Super-small Barcode Scan Engine



The RT214 is a new generation scan engine launched in 2020. It's outstanding at its super small & compact design, lower power consumption and ability to read even poor quality bar codes and reading from phone screen even when the screen is lower brightness.

It is suitable for all kinds of small terminals: PDA, Tablet, Notebook, Bluetooth ring scanner, Bluetooth pocket scanner, etc.

### | Super Compact and Lightweight Design

The miniature size, light weight and seamless integration of imager and decoder board facilitates the integration of the barcode scan engine RT214 into a wide variety of thin-and-light equipment.

### | Read Poor Quality Bar Codes

Applied with newest technology, this barcode scan engine can easily read even poor quality bar codes: damaged bar codes, low contrast bar codes, torn bar codes, warped or wrinkled bar codes.

### | Automatic Reading

The scan engine RT214 supports to automatically detect and read the bar code when we present the ID documents or paper in front of it.

### | Lower power consumption

Using advanced technology so the new barcode scan engine is quite low power consumption and has outstanding power efficiency. This also prolongs the scan engine's service life.

### | Excellent Bar Code Reading Performance

Great performance to read most types of common 1d /2d bar code, whatever read from paper or from phone screen. And it's outstanding at reading on-screen bar codes ***even when the screen is covered by protective film or with lower brightness.***

<b>Performance</b>	Image Sensor	640 * 480 CMOS		
	Illumination	White LED		
	Aiming	Red LED 625nm		
	Symbologies	2D	PDF417 , QR Code, Data Matrix, Micro QR	
		1D	EAN-13, EAN-8, UPC-A, UPC-E, Code128, Code 39, Codabar, UCC/EAN 128, RSS, ITF-14, ITF6, Standard 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Plessey, MSI Plessey, Code 11, Code 93, etc.	
	Resolution	≥3mil (differ from different type bar codes)		
	Typical Depth of Field	EAN-13	60-350mm (13mil)	
		Code 39	40-150mm (5mil)	
		PDF417	50-125mm (6.7mil)	
		Data Matrix	45-120mm (10mil)	
		QR Code	30-170mm (15mil)	
	Scan Mode	Sense mode, Continuous mode, Command trigger		
	Scan Angle	Roll: 360°, Pitch: ±60°, Skew:±60°		
Field of View	Horizontal 42°, Vertical 31.6°			
Min. Symbol Contrast	25%			
<b>Mechanical/ Electric</b>	Interface	TTL-232; USB		
	Dimensions	21.3(W)×9.0(D)×7.0(H) mm (max.)		
	Weight	1.2g		
	Notification	Beep, LED indicator		
	Operating Voltage	3.3VDC + 5%		
	Current @ 3.3VDC	Operating : 138mA(typical); Idle: 11.8mA		
<b>Environmental</b>	Operating Temperature	-20°C to 55°C		
	Storage Temperature	-40°C to 70°C		
	Humidity	5% to 95% (non-condensing)		
<b>Accessories (optional)</b>	Development kit board: equipped with a trigger button, beeper and RS-232 & USB interfaces	USB	USB virtual Com or USB-HID	
		RS-232	Standard DB9 RS232 interface	

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