

# GM-50 Series

**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



### **GM-50 Series**



#### **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 (BDC46C)
- Battery charger (CDC68A)
- Power Cable Lens cap Lens hood
- Tool pouch Precision Screwdriver
- Lens brush Hexagonal wrench ×2
- Cleaning cloth Quick Manual
- · Laser caution sign-board
- Carrying case
   Carrying strap

SPECIFI	CAHONS

		SPECIFICATIONS		
Model	-	GM-52	GM-55	
Telescope		GH-32	GH-33	
Magnification / Reso	lying nower	30×	/ 2 5"	
Others	iving power	30x / 2.5" Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm		
Others		(1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m),		
			cle illumination: 5 brightness levels	
Angle measuremen	t	1.11111111111111111111111111111111111	cie iliumination. 3 brightness levels	
Minimum Display		1"/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)		
Accuracy (ISO 17123-3:2001)		2" 5"		
Dual-axis compensator /		Dual-axis liquid tilt sensor, working range: ±6'		
Collimation compensation		On/Off (selectable)		
Distance measurement		, , , ,	,	
Laser output*1		Reflectorless mode : Class 3R	. / Prism/sheet mode : Class 1	
Measuring range	Reflectorless*3		n (1,640ft.)	
(under average	Reflective sheet*4*5	RS90N-K: 1.3 to 50	0m (4.3 to 1,640ft.),	
conditions*2)		RS50N-K: 1.3 to 30	00m (4.3 to 980ft.),	
			00m (4.3 to 320ft.)	
	Mini prism		1.3 to 1,640ft.)	
	One prism	1.3 to 4,000m (4.3 to 13,320ft)		
Minimum Display		Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable)		
		Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)		
Accuracy*2	Reflectorless*3		x D) mm <sup>*6</sup>	
(ISO 17123-4:2001)	Reflective sheet*4*5		n x D) mm	
(D=measuring distance in mm)	Prism <sup>*7</sup>	(1.5 + 2ppm x D) mm		
Measuring time*8	Fine		tial 1.5s)	
	Rapid		tial 1.3s)	
	Tracking	0.4s (ini	tial 1.3s)	
OS, Interface and Data management				
Operating system		Linux		
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight : on/off (Selectable) /		
			/ 28 keys with backlight	
Control panel location		On both faces	On single face	
Data storage	Internal memory		,000 points	
7	Plug-in memory device	USB flash memory (max. 32GB)		
Interface Serial RS-232C, USB2.0 (Type A for USB flash memory)		pe A for USB flash memory)		
General		Constal and Income		
Laser-pointer Levels	Cuambia	Coaxial red laser using EDM beam 6' (Inner Circle)		
Leveis	Graphic			
Dlummet	Circular level (on tribrach)		2mm	
Plummet Optical Magnification: 3x, Mini		Pod lacar diada	######################################	
	Laser (option)	Beam accuracy: <=1.0mm@1.3m, Class 2 laser product		
Dust and water protection / On austin a town		IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)		
Dust and water protection / Operating temperature Size with handle		192(W) × 191(D) × 249(H) mm	183(W)x 174(D)x 348(H)mm	
Size with handle				
Instrument height		(On both faces)	(On single face)	
Weight with battery & tribrach		192.5mm from tribrach mounting surface Approx. 5.1kg (11.3lb)		
Power supply		Арргох. 5.1	ing (II.JID)	
Battery		Li-ion rechargeable battery BDC46C		
Operating time (20°C)*9		Approx. 14hours*10		
		Approx. 14110u15		
Application program			Coordinate Management	
On board		REM Measurement		
		Resection • Stake Out • Topography Observation     Offcet Measurement • Missing Line Measurement • Intersection		
		Offset Measurement • Missing Line Measurement • Intersection     Surface Area Calculation • Route Surveying • Point to Line		
		<ul> <li>Surface Area Calculation • R</li> </ul>	oute 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 miles), sunny periods, weak scintillation. \*3 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 k. 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.

- Specifications may vary by region and are subject to change without notice.
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