

# SPECIFICATIONS

## • Angle Measurement

Measurement Method	Absolute Encoding
Circle Diameter	79mm
Minimum Readout	0.1"/1"/5"/10"
Accuracy <sup>1</sup>	2"

## • Telescope

Magnification	30X
Image	Erect
Tube Length	154mm
Effective Aperture	45mm (EDM:50MM)
Field of View	1°30'
Minimum Focus Distance	1.4m
Resolving Power	3'

## • Dual-axis Compensator

Working Range	±3'
Accuracy	1"

## • Distance Measurement (Good Conditions)<sup>2</sup>

Measurement Range	Single Prism	5000m	
	Reflective Sheet	1000m	
	Reflectorless <sup>3</sup>	1000m	
Accuracy	Single Prism	2mm+2ppm	
	Reflective Sheet	2mm+2ppm	
	Reflectorless <sup>3</sup>	Fine(< 200m):	3mm+2ppm
		Fine(> 200m):	5mm+2ppm
Measuring Time	Single Prism	< 0.3s	
	Reflective Sheet	< 0.3s	
	Reflectorless <sup>3</sup>	Typ. 0.3-3s max.10s	

## • Communication

Internal Data Memory	Approx. 120000Points/SD Card(max.8G)
Serial I/F port	USB Port/Bluetooth/SD Card

## • Plummet

Laser plummet <sup>4</sup>	±1.5mm at 1.5m
Optical Plummet (Optional)	Erect Image
Magnification	3X
Focusing Range	0.5m~∞
Field of View	5°

## • Power

Battery Type	Rechargeable Lithium battery
Voltage/Capacity	7.4V(DC)/ 3100mAh
Operating Time	8 Hours <sup>5</sup>

## • Others

Hours	IP65(IEC60529 Standard)
Display	Dual side, LCD 6 Lines
Keyboard	Dual sides Alphanumeric Keyboard
Operating Temperature	-20°C~+50°C
Weight (including battery)	5.2kg
Dimensions (W*D*H)	160*150*330mm

- ◆ 1. Standard deviation based on ISO17123-3.
- ◆ 2. Good conditions: no haze, visibility about 40 km, no heat shimmer, breeze.
- ◆ 3. Reflector: White side of Kodak Gray Card with 90% reflective.
- ◆ 4. Laser plummet mounted on the bottom of the vertical axis.
- ◆ 5. Battery life specification at 25°C. It might be shorter in low temperature or if the battery is old



Five axis ranging optical path: 0.1 second fast measurement



Liquid reflex compensator: high precision range



Objective punching technology: shorter fine ruler



Precision fretting structure: 0.25mm pitch



Close bead type number axis system: 180 steel balls rolling without clearance



Integrated straight through horizontal axis: ensure vertical Angle accuracy



Four probe sampling Angle measurement: 2"Angle measurement accuracy



Rich measurement program: CAD/EXCELL can be directly exported



Multi-mode data transmission: Bluetooth /SD card/data line