

iM-60 series

intelligence Measurement Station

SPECIFICATIONS



Standard Package Components

- Main unit • Battery (BDC71)
- Battery charger (CDC77)
- Power Cable • Lens cap • Lens hood
- Tool pouch • Precision Screwdriver
- Lens brush • Hexagonal wrench
- Silicon cloth • Quick Manual
- Laser caution sign-board
- Carrying case • Carrying strap
- Export restrictions card



iM-62

Both sides panel type

iM-65

One side panel type

CoordyNavi

Minimum Smartphone Requirements

CPU	Octa-core 2.0 GHz or higher
RAM	4 GB or more
Display	720 x 1600 or higher
OS	Android 12 or later

Model	iM-62	iM-65
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		
Minimum display	1"/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)	
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 500m (1,640ft.)
	Reflective sheet ^{4,5,6}	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.)
	Mini pole prism ORIPA	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 : 0.0001m (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 (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
	External memory	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 10m ¹¹
General		
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
	Laser (option)	Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, 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) ¹²	Approx. 14hours ¹³	
Application program		
On board	<ul style="list-style-type: none"> • 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 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 500m (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 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 40km (25miles), 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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SOKKIA

iM-60 / CoordyNavi

intelligence Measurement Station / Smart Stakeout App

Boost Your Team with Powerful Tools.

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- Rodman also works with this app without additional cost



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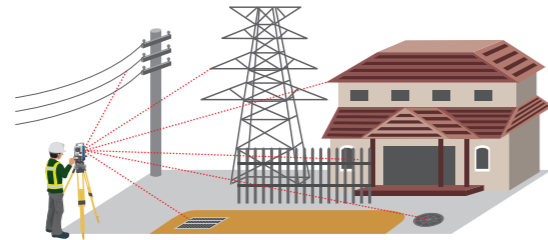


Made in Japan
Japan Quality Products



intelligence Measurement Station
iM-60 series

Japanese Quality Ensures Accurate and Reliable Surveying.



The ultra-narrow EDM beam can precisely measure walls, corners, manholes on road surfaces, even chain-link fences and tree branches.

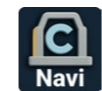


Easy, Reliable Stakeout with Your Smartphone

Same project map for Operator and Rodman – less movement, less time

Stakeout points, map and your position in one view to prevent errors

Smart Stakeout App



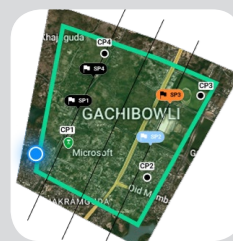
CoordyNavi



Easy to Learn. Easy to Use.

A simple interface and workflow empower anyone start quickly and be ready to work from Day One.

Digitally operate Total Station and Auto Level data directly on your smartphone. A new way of working that transforms stakeout for every surveyor.



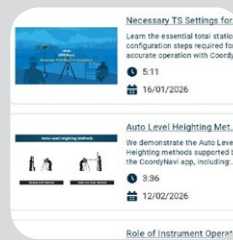
Visual Stakeout Navigation

CoordyNavi shows stakeout points and your position, for quick movement to the next point. Point color changes based on work status help reduce rework and save time on site. If a control point is lost, you can immediately set up a replacement so work can continue without delays.



Automatic Work Records—Ready as a Report!

CoordyNavi automatically records stakeout progress, results, and control points changes to create a ready-to-use report - there is NO paperwork!



Built-in Video Guidance

Built-in video guides provide clear, visual step-by-step instructions. Access them anytime to work with confidence without interrupting field operations.



Combined Total Station and Level Data—One App, One Workflow!

Enter the auto level reading to display the difference from the design height for accurate marking. By combining total station and level data in one app, automatic calculations prevent height setting and marking errors.

