RT830A

HAND-FREE AND OMNIDIRECTIONAL 2D BAR CODE SCANNER

RT830A is RTscan's new generation OEM 2D hand-free omnidirectional bar code scanner in 2017. With fixed mount and housing design, it is suitable for both desktop and embedded use. It is outstanding for its high speed motion tolerance (Up to 25in. (63.5cm) per second) and capacity to decode almost all types of bar codes, including Aztec, MaxiCode, QR, Data Matrix, PDF417, EAN code, etc. It has been optimized for reading bar codes from mobile phone.

Support presentation mode which detects and reads bar code automatically with USB-HID, USB-Virtual Com and RS232 interfaces.

▸ Hand-free and omnidirectional

▸ Large field of view

▸ High-speed motion tolerance

▸ Detect and read bar code automatically

▸ Can read from LCD screen and paper

▸ Can read bar code on phone screen even the screen in low brightness

▸ Support most 1D and 2D bar codes, like Aztec, QR, PDF417, DataMatrix codes

▸ Suitable for mobile phone payment/ e-ticket barcode read/e-coupon barcode read

▸ USB/RS232 Interface

Mechanical

Dimensions (LxWxH)	67mm x 67mm x 35mm
Weight	145.5 g

Electrical

Voltage	5 VDC±10%
Operating current	220mA
Light Source	illumination: 6500K LED
Host System Interfaces	USB HID-KBW, USB virtual COM, RS232

Environmental

Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	0% to 95% relative humidity, non-condensing
Drop	withstand 1.0 m drops to concrete on each of the faces
Ambient Light	0 to 100,000 lux

Scan Performance

Scan Pattern	Area Imager
Optical Resolution	CMOS 752*480 pixels
Scan Angle	Omnidirectional
Symbol Contrast	20% minimum reflectance difference
Scan Angle	Roll: 360°, Pitch: ±65°, Skew: ±50°
Field of View	Horizontal 115°, Vertical 90°
Decode Capability	2D: QR Code, Micro QR, Aztec, PDF417, Micro PDF417, Data Matrix, Maxicode , etc
	1D: Code 128, EAN-13, EAN-8, Code39, etc.

Typical Depth of Field	5mil 0mm-10mm
	13mil 0mm-30mm

RTSCAN