



MT581 2D Wireless Ring Scanner

MT581 is a wireless wearable 2D wireless ring scanner that enable hands-free scanning for mobile operators who work with smart phones or other mobile device of devices of devices of iOS[®] and Android[®] With built-in Bluetooth[®] 5.0 technology and disinfectant-ready housing, MT581 provides 20-meter wireless data transmission and microbe-free scanning experience.

Ergonomic Design for Mobile Operators

- The smallest and lightest wireless ring barcode scanner.
- Wearable design enabling hands-free barcode scanning.
- Double strap design for long working hours.
- Ergonomic design with touch-activated scan button.

Easy and Flexible Operations

- Indicators: LED, Buzzer
- Interfaces: BT HID/BT SPP/USB HID/USB VCP/Memory



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Optic & Performance	
Light Source	White LED, Visible red LED
Sensor	640 x 480
Resolution	5mil / (1D barcode), 6.67mil (2D barcode)
Scan Angle	Horizontal 42°, Vertical 31.5°
Pitch / Skew / Roll Angle	±60° / ±60° / ±360°
Print Contrast Ratio	40%
Width of Field	156 mm (13Mil Code39)
Memory	2MB (20,000 barcodes)
Typical D.O.F (@800 lux)	UPC/ EAN 13 Mil: 65 ~ 345 mm
Physical Characteristics	
Dimension	W27.6 x L46.2 x H26.8 mm
Weight	19.4 g
Color	Black or White
Material	PC+ABS
Cable	Micro(M) to USB A(M) Cable, 1.5M
Trigger	Touch Scan Button, Function Button
Indicator	LED, Buzzer
Electrical	
Operation Voltage	3.7 VDC ± 5%
Working Current	< 190 mA
Standby Current	< 25 mA
Battery	3.7V, 240mAh, Li-Polymer Battery
Number of Scan (per full charge)	4,000 scans (1 scan/ 5 secs, Bluetooth connected)
Connectivity	
Radio	Bluetooth [®] 5.0 (Class 2)
Range	66 ft/ 20M (line of sight)
Interface/ Profile	BT HID, BT SPS, USB HID, USB VCP, Memory
User Environment	
Operating Temperature	-10 ~ 50°C
Storage Temperature	-20 ~ 60°C
Humidity	0% ~ 95% RH (Non-condensing)
Drop Durability	1.5 M
Sealing	IP42
Ambient Light	100,000 Lux (Sunlight)
Regulatory	
ESD	Functional after 4KV contact, 8KV air discharge
EMC/RF	FCC Part 15B Class B, Part15C CE EN62479, EN301489-1-17, EN300328 V2.2.2, TELEC
Safety Approval	IEC62471 (Exempt Group)
Environmental	WEEE, RoHS 2.0
Symbolgies	
1D	UPC-A/ UPC-E0/ UPC-E1, EAN-8/ EAN-13, Code128, Code39, Code93, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Standard 2 of 5, China Post 25, Code11, MSI Plessey, Plessey, GS1 Databar, GS1 Databar Limited, GS1 Databar Expanded
2D	QR Code, Micro QR Code, PDF417, MicroPDF417, Data Matrix, Aztec

* All specifications are subject to change without notice.

