

iM-50 Series

intelligence Measurement Station

High Quality, High Return!

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





JL.KH. Noer Ali No.8 Pekayon Jaya - Bekasi Indonesia 17148

Telp: 021 888607786 (hunting), 021 88860783, Fax:021 88860790

Email: info@mindsindosurvey.co.id, Web: http://www.mindsindosurvey.co.id

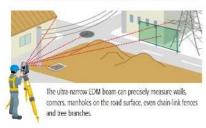
iM-50 Series

intelligence Measurement Station

SPECIFICATIONS

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.

iM 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 iM 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

Model		iM-52	8	iM-55	
Telescope			98		
Magnification / Res	solving power		30x / 2.5"		
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.)			
		(48mm (1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m)			
		Minimum focus: 1.3m (4.3	ft.) Reticle illu	mination: 5 brightness levels	
Angle measuremen	nt				
Minimum Display (1"/5" (0.0002	/ 0.001aon.	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 measurer		·	,,		
Laser output ¹		Reflectorless mode :	Class 3R / Pris	sm/sheet mode : Class 1	
Measuring range	Reflectorless*3		3 to 500m (1,6		
(under average	Reflective sheet*4*5	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.),			
conditions ²)	Kelicetive sheet	RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 300m (4.3 to 980ft.),			
•					
	Minimum	CP01: 1.3 to 2,500m (4.3 to 8,200ft.)			
	Mini prisms	************************************			
		OR1PA: 1.3 to 500m (4.3 to 1,640ft.)			
	One prism	1.3 to 4,000m (4.3 to 13,120ft.)			
Minimum Display		Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable)			
NAME OF THE PARTY		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	Prism*7	2004 J.WOWL 310000 DAYS 0000 000000			
mm)	Prism	(1.5 + 2ppm x D) mm			
Measuring time ^{*8}	Fine	0.9s (initial 1.5s)			
	Rapid	0.6s (initial 1.3s)			
	Tracking	0.4s (initial 1.3s)			
OS, Interface and			110 (
Operating system	Data management	<u> </u>	Linux		
Display / Keyboard	1	Graphic I CD 192 v 9		ght : on/off (Selectable) /	
Display / Reyboard	•			keys with backlight	
Control nanol location			eyboard / 20 i	On single face	
Control panel location	7-1	On both faces	50 000		
Data storage	Internal memory	Approx. 50,000 points			
	Plug-in memory device	USB flash memory (max. 32GB) Serial RS-232C, USB2.0 (Type A for USB flash memory)			
Interface		Serial RS-232C, USB	2.0 (Type A	for USB flash memory)	
General				N DOLLO DE SANDE MARIE DE L'A	
Laser-pointer		Coaxial red laser using EDM beam			
Levels	Graphic	6' (Inner Circle)			
	Circular level (on tribrach)	10' / 2mm			
Plummet	Optical	Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom			
	Lacon (oution)	Red laser diode (635nm±10nm),			
	Laser (option)	Beam accuracy: <=1.0mm@1.3m, Class 2 laser product			
Dust and water protection / Operating temperature				+60°C (-4 to +140°F)	
Size with handle				3(W)x 174(D)x 348(H)mm	
		(On both faces)		(On single face)	
Instrument height				nounting surface	
Weight with battery & tribrach		Approx. 5.1kg (11.3lb)			
Power supply	, w a lord and	Арр	. o. o. ing (11.010)	
		Li-ion rechargeable hatteny BDC46C			
Battery		Li-ion rechargeable battery BDC46C Approx. 14hours*10			
Operating time (20		A;	prox. 14hou	urs - *	
Application progra	m				
On board		REM Measureme	ent • 3D Coor	dinate 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 21 CFR Part 1040.10 and 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 980ft.), RS50N-K: 1.3 to 180m (4.3 to 590ft.), RS10N-K: 1.3 to 60m (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.