INTEC

Ranger M

Magnetic Design Total Station



2" Accuracy

1000m

Inpad software supported

Ranger M High-precision Total Station

Advanced Optical System
Europe optical technology helps effectively suppress chromatic aberration and make clearer observation.

BLE 5.0
Low energy enables more ways of measurement.

Efficient Processor
Equipped with ARM architecture arm processor to lower energy and improve the stability of the total station.

USB Flash Drive
Support data upload and download and update firmware.



Lithium-ion Battery
Working time up to 20 hours.

Touch Measurement
The touch trigger key helps mitigate the impact of jitter on the measurement.

Handy Brake Wrench
User never feels tired with the ergonomic design which fits human fingers. Lock and unlock with a gentle press on the rench.

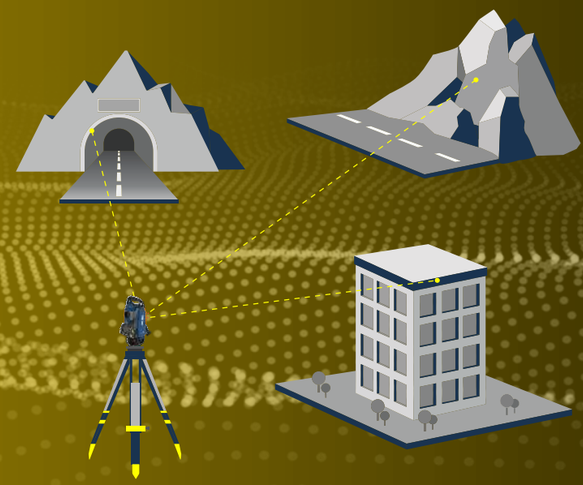
Coaxial Laser Plummet
Coaxial laser plummet makes it more convenient to track the targets.

Precise Distance Measuring Technology

Ranger M can achieve fast and accurate distance measurement through built-in eight adaptive high-frequency measuring rulers and advanced phase laser ranging algorithms, meeting the accuracy requirements of various advanced engineering measurements.

1000 M
Non-Prism Distance measurement

4000 M
Single Prism Distance Measurement



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Ease-to-use Interface

Equipped with a full-featured operation panel, 2.8-inch bright color screen, and mute buttons with comfortable spacing. Built-in commonly used measurement functions, standard Bluetooth 5.0 for convenient data transmission, and the third-party application. Ranger M is a combination of advanced hardware and software.



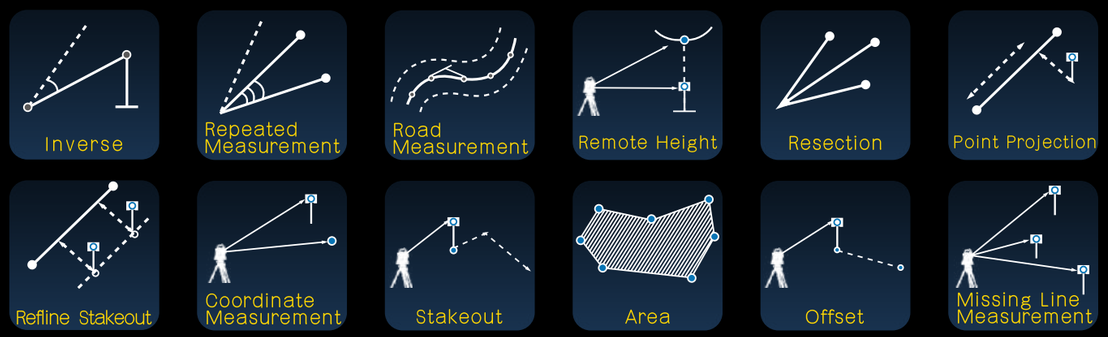
2.8-inch Color Screen
Larger screen brings more data display and good viewing experience.

Rounded backlight button
The rounded backlight button makes it easier for measurement work at night.

Customized Fn Function Key
The customized function key for a personalized total station.

One-touch Laser Fixed
One touch, rapid centring and leveling up for measurement.

On-board Measurement Software



Professional Set

Total station	X1
Battery	X2
Charger	X1
Tool bag	X1
USB flash drive	X1
RP60 reflector	X1
RP30 reflector	X1
Objective cap	X1



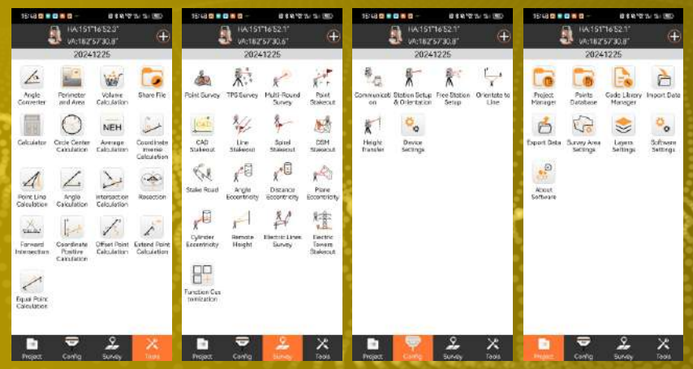
Technical Specification

Telescope	Image	Right-reading
	Magnification	30x
	Field Of View	1°30′
	Minimum Focus	1.7m
	Resolution	2.8″
Angle Measurement	Accuracy	2″
	Reading System	Absolute Encoders
	Minimum Reading	1″
Distance Measurement	Measuring	Non-Prism 1000m
		Reflector 2000m
		Single Prism 4000m
	Accuracy	Single Prism ±(2mm+2×10^{-6}×D)
		Non-Prism ±(3mm+2×10^{-6}×D)
		Reflector ±(3mm+2×10^{-6}×D)
	Time	Fine :0.7s Rapid:0.5s Tracking:0.3s
	Minimum Display	Fine/Tracking:0.1mm
Compensator	Compensator Type	Dual axis
	Compensator Range	±4′
	Compensator Resolution	1″
Laser Plummet	Accuracy	1.5mm@1.5m
	Wavelength	635nm
	Safety	Class2
	Output Power	0.7-1.0nw
Level Vial Sensitivity	Tubular Level	30″/2mm
	Circular Level	8′/2mm
Keyboard	Screen	2.8-inch colour screen
	Key	x26
	Backlight	Support
Power	Battery	Type: 2600mAh Li-ion battery
		Low voltage alert: Shut down in 10 mins
	Working Time	Angle Measuring: 25h
		Distance + Angle Measuring: 20h
Physical	Operating Temperature	-20℃ ~ +50℃
	Storage Temperature	-30℃ ~ +55℃
	Water/Dust Proof	IP54

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

Compatible with third-party APP

Ranger M supports mobile phone communication via Bluetooth with third parties APP such as DiMap Pro or Surveyor software to realize the function of intelligent total station.



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