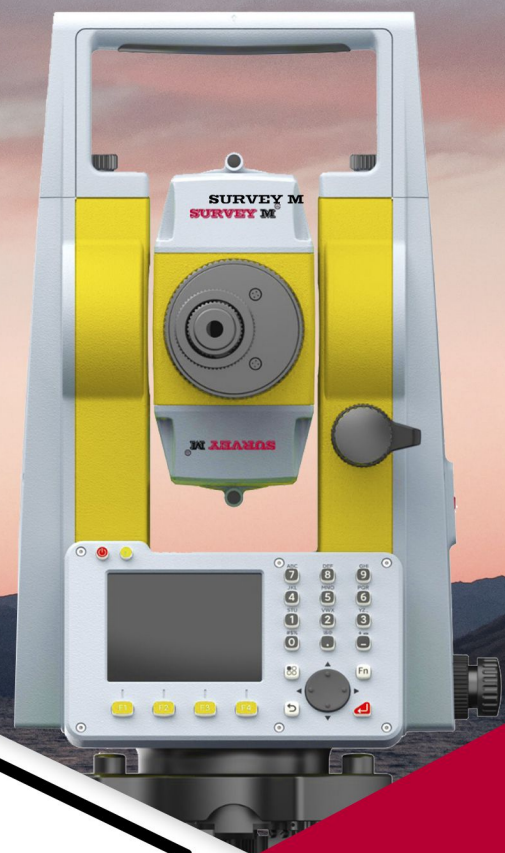


# SURVEY M<sup>®</sup>



## SM101

### HIGH PRECISION TOTAL STATION

#### USB Flash Drive

Support data upload and download and update firmware

#### BLE 5.0

Low energy enables more ways of measurement

#### Processor

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

#### Reliable Measurement

Advanced phase laser rangefinder. Eight adaptive precision measuring tape for accurate distance measurement. Up to 1000m Without Prism

#### Handy Brake Wrench

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

#### Advanced Optical System

Europe optical technology helps effectively suppress chromatic aberration and make clearer observation

#### Angle measuring technology

Absolute encoder enables angle measurement accuracy in dusty, humid and other harsh conditions. Starting up without initialization, all information will be kept after power interruption, power off or restart.

#### Lithium-ion Battery

Working time up to 20 hours

#### Touch Measurement

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

#### Coaxial Laser Plummet

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

#### Photoelectric Compensator

The brand new Photoelectricity Compensator provides compensator range up to 4', reducing the effect of centering and leveling up, and improving measurement accuracy.

SURVEY M<sup>®</sup>

# SM101

## HIGH PRECISION TOTAL STATION

### Technical Specification

Telescope	Image	Right-reading	
	Magnification	30x	
	Field Of View	1°30'	
	Minimum Focus	1.7m	
	Resolution	2.8"	
Angle Measurement	Accuracy	1.5" / 3"	
	Reading System	Absolute Encoders	
	Minimum Reading	1"	
Distance Measurement	Measuring	Non-Prism	1000m
		Reflector	2000m
		Single Prism	4000m
	Measuring Accuracy	Non-Prism	$\pm (3\text{mm} + 2 \times 10^{-6} \times D)$
		Reflector	$\pm (3\text{mm} + 2 \times 10^{-6} \times D)$
		Single Prism	$\pm (2\text{mm} + 2 \times 10^{-6} \times D)$
	Time	Fine :0.7s Rapid:0.5s Tracking:0.3s	
Compensator	Minimum Display	Fine/Tracking:0.1mm	
	Compensator Type	Dual axis	
	Compensator Range	$\pm 4'$	
	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	3.2-inch colour screen	
	Key	x26	
	Backlight	Support	
Communication	Port	USB、Bluetooth	
	Data Memory	40000 points	
Power	Battery	2600mAh Li-ion battery	
		Low voltage alert	
	Working Time	25 hours angle 20 hours angle and distance	
Physical	Operating Temperature	-20°C ~ +50°C	
	Storage Temperature	-30°C ~ +55°C	
	Water/Dust Proof	IP54	



**SURVEYING EXPERTS**

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