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Specifications »»

Telescope	
Length	156mm
Image	Erect
Objective aperture	Telescope:Φ45mm(meas.dist.:Φ50mm)
Magnification	30x
Field of view	1°30′
Shortest focus distance	1.0m
Angle measurement	
Reading system	Absolute encoder
Angle unit	360°/400gon/6400mil, selectable
Display resolution	1″/5″/10″(or 0.2mgon/1mgon/2mgon)
Accuracy*1	2″/ 5″
Distance measurement	
Laser class(IEC60825-1)	
Reflectorless	Class 3R
Reflective sheet/RP60	Class 3R
Prism	Class 1
Measurement range (Good condition)*2	
Reflectorless*3	
Reflectorless	1 to 1000m
Reflective sheet/RP60	1 to 1200m
Single prism	1 to 5000m
Accuracy	
Prism	2mm+2ppm
Reflective sheet/RP60	2mm+2ppm
Reflectorless	2mm+2ppm
Measuring time	
Fine mode	1.2s
Tracking mode	0.3s
Fast mode	0.7s
Display resolution(m/inch selectable)	0.2mm/1mm
Pressure input range	500hPa to 1500hPa(1hPa steps)
Temperature input range	-40°C to+60°C(1°C steps)
Prism constant correction	-99.9mm to +99.9mm
Compensator	Dual-axis
Range/Setting accuracy	±3′/1″

Level vial sensitivity	
Plate level vial	30″/2mm
Circular level vial	8′/2mm
Laser plummet(Standard)*4	
Accuracy	±1mm/1.5m
Laser class	Class 2/IEC60825-1
Laser spot brightness	Adjustable
Laser wave length	635nm
Optical plummet(Factory Optional)	
Accuracy	±0.8mm/1.5m
Image	Erect
Magnification	3x
Field of view	4°
Focus range	0.5m to ∞
Power	
Battery	3400mAh Li-ion Rechargeable
Output voltage	7.4V DC
Continuous operation time	Approx.20 hours(At +20°C)
(Single distance measurement every 30 seconds)	
Charger	FDJ6-Li (100V /240V)
Charging time(at +20°C)	Approx. 4 hours
Application programs	
Data collection/Stake out/Resection/REM/MLM	
AREA/Point to line/Z coordinate/OFFset	
Others	
Display	LCD, 6 Lines
CPU	32Bit
Memory	120000 points, support SD card(Optional)
Keyboard	Alphanumerical key board, both sides
Weight(including batteries)	5.1kg
Dimensions(WxDxH)	175x178x340mm
Operating temperature	-20°C to+50°C
Storage temperature	-40°C to +70°C
Interface	USB/RS-232C/Bluetooth(Factory Optional)
Water and dust protection	IP55

* 1 Standard deviation based on ISO17123-3
* 2 Good conditions: no haze, visibility about 40km, 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

Illustrations, descriptions and technical specifications are not binding and may change

ALPHA X

More Reliable & More Precise

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