

## Ring Scanner

# MT581 2D Wireless Ring Scanner

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

- The smallest and lightest 2D ring barcode scanner
- Wearable design enabling hands-free barcode scanning
- Double strap design for long working hours
- Ergonomic design with touch-activated scan button



### Fast 1D & 2D Barcode Data Capture

MT581, on an average of 1/10 seconds, scans all linear barcodes and major 2D barcodes printed on labels with either matte or glossy surface, or displayed on mobile phone or LCD screen. MT581 2D wireless ring scanner also delivers superior scanning in any orientation, which benefits enterprise with less downtime and increasing productivity.

### Ergonomic Design for Mobile Operators

MT581 provides the user freedom of movement to perform barcode scanning tasks comfortably while keeping both hands free. Thanks to the patented dual touch activated switches, the Velcro strap doesn't have to be tied too tightly; it prevents poor blood circulation and occupational injury as well as increase operators' satisfaction.

### Right and Left-Handed, With or Without Glove

MT581 allows mobile operators to wear on either their right or left hand according to user's preferences, and the operator can wear glove or don't. With a built-in memory of 2MB, MT581 can store data scanned in user-friendly file format when it is operated in memory mode.

### Anti-Microbial Scanner for Healthcare

Built with anti-microbial technology, MT581 can endure repeated alcohol or bleach cleaning and keep preventing the reproduction and spread of bacteria among nurses in hospital. The disinfectant-ready MT581 2D wireless ring scanner enables caregivers to quickly identify patients and dispense medications, keep up-to-date record and manage medical supplies inventory in an error-free manner.

Medical Certifications:

ISO 22196 (JIS Z 2801); ISO 11737-1, ISO 11737-2

### Easy and Flexible Operations

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



## Specifications

Optical & Performance	Light Source	White LED, 625nm Red LED
	Sensor	640 x 480
	Scan Rate	60 Frames/Sec
	Resolution	5mil (1D barcode) 6.67mil (2D barcode)
	Scan Angle	Horizontal 42°, Vertical 31.5°
	Pitch Angle	±60°
	Skew Angle	±30°
	Roll Angle	360°
	Print Contrast	40%
	Width of Field	156mm (13Mil Code39)
	Memory	2MB (20,000 barcodes)
	Typical D.O.F* (@ 800 Lux)	Code39      5 Mil : 45 ~ 145 mm UPC/EAN    13 Mil : 65 ~ 345 mm QR Code    15 Mil : 35 ~ 165 mm PDF417     6.67 Mil : 55 ~ 120 mm Data Matrix 10 Mil : 50 ~ 115 mm
	Physical Characteristics	Dimension
Weight		19.4g
Color		Black /White
Material		PC+ABS
Cable		Micro(M) to USB A(M) Cable, 1.5M
Trigger		Touch Switches, Function Button
Indicator		LED, Buzzer
Power	Operation Voltage	3.7 VDC ± 5%
	Working Current	< 190mA
	Standby Current	< 25mA
	Battery	3.7V, 240mAh, Li-Polymer Battery
	Battery Number of Scan (per full charge)	4500 scans (1 scan/ 5 secs, Bluetooth connected)
Connectivity	Radio	Bluetooth 5.0 dual mode (Class 2)
	Range (Distance)	66 ft/ 20m (line of sight)
	Interface/ Profile	BT HID/BT SPP/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)
Decode Capability	1D Symbolologies	UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code 93, Code 32, Code 128, Standard Code 39, Code 39, Interleaved 2 of 5, MSI Plessey Code, UK Plessey Code, EAN/UCC 128, IATA Code, GS1 Databar
	2D Symbolologies	QR Code, Micro QR Code, PDF417, Data Matrix, Aztec
Regulatory	ESD	Functional after 4KV contact, 8KV air discharge
	EMC / RF	FCC Part 15B Class B, Part15C, CE EN62479, EN301489-1-17, EN300328 V2.1.1
	Safety Approval	IEC62471 (Exempt Group)
	Environmental	WEEE, RoHS 2.0
	Medical Compliance	ISO 22196 (JIS Z 2801), ISO 11737-1/2

\* All Specifications are subject to change without notice.



**MARSON TECHNOLOGY CO., LTD.**  
 TEL: +886-2-2218-1633  
 FAX: +886-2-2218-6638  
 Email : [info@marson.com.tw](mailto:info@marson.com.tw)

