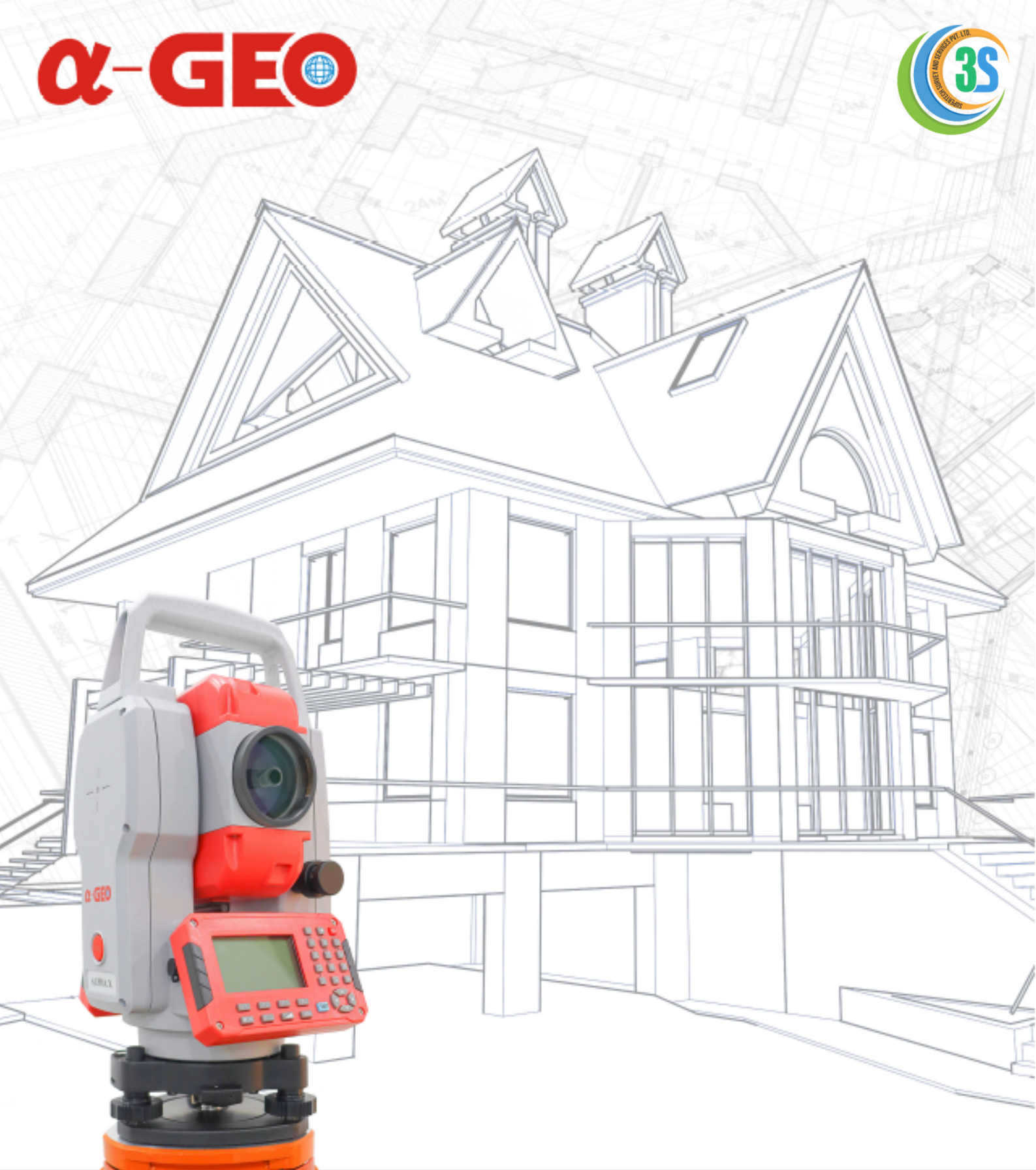


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ALPHA X

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Specifications >>>

Telescope		Level vial sensitivity	
Length	156mm	Plate level vial	30"/2mm
Image	Erect	Circular level vial	8'/2mm
Objective aperture	Telescope: Φ 45mm(meas.dist.: Φ 50mm)	Laser plummet(Standard)*⁴	
Magnification	30x	Accuracy	\pm 1mm/1.5m
Field of view	1°30'	Laser class	Class 2/IEC60825-1
Shortest focus distance	1.0m	Laser spot brightness	Adjustable
Angle measurement		Laser wave length	635nm
Reading system	Absolute encoder	Optical plummet(Factory Optional)	
Angle unit	360°/400gon/6400mil, selectable	Accuracy	\pm 0.8mm/1.5m
Display resolution	1"/5"/10"(or 0.2mgon/1mgon/2mgon)	Image	Erect
Accuracy* ¹	2"/5"	Magnification	3x
Distance measurement		Field of view	4°
Laser class(IEC60825-1)		Focus range	0.5m to ∞
Reflectorless	Class 3R	Power	
Reflective sheet/RP60	Class 3R	Battery	3400mAh Li-ion Rechargeable
Prism	Class 1	Output voltage	7.4V DC
Measurement range (Good condition)** ²		Continuous operation time	Approx. 20 hours(At +20°C)
Reflectorless* ³		(Single distance measurement every 30 seconds)	
Reflectorless	1 to 1000m	Charger	FDJ6-Li (100V /240V)
Reflective sheet/RP60	1 to 1200m	Charging time(at +20°C)	Approx. 4 hours
Single prism	1 to 5000m	Application programs	
Accuracy		Data collection/Stake out/Resection/REM/MLM	
Prism	2mm+2ppm	AREA/Point to line/Z coordinate/OFFset	
Reflective sheet/RP60	2mm+2ppm	Others	
Reflectorless	2mm+2ppm	Display	LCD, 6 Lines
Measuring time		CPU	32Bit
Fine mode	1.2s	Memory	120000 points, support SD card(Optional)
Tracking mode	0.3s	Keyboard	Alphanumerical key board, both sides
Fast mode	0.7s	Weight(including batteries)	5.1kg
Display resolution(m/inch selectable)	0.2mm/1mm	Dimensions(WxDxH)	175x178x340mm
Pressure input range	500hPa to 1500hPa(1hPa steps)	Operating temperature	-20°C to +50°C
Temperature input range	-40°C to +60°C(1°C steps)	Storage temperature	-40°C to +70°C
Prism constant correction	-99.9mm to +99.9mm	Interface	USB/RS-232C/Bluetooth(Factory Optional)
Compensator		Water and dust protection	IP55
Range/Setting accuracy	\pm 3'/1"		

* 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



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