

## ANGLE MEASUREMENT

Accuracy <sup>1</sup>	2"
Reading system	Absolute encoder
	1" /5" /10"
Display Resolution (selectable)	0.0002g/0.001g/0.002g 0.005mil/0.02mil/0.05mil
Angle Units	DEG 360°/GON 400/MIL 6.400

## 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<sup>2</sup>

Standard mode prism	3.000 m <sup>3</sup>
Long mode prism	5.000 m <sup>4</sup>
Reflective sheet (6cm x 6cm)	800 m <sup>4</sup>
Reflectorless <sup>5</sup>	Up to 600 m <sup>4</sup>

## DISTANCE MEASUREMENT ACCURACY<sup>6</sup>

Standard mode prism	2 mm + 2 ppm
Long mode prism	2 mm + 2.5 ppm
Reflective sheet (6cm x 6cm)	3 mm + 2 ppm
Reflectorless	3 mm + 2 ppm

## MEASUREMENT TIME

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

## DISTANCE MEASUREMENT

Distance Units	m/US ft/INT ft
Display Resolution (selectable)	0.0001m/0.001m 0.001ft/0.01ft

## LASER PLUMMET

Laser type	635nm semiconductor laser
Accuracy	1mm/1.5 m
Spot	± 1.5mm/1.5 m

## 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

Dimensions	202 x 197 x 345 mm
Weight including battery and tribrach	5.5 Kg

## POWER

Battery Voltage/Capacity	7.4V/3.400mAh Li-ion
Operating time (angle measurement)	Up to 24 hours
Operating time (distance meas. every 30 sec)	Up to 12 hours
Operating time (angle + distance meas.)	Up to 10 hours
Battery charger	110/220V, charging time 4h

## OTHER SPECIFICATIONS

Display/Keyboard	Two sides, LCD 96x160 Dots/Alphanumeric
Memory	120.000 points SD card (max 16Gb)
Interface	RS-232C/mini USB/SD card/ Bluetooth
Sensor	Temperature/Pressure

## ON BOARD FIELD APPLICATION PROGRAMS

Data recording and management, Stake out, Area, Offset, Traverse, Inverse, Point projection, MLM, REM, Resection, Line stake out, Arc stake out, Polarize, Repeat measure, Road calculation