

ANGLE MEASUREMENT	
Reading system	Absolute encoder
Display resolution	1" /5" /10" ; 0.0002g/0.001g/0.002g; 0.005mil/0.02mil/0.05mil
Angle Units	DEG 360°/GON 400/MIL 6400
Accuracy	2"

TELESCOPE	
Magnification/ Field of view	30X/1°30'
Tube length	156 mm
Minimum focus distance	1.0 m (3.26 ft)
Reticle	10 brightness levels adjustable
Objective aperture	φ 45 mm
Laser pointer	Red light, coaxial

TILT SENSOR	
Type	Electronic, dual-axis
Compensation range/accuracy	± 3.0°/1"

DISTANCE MEASUREMENT RANGE (GOOD CONDITION) ¹	
Standard mode/Prism	2.0 ~3000 ² Class1
Reflective sheet (60mm x 60mm)	2.0 ~800 m
Reflectorless	2.0 ~600 ⁵ m

DISTANCE MEASUREMENT ACCURACY	
Standard mode/Prism	± (2+2x10 ⁻⁶ D) mm
Reflective sheet (60mm x 60mm)	± (3+2x10 ⁻⁶ D) mm
Reflectorless	1-200m: ± (3+2x10 ⁻⁶ D)mm >200m: ± (5+3x10 ⁻⁶ D)mm

MEASUREMENT TIME	
Standard mode/Prism ⁶ (Tracking/Fast/Fine)	0.4 sec / 0.6 sec / 1.0 sec
Reflectorless	1.5 sec / 5 sec

DISTANCE MEASUREMENT	
Distance Unit	m/ft/US ft
Display Resolution (m/inch selectable)	0.0001m/0.001ft/0.001 US ft

LASER PLUMMET	
Laser type	± 1mm/1.5 m
Laser brightness	Adjustable

LEVEL VIAL SENSITIVITY	
Plate level	30 (°/2mm)
Circular level	8 (°/2mm)

ENVIRONMENTAL CONDITIONS	
Operating Temperature	-20° C ; +50° C
Storage Temperature	-40° C ; +70° C
Waterproof/Dustproof	IP55

PHYSICAL SPECIFICATION	
Weight including battery and tribrach	6.0 Kg

POWER	
Battery Voltage/Capacity	7.4V / 3400mAh Li-ion
Operating time (angle measurement)	36 hours
Operating time (distance meas. every 30 seconds)	Approx 19 hours
Battery charger	110/220V, charging time: approx.4h

OTHER SPECIFICATIONS	
Display/Keyboard	Two sides, large LCD, 240x128 dots/Alphanumeric
Memory	4Gb internal + SD card (max 16Gb)
Interface	RS-232C / USB/ SD card/Bluetooth
Sensors	Built in temperature/pressure sensors

ON BOARD FIELD APPLICATION PROGRAMS	
Data recording and management, Setting out, Resection, Intersection, Point to line, Area calculation, Offset, Road	