

## Specifications

(Annexure-4)

<b>Telescope</b>		
Magnification /Resolving power		30x/2.5"
Objective aperture: 45mm (1.8in.) (50mm(2.0in.) for EDM), Image: Erect , Field of view: 1°30' (26m/1,000m) , Minimum focus: 1.3m (4.3ft.), Reticle illumination : 5 brightness levels		
<b>Angle measurement</b>		
Display resolution (selectable)		0.5"/1" (0.0001/0.0002gon,0.002/0.005mil)
Accuracy(ISO 17123-3:2001)		1"
IACS (Independent Angle Calibration System)		Must be provided
Dual-axis compensator/Collimation compensation		
<b>Distance measurement</b>		
Laser output		Reflectorless mode: Class 3R/Prism/sheet mode: Class 1
Measuring range(under average conditions)	Reflectorless	0.3 to 800m (2,620 ft) / Under good conditions : to 1,000 m (3,280 ft.)
	Reflective sheet	RS90N-K: 1.3 TO 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)
	Mini prisms	CP01:1.3 to 2,500m (8,200ft.), OR1PA: 1.3 to 500m (1,640ft.)
	One AP prism	1.3 to 5,000m (4.3 to 16,400ft)/Under good conditions: 6,000m (16,680ft.)
	Three AP prism	to 8,000m (26,240ft.)/Under good conditions: to 10,000m (32,800ft.)
Display resolution		Fine /Rapid : 0.001m/0.01ft./ 1/8in. Tracking:0.01m/0.1ft./ 1/2in.
Accuracy (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless	(2+2ppm x D)mm
	Reflective sheet	(2+2ppm x D)mm
	AP/CP prism	(1.5 +2ppm x D)mm
Measuring time		Fine: 0.9s (initial 1.5s), Rapid : 0.6s(initial 1.3s),Tracking 0.3s (initial 1.3s)
<b>Motor drive system</b>		
	Type	DC Servo motor
	Max Rotation speed	70°/sec
<b>Auto Pointing</b>		
Working range	One AP Prism	1.3 to 1,000m
	Reflective sheet	5 to 50m
	360° prism	2 to 600m
	Mini prisms	CP01: 1.3 to 700m, OR1PA 1.3 to 500m
<b>OS, Interface and Data management</b>		
Operating system /Application		Microsoft Windows CE 6.0 /MAGNET FIELD
Display / Keyboard		3.5 inch, Semi-transmissive TFT QVGA color LCD with LED backlight , Touch screen, Automatic brightness control / 26 keys with backlight

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Control panel location		On both faces
Trigger key		On right instrument support
Data storage	Internal memory	500MB internal memory
	Plug-in memory device	USB flash memory (max. 8GB).
Interface		Serial RS-232C, USB2.0 (Type A/miniB)
<b>General</b>		
Laser-pointer		Coaxial red laser using EDM beam
Guide light		Green LED (524nm) and Red LED (626nm), Operating range: 1.3 to 150m (4.3 to 490 ft.)
Levels	Graphic	6' (Inner Circle)
	Circular level	10'/2mm
Optical plummet		Magnification : 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom
Laser plummet		Red laser diode(635nm $\pm$ 10nm), Beam accuracy: $\leq$ 1.0mm@1.3m, Class 2 laser product
<b>Power supply</b>		
Battery (Detachable battery)		Li-ion rechargeable battery
Operating time (20°C)		Approx. 5hours

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