



The newly developed TDM scanner is a high performing 2D hand-held data matrix scanner. Idea for applications such as retail, health-care, transportation, logistics, license identifications, and etc...

Designed with the CMOS technology, the scanner features high-speed scanning and long scan range, capable of reading barcodes, images, OCR fonts, and capture signatures in an instance whether in dark or bright environments. In addition, TDM allows users to read wrinkled, damaged, or poorly printed barcode and OCR fonts.



Decodes all standard 1D, 2D, RSS, PDF417, microPDF, EAN/UCC Composite, Matrix, Postal Codes, and OCR fonts.

### ***Features:***

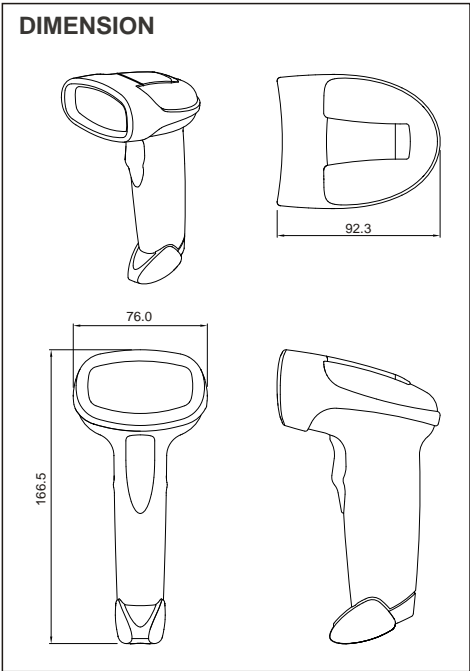
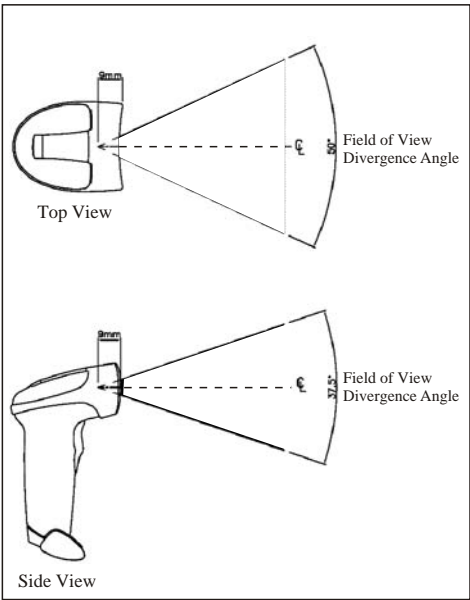
- Reads 1D & 2D Barcodes
- Suitable for all kinds of Industrial manufacturing applications
- Easy to use, Programmable, and fully functional
- Output Interface: USB(Default) or RS-232
- CMOS Image Sensor





# SPECIFICATIONS

Optical	
<b>Light Source</b>	Illumination: 650 nm; Aiming: 615 nm
<b>Scan Angle</b>	50° Horizontal, 37.5° Vertical
<b>Scan Pattern</b>	Area
<b>Scan Area</b>	118.4 mm x 86.2 mm (4.7" x 3.4") at 118 mm (4.6") from the scanner window edge 236.9 mm x 172.4 mm (9.3" x 6.8") at 245 mm (9.6") from the scanner window edge
<b>Rotation Sensitivity</b>	360 around the optical Axis
<b>Minimum Element Width</b>	10 mm (4.0 mil) 1-D 191 mm (7.5 mil) 2-D, Data Matrix
<b>Focal Point</b>	9 cm (4.0")
<b>Resolution</b>	1.3 mega pixel (1280 x 960)
<b>Print Contrast</b>	20% minimum
Symbolologies	
<b>1-D</b>	Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic
<b>2-D</b>	PDF417, Micro PDF417, QR Code, Micro QR Code, Data Matrix, Aztec Code, Maxicode, Codablock, Composite Code, POSTNET, PLANET, UPU, Intelligent Mail, Canada Post, Australia Post, Japanese Post, Royal Mail RM4SCC, KIX Code
<b>OCR Font (optional)</b>	OCR-A, OCR-B, E-13B MICR
Electrical Characteristics	
<b>Operating Voltage</b>	+5V, ±5%
<b>Typical Operating Current</b>	235 mA
<b>Peak Operating Current</b>	400 mA (USB), 400 mA (RS-232)
<b>Idle Current</b>	160 mA (USB), 125 mA (RS-232)
<b>Sleep Current</b>	65 mA (USB), 25 mA (RS-232)
<b>Suspend Current (USB)</b>	600 uA
<b>Power Down Current (RS-232)</b>	500 uA
<b>LED Class</b>	Class 1
<b>Interface</b>	USB, RS-232
Mechanical Characteristics	
<b>Cable Length</b>	1.8M straight cable
<b>Case Material</b>	ABS + polycarbonate, co-molded rubber
<b>Weight (approx.)</b>	133g (w/o cable)
<b>Shock Resistance</b>	1 meter drop onto concrete
Environment	
<b>Ambient Light</b>	0-100,000 lux
<b>Operating Temperature</b>	0° C to 40° C (32° F to 104° F)
<b>Storage Temperature</b>	-20° C to 70° C (-4° F to 158° F)
<b>Relative Humidity</b>	5% to 95%, non-condensing



Bar Code Element Width	Depth of Field* (In the Field of View)				
		Start (From Scanner Window Edge)	End (From Scanner Window Edge)	Total	
<b>1-D</b>	. 127 mm	5 mil	41 mm (1.6")	136 mm (5.3")	95 mm (3.7")
	. 254 mm	10 mil	21 mm (0.8")	201mm (7.9")	180 mm (7.1")
	. 330 mm	13 mil	16 mm (0.6")	301 mm (11.8")	285 mm (11.2")
<b>PDF</b>	. 127 mm	5 mil	36 mm (1.4")	151 mm (5.9")	115 mm (4.5")
	. 254 mm	10 mil	16 mm (0.6")	261 mm (10.2")	245 mm (9.6")
<b>Data Matrix</b>	. 254 mm	10 mil	41 mm (1.6")	86 mm (3.3")	45 mm (1.8")
	. 381 mm	15 mil	26 mm (1.0")	151 mm (5.9")	125 mm (4.9")
	. 508 mm	20 mil	31 mm (1.2")	251 mm (9.8")	220 mm (8.7")

\* Depth of field information is for reference only. Actual values may vary depending on testing conditions.

