

CE FCC IP68

Meridian

MTS-R1

Robotic Total Station

Precision in Motion, Efficiency in Every Point

1"
Angle Accuracy

±1mm+1ppm
Distance Accuracy

60°/s
DC Servo Motor

1200m
APR

450m
Prism Search

5.5"
Color and Touch Screen



Meridian MTS-R1 Specification

Angle Measurement	Accuracy	1"
	Reading System	Absolute, continuous four-quadrant
	Display Resolution	0.1"/1"
Telescope	Angle Units	DEG 360°/GON 400/MIL 6.400
	Magnification/ Field of View	30X / 1°30'
	Tube Length	154mm
	Minimum focus Distance	1.2m
	Reticle	5 brightness levels adjustable
	Objective Aperture	45mm (EDM: 50mm)
	Pointer	Red Laser dot
Tilt Sensor	Type	Dual axis, liquid photoelectric sensor
	Compensation Range/ Accuracy	±4.0"/1"
Distance Measurement Range	Standard Prism Mode	3500m
	Reflectorless	1000m
Distance Measurement Accuracy	Standard Prism Mode	±1mm+1ppm
	Reflectorless	D<500m: ±2mm+2ppm D>500m: +5mm+2ppm
Measurement Time	Standard Prism Mode (Tracking/Fine)	0.1/0.3 sec
	Reflectorless	0.3-3 sec
Distance Measurement	Distance Unit	m/US ft/INT ft
	Display Resolution	1280×720
Motorization	Technology	DC Servo Motor
	Max Rotation Speed	60°/sec
	Rotation Time F1/F2	2.9 sec
APR	Centering Range	3-1200m(Standard prism) 800m(360°prism)
	Time	3-5 sec
	Search Range	±1.5° (Support window search)
PS	AIM Accuracy	±1mm @ 100m
	Search Range	1.5-450m
	Search Time	Typically 90°: 3.5 s
Laser Plummet	Angle	H: 360° V: ±18"
	Laser Type	Red laser dot, 635nm
Level Vial Sensitivity	Accuracy	±1.5mm at 1.5m
	Plate Level	30"/2 mm
Environmental Conditions	Circular Level	8"/2 mm
	Operating Temperature	-30°C to +50°C (-22°F to 122°F)
	Storage Temperature	-40°C to +70°C (-40°F to 158°F)
	Waterproof/Dustproof	IP55
Physical Specification	Humidity	95% non-condensing
	Dimensions	217 x 198 x 378 mm
Electrical	Weight (Battery and Tribrach Inclusive)	7 kg
	Battery Voltage/Capacity/Type	Li-ion rechargeable battery ×2, 5400mAh
	Operating Time	Up to 6 hours
Others	Battery Charger	110/220V, charging time 4h
	CPU	MTK6762
	Display	5.5-inch, TFT LCD screen, 720 x 1280 px (2 displays)
	Keyboard	17 keys x2
	OS	Android 11
	Memory	RAM: 4GB, ROM: 64GB
	Interface	RS232, USB Type-C (OTG), Micro SIM, TF Card
Data Transfer	Long range communication 450m, WLAN, USB-OTG, Network 4G, Temperature and pressure sensor	

*The above technical parameters are for your reference. The company reserves the right to change the design and planning of the product based on the actual product.



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Meridian

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