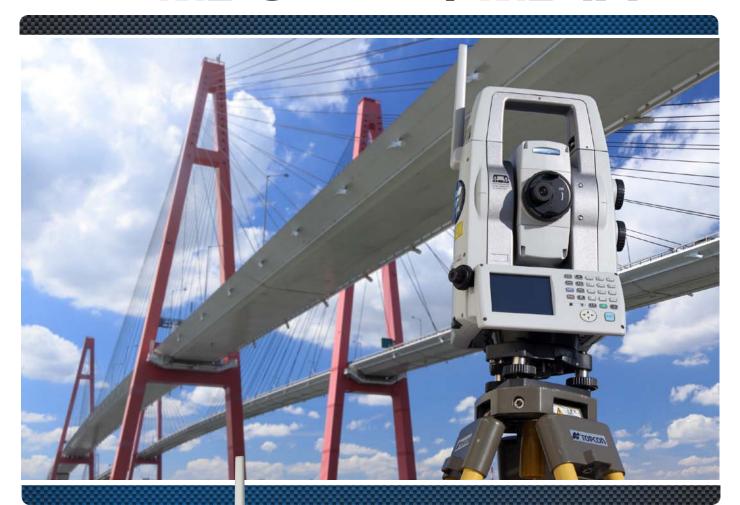




MS05AXII/MS1AXII





Measuring Accuracy and Durability are Further Refined to Provide Highly Accurate Measurement

- Ultra High-precision Distance Measurement
- Precise Angle Accuracies 0.5" (MS05AXII) / 1" (MS1AXII)
- Auto Aiming Accuracy of 1" *
- Remote Control through on-line PC
- Exclusive Reflector Prescan technology
- Enforced Durability for Long Term Deformation / Monitoring Applications
- * When measured with standard prism



^{* *}For more detail of TSshield, please refer to the TSshield's leaflet. This service may not be available in some areas.





Model		MS05AXII	MS1AXII	
Telescope		INSUSANII	INSTANT	
Magnification / Resolving power		30x / 2.5"		
	50mm (2.0 in) for EDM). Image: Frect Field of vi	ew: 1°30' (26 m/1,000 m), Minimum focus: 1.3 m (4.3	ft)	
Angle measurement	(2.0) (0. 25),	em : 30 (20 m/ 1/200 m/)/ mmmmam : 20025: 113 m (113	,	
Display resolutions (selectable)		0.5" / 1" (0.0001 / 0.0002 gon 0.002 / 0	0.5" / 1" (0.0001 / 0.0002 gon, 0.002 / 0.005 mil)	
Accuracy (ISO 17123-3:2001)		0.5"		
Dual-axis compensator / Collimation compensation			e: ±6' / Collimation compensation available	
Advanced angle encoder technology		Provided	c. 20 / Communication Compensation available	
Distance measurement		11011000		
Laser output*1		Reflectorless mode: Class 3R / Prism/sheet mode: Class 1		
Measuring range	One prism*3	1.3 to 3,500 m (4.3 to 11,480 ft.)		
(under good conditions*2)	Reflective sheet RS50N-R*4	1.3 to 200m (4.3 to 640 ft.)		
	Reflectorless*5	0.5 to 100 m (1.64 to 320 ft.)	0.5 to 400 m (1.64 to 1,310 ft.)	
Minimum display	Neirectoriess	0.00001 m / 0.0001 m	0.0001 m / 0.001 m	
		(0.0001 ft. / 0.001 ft., 1/64 in. / 1/16 in.)	· '	
Accuracy	Prism* ³	(0.8 + 1ppm x D) mm	(1 + 1ppm x D) mm	
(ISO 17123-4:2001)	Reflective sheet*4	(0.5 + 1ppm x D) mm	(1 + 1ppm x D) mm	
(D=measuring distance in mm)	Reflectorless*5	(1 + 1ppm x D) mm	(2 + 1ppm x D) mm*6	
Measuring time (Fine mode)*7	Reflectoriess	0.9s (initial 1.5s)	I (5 , 188111 V D) 111111	
Motor		0.55 (Hillar 1.55)		
Туре		DC motor drive		
Rotation speed		85°/s		
Auto-Collimating		05/3		
Working range	One prism	1.3 to 1,000 m (4.3 to 3,280 ft.)		
(under avarage conditions*8)	Reflective sheet RS50N-R*9	5 to 50m (16 to 160ft.)		
Sighting accuracy	prism	1" (1 mm @ 200 m)		
(ISO 17123-3)	Reflective sheet*9	4" (1 mm @ 50 m)		
OS, Interface and Data managem		4 (1 111111 @ 30 111)		
Operating system	ent	Widnows Embedded CE 6.0		
Display*10		3.5inch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness contr		
Keyboard*10		25 keys with backlight		
Trigger key		On right instrument support		
00 /	Internal memory	500MB (includes memory for program files)		
Data storage Calendar / clock function				
	Plug-in memory device	USB flash memory (up to 8 GB) Provided		
		Serial RS-232C, USB2.0 (Type A / miniB)		
Interface Bluetooth modem*11		Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.)*12		
General General		Bluetooth Class 1, ver.2.1+EDR, Operation	ng range: up to 600m (1,960 ft.)	
		LED (white) Plink / On coloctable		
Target searchlight		LED (white), Blink / On, selectable	Coaxial red laser using EDM beam, ON / OFF, selectable	
Laser-pointer Levels Graphic		Coaxial red laser using EDM beam, ON / OFF, selectable 6' (Inner Circle)		
FEACIS	Graphic Circular level	6 (inner circle)		
Optical plummet	Circular level	,		
Dust and water protection / Operating temperature		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F)		
Size with handle "10"		Display and keyboaed on one face: 230 (W) X 196 (D) X 393 (H) mm		
Weight with battery & tribrach*10		Display and keyboaed on both faces: 230 (W) X 207 (D) X 393 (H) mm		
		Display and keyboaed on one face: 6.8 kg (15.0 lb)		
Dawar aunulu		Display and keyboaed on both faces: 7.0	J Kg (15.4 ID)	
Power supply	DDC70	Ittimaska 10.0 o		
Battery (2006)*13	BDC70	Li-ion rechargeable battery		
Operating time (20°C)*13	BDC70	Approx.4 hours		
	External battery (option)	BT-73Q: approx.14.5 hours		

^{*}I IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11 *2 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation. *3 Face the prism to the instrument during the measurement with the distance at 10 m or less. *4 Face the reflective sheet target to the instrument. *5 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *6 Measuring range: 0.5 to 200 m *7 Fastest time under good atmospheric conditions*2, no compensation, EDM ALC at appropriate setting, slope distance. *8 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation. *9 Figures when the Auto Pointing beam strikes within 15° of the reflective sheet target. *10 Control panel and keyboard location may vary depending on region or model. *11 Usage approval of Buletooth wireless technology varies according to country. Please consulty our local office or representative in advance. *12 Paired with RC-5, with instrument height to be more than 1.5m, no obstacles (like building structures, trees or vehicles) causing interrupting/reflecting radio wave, few sources of radio emissions/interference in the near vicinity of the instrument, no rain. *13 Fine distance measurement (single) using Auto Pointing, repeated every 30 seconds

Standard package components

MS Main unit • Battery (BDC70) x 2 • Battery charger (CDC68A) • Power cable (EDC113A/113B/113C etc.) • Stylus pen • Lens hood • Tool pouch • Screwdriver • Lens brush • Adjusting pin x 2 • Vinyl cover • Wiping cloth • Quick Manual • Standard package components • Precautions for Safe Operation • USB memory (Manual) • Export restrictions card (Be sure to read) • Laser caution sign-board • Carrying case • Carrying strap



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