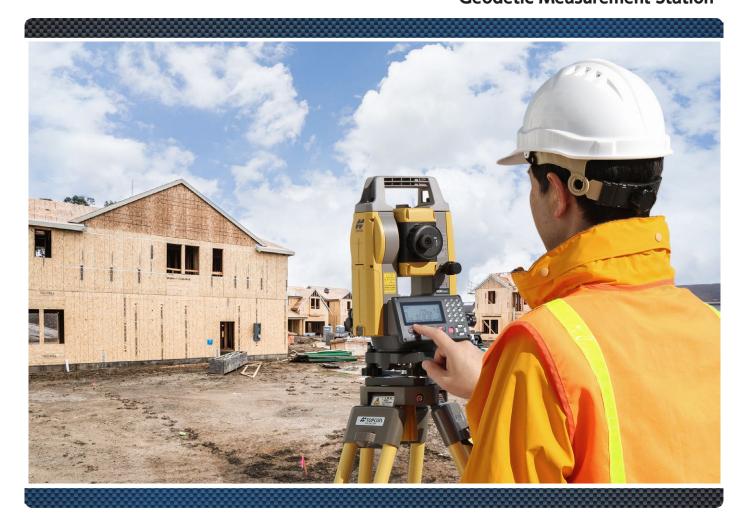


GM-52 Geodetic Measurement Station





High Quality, High Return!

- Construction and Survey Application Software
- Fast & Accurate & Powerful Measuring Distance Feature
- 500m Long Range Reflectoress Measurement
- Rugged & Waterproof Design
- Reliable Large Volume Internal Memory





Fast and Powerful Reflectorless EDM

- Fast and accurate pinpointing with phase shift technology.
- Fast distance measurement of 0.9s regardless of object.
- Minimum reflectorless measuring distance just 30cm.
- Improved collimation with super-bright pointer.
- Smaller EDM beam spot size for minimal distance measuring error.
- Dependable measuring even at shallow incidence angles.
- Ensures accurate reflective sheet distance measurement.



Japan Quality Products



We perform the tough environmental tests to ensure long-term operation even under the rough site environments.

GM Series total stations are thoroughly inspected with dust-proof and water-proof test chambers.

In addition, the various tests against vibration, drop, temperature, and humidity were successfully passed to achieve the best environmental spec. Also, the measuring distance accuracy test on base line and the instrument leveling and angle accuracy test and adjustment by collimator system ensure your satisfaction on GM Series product quality.

Standard Package Components

- Main unit Battery (BDC71)
- Battery charger (CDC77)
- Power Cable Lens cap Lens hood
- Tool pouch Precision Screwdriver
- Lens brush Hexagonal wrench ×2
- Cleaning cloth Quick Manual
- Laser caution sign-board
- Laser Caution Sign-Doard
- Carrying case
 Carrying strap

	11
SPECIFICATION	' I

		SPECIFICATIONS	
Model		GM-52	
Telescope		·	
Magnification / Resolving power		30x / 2.5"	
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm	
0 1.10.0		(1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m),	
		Minimum focus: 1.3m (4.3ft.) Reticle illumination: 5 brightness levels	
Angle measurement		Triminani rocust 1.5iii (4.5ic.) recicie munination. 5 brightness levels	
Minimum Display		1"/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)	
Accuracy (ISO 17123-3:2001)		2"	
Dual-axis compensator /		Dual-axis liquid tilt sensor, working range: ±6'	
Collimation compensation		On/Off (selectable)	
Distance measurement			
Laser output*1	iciic	Reflectorless mode : Class 3R / Prism/sheet mode : Class 1	
Measuring range	Reflectorless*3	0.3 to 500m (1,640ft.)	
(under average	Reflective sheet*4*5	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.),	
conditions*2)	Reflective Sfiect	RS50N-K: 1.3 to 300m (4.3 to 980ft.),	
conditions)		RS10N-K: 1.3 to 100m (4.3 to 320ft.)	
	Mini prism	1.3 to 500m (4.3 to 1,640ft.)	
	One prism	1.3 to 4,000m (4.3 to 13,320ft)	
Minimum Display	One prism	Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable)	
Millimum Display		Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)	
Accuracy*2	Reflectorless*3	(2 + 2ppm x D) mm*6	
(ISO 17123-4:2001)	Reflective sheet*4*5	(2 + 2ppm x D) mm	
(D=measuring distance in mm)		(1.5 + 2ppm x D) mm	
Measuring time*8	Fine	0.9s (initial 1.5s)	
Measuring time	Rapid	0.95 (IIIIIai 1.35) 0.65 (initial 1.35)	
	Tracking	0.6s (initial 1.3s)	
OC Introduction		0.45 (IIIIIdi 1.55)	
OS, Interface and I	Jata management	L. Constanting of the Constantin	
Operating system		Linux	
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight: on/off (Selectable) /	
		Alphanumeric keyboard / 28 keys with backlight	
Control panel location	Total and a second	On both faces	
Data storage	Internal memory	Approx. 50,000 points	
T-t	Plug-in memory device	USB flash memory (max. 32GB)	
Interface Serial RS-232C, USB2.0 (Type A for USB flash memory)			
General		Capyial and large using FDM happy	
Laser-pointer	Cuambia	Coaxial red laser using EDM beam	
Levels	Graphic Graphic Graphic Circular Inval (an tribus ab)	6' (Inner Circle)	
Divine in a h	Circular level (on tribrach)	10' / 2mm	
Plummet	Optical	Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom	
	Laser (option)	Red laser diode (635nm±10nm),	
Doob and make make allow	. / 0	Beam accuracy: <=1.0mm@1.3m, Class 2 laser product	
	n / Operating temperature	IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)	
Size with handle		183(W)x 181(D)x 348(H)mm	
		(On both faces)	
Instrument height		192.5mm from tribrach mounting surface	
Weight with battery & tribrach		Approx. 5.1kg (11.3lb)	
Power supply			
Battery		Li-ion rechargeable battery BDC71	
Operating time (20°C)*9		Approx. 14hours*10	
Application program			
On board		REM Measurement • 3D Coordinate Measurement	
		Resection • Stake Out • Topography Observation	
		Offset Measurement • Missing Line Measurement • Intersection	
		Surface Area Calculation • Route Surveying • Point to Line	
*1 IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 *2 Average conditions: Slight haze, visibility about 20km (12			

*1 IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation. *3 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. *4 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target. *5 Measuring range in temperatures of 50 to 60°C (122 to 140°F): RS90N-K: 1.3 to 300m (4.3 to 190ft.) *6 Measuring range:0.3 to 200m *7 Face the prism toward the instrument during the measurement with the distance at 10 m or less. *8 Good conditions: No haze, visibility about 40km (25miles), overcast, no scintillation. *9 Figures will change depensing on the operating environment including temperatures and observation conditions. *10 In use of ECO mode. Fine single measurement every 30sec.



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