SOKKIA

MADE TO FIT YOUR WORLD.

iM-60 Series

Intelligent Measurement Total Station

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Positioning made easy

The iM-60 Series offers the perfect entry-level site layout and survey instrument. The sleek and light iM-60 is made with superior Japanese quality and design, built with exceptional function and form in mind.

And like all of our products, you can customize it to meet your needs and create your own workflows.

- Integrated construction and survey application software
- Fast, accurate, and powerful EDM
- Reflectorless up to 500 m
- Prism range up to 4,000 m
- Advanced angle accuracy (2” or 5”)

Outstanding performance

Featuring the proven Sokkia EDM, the iM-60 series is fast, accurate, and powerful. In reflectorless mode, it measures up to 500 m at an incredible 2 mm + 2 ppm accuracy, and has 1.5 mm + 2 ppm accuracy when measuring up to 4,000 m to standard prisms.

Fast and powerful EDM

The iM-60 series gives you rapid and correct pinpointing with phase shift technology. The ultra-narrow EDM beam can precisely measure walls, corners, manholes on the road surface, even chain-link fences and tree branches. You get a rapid distance measurement of 0.9 seconds regardless of the object.

Easy data transfer

Powered with integrated Bluetooth® capability and an internal antenna, the sleek design enables you to deliver measurements cable-free to an optional data controller.

Rugged and waterproof

With an IP66 certification, the iM-60 series is guaranteed to protect against dust and be waterproof up to one meter. Its rugged metal chassis and heavy duty handle stand up to even the toughest job sites. Truly an all-weather solution, the iM-60 series can operate in temperatures ranging from -20ºC to 60ºC.

Ready for the field

The iM-60 series has up to 50,000 points of internal memory, and can store an additional 64 GB through the USB. And with the easy-to-use SDRbasic on-board software, you have everything you need to get the job done out in the field.

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Specifications

MODEL		iM-62	iM-65
Telescope			
Magnification / Resolving power		30x / 2.5″	
Others		Length: 171 mm (6.7 in), Objective aperture: 45 mm (1.8 in) (48 mm (1.9 in) for EDM), Image: Erect, Field of view: 1°30' (26 mm / 1000 m), Minimum focus: 1.3 m (4.3 ft.) Reticle illumination: 5 brightness levels	
Angle Measurement			
Minimum Display (selectable)		1"/5" (0.0002 / 0.001 gon, 0.005 / 0.02 mil)	
Accuracy (ISO 17123-3:2001)		2″	5″
Detecting		2 sides	1 side
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 (under average conditions[2])	Reflectorless[3]	0.3 to 500 m (1,640 ft.)	
	Reflective sheet [4/5]	RS90N-K: 1.3 to 500 m (4.3 to 1,640 ft.), RS50N-K: 1.3 to 300 m (4.3 to 980 ft.), RS10N-K: 1.3 to 100 m (4.3 to 320 ft.)	
	Mini pole prism OR1PA	1.3 to 500 m (4.3 to 1,640 ft.)	
	Compact prism CP01	1.3 to 2,500 m (4.3 to 8,200 ft.)	
	Standard prism AP01AR	1.3 to 4,000 m (4.3 to 13,120 ft.)	
Minimum Display		Fine / Rapid : 0.0001 m (0.001 ft. / 1/16 in.) / 0.001 m (0.005 ft. / 1/8 in.) (selectable) Tracking / Road : 0.001 m (0.005 ft. / 1/8 in.) / 0.01 m (0.02 ft. / 1/2 in.) (selectable)	
Accuracy[2] (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless[3]	(2 + 2ppm x D) mm[6]	
	Reflective sheet[4/5/7]	(2 + 2ppm x D) mm	
	Prism[8]	(1.5 + 2ppm x D) mm	
Measuring time[9]	Fine	0.9s (initial 1.5s)	
	Rapid	0.6s (initial 1.3s)	
	Tracking	0.4s (initial 1.3s)	
OS, Interface and Data management			
Operating system		Linux	
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight : on/off (Selectable) / Alphanumeric keyboard / 28 keys with backlight	
Operation panel		On both sides	On one side
Data storage	Internal memory	Approx. 50,000 points	
	Plug-in memory device	USB flash memory (up to 64 GB)	
Interface		Serial RS-232C, USB2.0 (Type A for USB flash memory)	
Bluetooth modem (option)[10]		Bluetooth Class 1.5, Operating range: up to 10 m[11]	
General			
Laser-pointer		Coaxial red laser using EDM beam	
Levels	Graphic	6′ (Inner Circle)	
	Circular level (on tribrach)	10′ / 2 mm	
Plummet	Optical	Magnification: 3x, Minimum focus: 0.5 m (19.7 in.) from tribrach bottom	
	Laser (option)	Red laser diode (635 nm ± 10 nm), Beam accuracy: <=1.0 mm @ 1.3 m, Class 2 laser product	
Dust and water protection / Operating temperature		IP66 (IEC 60529:2001) / -20 to +60°C (-4 to +140°F)	
Size with handle		200(W) x 181(D) x 348(H) mm (Display on both sides)	200(W) x 176(D) x 348(H) mm (Display on one side)
Instrument height		192.5mm from tribrach mounting surface	
Weight with battery & tribrach		5.3 kg (11.7 lb)	5.1 kg (11.3 lb)
Power Supply			
Battery		Li-ion rechargeable battery BDC71	
Operating time (20°C)[11]		Approx. 14 hours[13]	

[1] IEC60825-1:Ed.3.0:2014/ FDA CDRH 21CFR Part1040.10 AND1040.11 [2] Average conditions: Slight haze, visibility about 20 km (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 300 m (4.3 to 980 ft.), RS50N-K: 1.3 to 180 m (4.3 to 590 ft.), RS10N-K: 1.3 to 60 m (4.3 to 190 ft.) [6] Measuring range:0.3 to 200 m [7] Figures when the laser beam strikes within 30° of the reflective sheet RS10N-K. When using other reflective sheet targets, face them directly toward the instrument and measure in both Faces 1 and 2 (direct and reverse). [8] Face the prism toward the instrument during the measurement with the distance at 10 m or less. [9] Good conditions: No haze, visibility about 40 km (25 miles), overcast, no scintillation. [10] Usage approval of Bluetooth wireless technology varies according to country. Please consult your local office or representative in advance. [11] No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain. [12] Figures will change depending on the operating environment including temperatures and observation conditions. [13] In use of EDM eco mode.

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BELISARIO DOMINGUEZ #2002, C.P. 64060, Monterrey, Nuevo León
Tel: 52 81 1214 3755
WhatsApp: 52 81 1214 3755