GM-60 series

TOPCON

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

GM-62
Both sides panel type

GM-65
One side panel type

CoordyNavi Minimum Smartphone Requirements

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

SPECIFICATIONS

Model		GM-62	GM-65
Telescope			
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	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 Prism-5	1.3 to 500 m (4.3 to 1,640 ft.)	
	Standard prism Prism-2	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		• 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 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 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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Your local Authorized Dealer is:

GM-60/CoordyNavi

TOPCON

GM-60/ CoordyNavi

Geodetic Measurement Station / Smart Stakeout App

Boost Your Team with Powerful Tools.

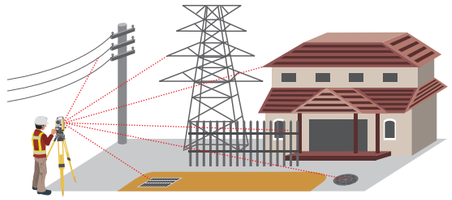
- Made-in-Japan Quality
- Fast and Powerful Reflectorless EDM
- Built-in Bluetooth®
- Accelerate Stakeout with an All-in-One App
- Easy-to-Learn. Easy-to-Operate. And Faster Results
- Rodman also works with this app without additional cost

Manual Total Station meets Smart App for Stakeout. Faster, Easier, Smarter!

Geodetic Measurement Station

GM-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.

Smart Stakeout App

CoordyNavi

GET IT ON Google Play

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

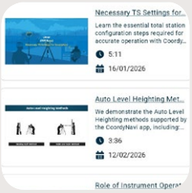
Digitally operate Total Station and Auto Level data directly on your smartphone.
A new way of working that transforms stakeout for every surveyor.

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.

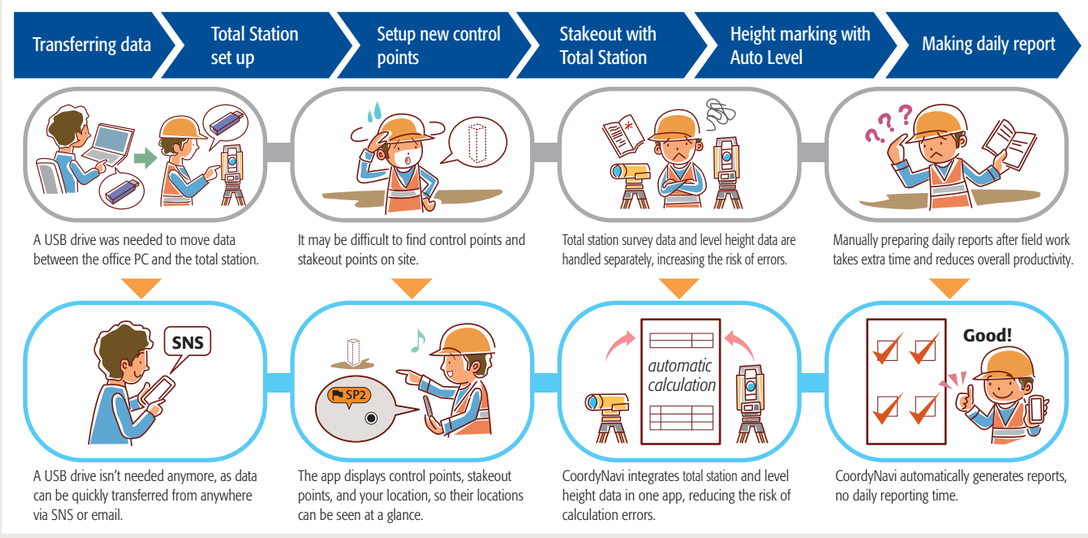
Automatic Work Records—Ready as a Report!

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.