



# RT900

IP54 Water-proof & Dust-proof Industrial 2D Barcode Reader



- ▶ The RT900, based on outstanding 2D imaging processing technology and IP54 industrial standard performance, offers industry-leading barcode decoding performance and reliability for industrial level application. Water proof, dust proof and withstand drop from a height of 1.8 meters.



## Features:

- Omnidirectional scanning, able to read all of the standard one-dimensional bar codes and two-dimensional bar codes such as PDF417, micro PDF, and Data Matrix and QR
- Compliant with IP54 industrial level, durable and reliable
- Used with Medical-environmental-protection material, can be used for medical environment
- Accurate aiming and decoding, sensitive and fast
- Support Plug-in-play, decoded data can be output to application software such as MS Word, Excel...
- Readable bar code either from paper or phone screen

## Specification:

### Mechanical

Dimensions (LxWxH)	168mm x102mm x 71mm
Weight	170 g

### Electrical

Input Voltage	5 VDC
Electrical Safety	EN60950-1 UL60950-1
Operating Power	2W (400mA @ 5 VDC)
Standby Power	0.8W (160mA @ 5 VDC)
Illumination	625nm LEDs
LED Safety	IEC/EN60852-1:2001, IEC/EN62471:2006
Electromagnetic compatibility	FCC Part15 Class B, ICES-003 Class B, EN55024 RoHS directive 2002/95/EEC
Host System Interfaces	USB-HID(Default), RS232

### Environmental

Operating Temperature	0°C to 40°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% relative humidity, non-condensing
Drop	Withstand multi-time 1.8 m drops to concrete
Environmental Sealing	IP54
Illumination Levels	0 to 100,000 lux
Ambient Light Immunity	Indoor 1600lux, and sunlight 86000lux

### Scan Performance

Field of view	39.6°(H)* 25.8(V)°
Motion Tolerance	Up to 63.5 cm/s
Scan Angle	Horizontal 50°; Vertical: 20°
Symbol Contrast	25% minimum reflectance difference
Pitch, Skew,rotate	65°, 60°,360°
Decode Capability	1D: UPC\EAN with supplementals\ Bookland EAN\ ISSN\ UCC Coupon Extended Code\ Code 128\ GS1-128\ ISBT 128\ Code 39\ Code 39 Full ASCII\ Trioptic Code 39\ Code 32\ Code 93\ Code 11\ Matrix 2 of 5\ interleaved 2 of 5\ Discrete 2 of 5\ Codabar\ MSI\ Chinese 2 of 5\ GSI DataBar Variants\ Korean 3 of 5\ ISBT Concat 2D:PDF417\ MicroPDF417\ Composite Codes\ TLC-39\ Data Matrix\ Maxicode\ QR code\ MicroQR\ Aztec 1 year factory warranty

## Typical Performance

5mil(1D)	35mm- 145mm
7mil(1D)	25mm- 230mm
13mil(1D)	20mm- 330mm
10mil(2D)	20mm- 330mm
15mil(2D)	20mm- 400mm

Typical Performance		Typical Working Ranges					
		HD Focus Range		SR Focus Range		ER Focus Range	
Bar Code Type	Symbol Density	Near	Far	Near	Far	Near	Far
Code 39	5.0mil	5.0mm	90mm	30mm	120mm	80mm	180mm
100%UPCA	13.0mil	13.0mm	200mm	15mm	350mm	10mm	480mm
Code39	20.0mil	20.0mm	250mm	15mm	350mm	20mm	550mm
PDF417	6.80mil	6.80mm	95mm	10mm	150mm	70mm	220mm
Data Matrix	10.0mil	10.0mm	110mm	10mm	180mm	65mm	260mm
QR Code	20.0mil	20.0mm	150mm	10mm	350mm	20mm	450mm
Resolution 1D Code 39		2.8mil(0.071mm)		4.8mil(0.122mm)		4.8mil(0.122mm)	
Resolution 2D Data Marix		4.8mil(0.122mm)		6.6mil(0.168mm)		7.5mil(0.191)	

Performance may be impacted by bar code quality and enviromental conditions

