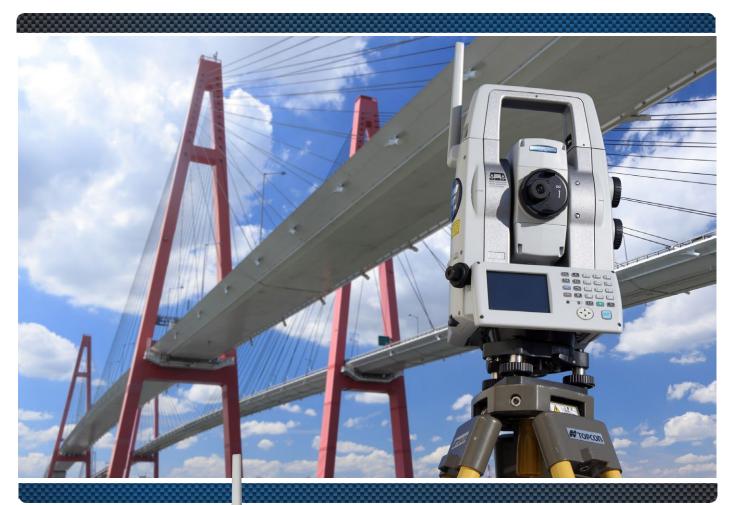




MS05AXII/MS1AXII





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





Model		MS05AXII	MS1AXII	
Telescope				
Magnification / Resolving power		30x / 2.5"		
	(50mm (2.0 in.) for EDM), Image: Erect, Field of vie	ew: 1°30' (26 m/1,000 m), Minimum focus: 1.3 m (4.3 ft.),		
Angle measurement	// // //			
Display resolutions (selectable)		0.1" / 0.5" (0.00002 / 0.0001 gon, 0.0005	0.1" / 0.5" (0.00002 / 0.0001 gon, 0.0005 / 0.002 mil)	
Accuracy (ISO 17123-3:2001)		0.5"	1"	
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range:	±6' / Collimation compensation available	
Advanced angle encoder technology		Provided		
Distance measurement		•		
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.)	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		0.00001 m / 0.0001 m	0.0001 m / 0.001 m	
		(0.0001 ft. / 0.001 ft., 1/64 in. / 1/16 in.)	0.001 ft. / 0.01 ft., 1/16 in. / 1/8 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		0.9s (initial 1.5s)		
Motor		•		
Гуре		DC motor drive		
Rotation speed		85°/s		
Auto-Collimating		•		
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 managen	nent			
Operating system		Widnows Embedded CE 6.0		
Display*10		3.5inch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automatic brightness cor		
Keyboard*10		25 keys with backlight		
Trigger key		On right instrument support		
Data storage	Internal memory	500MB (includes memory for program files)		
	Plug-in memory device	USB flash memory (up to 8 GB)		
Calendar / clock function		Provided		
Interface		Serial RS-232C, USB2.0 (Type A / miniB)		
Bluetooth modem*11	<u> </u>	Bluetooth Class 1, Ver.2.1+EDR, Operating	range: up to 600m (1,960 ft.)*12	
General				
Target searchlight		LED (white), Blink / On, selectable		
Laser-pointer		Coaxial red laser using EDM beam, ON / OFF, selectable		
Levels Graphic		6' (Inner Circle)		
	Circular level	10' / 2 mm		
Optical plummet		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom		
Dust and water protection / Operating temperature		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		
		Display and keyboaed on both faces: 230 (W) X 207 (D) X 393 (H) mm		
Weight with battery & tribrach ^{*10}		Display and keyboaed on one face: 6.8 kg (15.0 lb)		
		Display and keyboaed on both faces: 7.0 kg (15.4 lb)		
Power supply				
Battery	BDC72	Li-ion rechargeable battery		
Operating time (20°C)*13	BDC72	Approx.4 hours		
	External battery (option)	BT-73Q: approx.14.5 hours		

^{*1} IEC60825-1Ed.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 Figure 10 factor of the reflective sheet target. *10 Control panel and keyboard of location may vary depending on region or model. *11 Usage approval of Bluetooth wireless technology varies according to country. Please consult your 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 measu using Auto Pointing, repeated every 30 seconds

Standard package components

MS Main unit • Battery (BDC72) x 2 • Battery charger (CDC77) • 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 •



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