

RT870W

IP67 Embedded 2D & QR Barcode Reader for Outdoor Use



RT870W is a high-performance embedded 2D and QR code reader designed for outdoor kiosks.

Engineered for outdoor kiosks, the RT870W features an IP67-rated waterproof housing and ultra-low power consumption. With superior sunlight readability, it ensures reliable scanning performance from dawn to dusk, even under direct sunlight. It is the ideal solution for outdoor vending machines, smart lockers, parking systems, and access control

Easy installation with free mounting bracket and sealing gasket



- **Omnidirectional scanning** of all common 1D and 2D barcodes
- **High-sensitivity detection** for fast and accurate decoding
- **Low-power design** for extended operation and reduced energy costs
- **Rugged IP67-rated sealing** for dustproof and waterproof performance in harsh environments
- **Reliable reading** of barcodes displayed on mobile phone screens, even in low-brightness or under direct sunlight conditions

Physical Characteristics	
Dimensions:	77mmx 66mmx 45mm
Weight:	75 g
Voltage:	5VDC±5%
Current:	Operation: 152 mA ; Peak: 313mA Standby (sense mode): 134 mA, Standby (trigger mode): 32 mA
Waterproof:	IP67
Performance Characteristics	
Image (Pixels):	640 pixels (H) x 480 pixels (V)
Light Source:	Illumination: 6500K LED
Field of View:	72°(H) x 64°(V)
Roll /Pitch /Yaw:	360°, ±65°, ±60°
Print Contrast:	20% minimum reflective difference
Interfaces Supported:	USB, RS232
Symbology Decode Capability	
1D barcode:	EAN, Code 128, Code 39, Code 93, Code 11, Matrix 2 of 5, Codabar, Interleaved 2of 5, GSI DataBar, etc.
2D Barcode:	PDF417, MicroPDF417, Data Matrix, Maxicode, QR Code, Micro QR, Aztec, etc.
Minimum Resolution:	5 mil Code39
User Environment	
Operating Temperature:	-25°C to 60°C
Storage Temperature:	-50°C to 85°C
Humidity:	0% to 95% relative humidity, non-condensing
Shock Specifications:	Designed to withstand 1.5m(5') drops
Ambient Light Immunity:	0-100,000 Lux.
Decode Ranges	
20mil	5mm-100mm
13mil	5mm-110mm
Performance may be impacted by bar code quality and environmental conditions	



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