



Sokkia IM52 is a high-precision total station with a 1,640,000x magnification and 13,123 points of measurement. It features Bluetooth connectivity and a 14-inch LCD screen. Sokkia IM-50 is a rugged and waterproof design with a 500m long range reflectorless measurement and a reliable large volume internal memory. Sokkia IM-50 is also available in a 2.5-inch version with a 50,000-point measurement and a 14-inch LCD screen. Sokkia IM52 and Sokkia CX52 are also available.



500m	50,000
30x	2
IP66	14
2.5	183w x 181d x 348h mm
5.1kg/11.3lbs	

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 x2
- Cleaning cloth • Quick Manual
- Laser caution sign-board
- Carrying case • Carrying strap

Model	iM-52	iM-55
Telescope	30x / 2.5"	
Magnification / Resolving 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 (4.3ft.) Reticle illumination: 5 brightness levels	
Angle measurement	1°/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)	
Minimum Display (selectable)	2" / 5"	
Accuracy (ISO 17123-3:2001)	Dual-axis liquid tilt sensor, working range: ±6'	
Dual-axis compensator	On/Off (selectable)	
Collimation compensation	On/Off (selectable)	
Distance measurement	Reflectorless mode : Class 3R / Prism/sheet mode : Class 1	
Laser output ¹	0.3 to 500m (1,640ft.)	
Measuring range (under average conditions ²)	Reflectorless ³	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)
	Reflective sheet ^{4,5}	CP01: 1.3 to 2,500m (4.3 to 8,200ft.), OR1PA: 1.3 to 500m (4.3 to 1,640ft.)
	Mini prisms	1.3 to 4,000m (4.3 to 13,120ft.)
	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) Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)	
Accuracy ⁷ (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless ³	(2 + 2ppm x D) mm
	Reflective sheet ^{4,5}	(2 + 2ppm x D) mm
	Prism ⁷	(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 Data management	Linux	
Operating system	Graphic LCD, 192 x 80 dots, backlight : on/off (Selectable) / Alphanumeric keyboard / 28 keys with backlight	
Display / Keyboard	On both faces / On single face	
Control panel location	Approx. 50,000 points	
Data storage	Internal memory	USB flash memory (max. 32GB)
	Plug-in memory device	Serial RS-232C, USB2.0 (Type A for USB flash memory)
Interface	Serial RS-232C, USB2.0 (Type A for USB flash memory)	
General	Coaxial red laser using EDM beam	
Laser-pointer	6" (Inner Circle)	
Levels	Graphic	10' / 2mm
	Circular level (on tribrach)	Magnification: 3x, Minimum focus: 0.5m (19.7in.) from tribrach bottom
Plummet	Optical	Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser product
	Laser (option)	IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)
Dust and water protection / Operating temperature	183(W)x 181(D)x 348(H)mm (On both faces) / 183(W)x 174(D)x 348(H)mm (On single face)	
Size with handle	192.5mm from tribrach mounting surface	
Instrument height	Approx. 5.1kg (11.3lb)	
Weight with battery & tribrach	LI-ion rechargeable battery BDC46C	
Power supply	Approx. 14hours ¹⁰	
Battery	LI-ion rechargeable battery BDC46C	
Operating time (20°C) ¹⁰	Approx. 14hours ¹⁰	
Application program	On board	
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 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 depending on the operating environment including temperatures and observation conditions. ¹⁰ In use of ECO mode. Fine single measurement every 30sec.







COMPANY PROFILE

SHENZHEN PENG JIN TECHNOLOGY CO., LTD.



Shenzhen Peng Jin Technology Co., Ltd. is engaged in product development, production and processing in domestic and international trade & business by means of joint ventures, cooperation and partnership. The company majored in UAV, BIM(lifting robot and 3D laser scanner), pipeline detecting instruments, geological radar, Meteorological products, hydrological products, laser instruments, geodetic instruments, 4D deformation monitoring system, GPS, precision instruments, industrial measuring equipment and so on. We distribute MX GPS IC, FMD IC, SAMSUNG IC, MHCHXM SBD, VB semi MOSFETs and other electronic component. We also develop and produce 4D deformation monitoring system, geodetic instruments, plainmeter, etc... adopting the multiplex management system.

Companies adhere to the "customer first, reputation first" as the enterprise purpose, to "unity, trustworthiness, efficiency" for the enterprise spirit, loyalty and professional service principles to fulfill their responsibilities, to provide customers with perfect service.

WHY CHOOSE US?

SHENZHEN PENG JIN TECHNOLOGY CO., LTD.



TEAM

Our sales and tech-support teams interact with you to provide professional solutions.



OEM

We have our own brand "PJK" with most cost-effective and equivalent quality as major brands in the world. We also provide customization service for you.



PROFESSIONAL

We are a professional global supplier specializing in geodetic survey instruments, provide thorough services from pre-sale to after-sale for customers all over the world for 20 years.



SERVICE

Our service: fast delivery, affordable price, reliable quality and tech supporting warranty.



COOPERATION

We are diligent, professional, aggressive, and looking forward to building win-win cooperation with you.



Delivery



Payment

