SET60 Series SET62/SET65

SPECIFICATIONS

Model		SET62	SET65
Telescope			
Magnification		30x	
Resolving power		3.0"	
Length: 150mm, Objective	e aperture: 45mm (50mm f	for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m
Angle measurement			
Display resolutions (selectable)		1" / 5" (0.0002 / 0.001gon)	
Accuracy (ISO 17123-3:2001)		2" 5"	
Method		Absolute rotary encoder scanning	
Detecting system	Horizontal	2 sides	
	Vertical	1 side	
Compensator		Dual-axis liquid tilt sensor, working range: ±3', Correction unit: 1"	
Distance measurement		1	
Measuring range (under average conditions*1)	Mini prism	900m (3,000ft.)	
	One prism	2,000m (6,600ft.) / Under good conditions*2: 2,300m (7,500ft.)	
	Three prisms	2,700m (8,900ft.) / Under good conditions*2: 3,100m (10,200ft.)	
Accuracy (D=measuring d	racy (D=measuring distance in mm) ±(2mm + 2ppm x D)m.s.e.		,
Least count in measurement		Fine: 1mm (0.005ft.) / 0.2mm (0.001ft.), Coarse: 10mm (0.02ft.) / 1mm (0.005ft.) Tracking: 10mm (0.02ft.)	
Measurement time*3		Fine: 1mm: 1.2s (Initial 4s) / 0.2mm: 2.8s (Initial 5s), Coarse: 0.7s (Initial 3s) Tracking: 0.4s (Initial 3s)	
Interface and Data man	agement		
Display		Graphics LCD, 160 × 64dots	
Keyboard		Alphanumeric 24keys	
Control panel location O		On both faces	
Data storage	Internal memory	24,000pts.	
Interface		RS-232C	
General			
Levels	Circular level	10' / 2mm	
	Plate level	30" / 2mm	
Optical plummet telescope		Magnification: 3x, Focusing range: 0.5m to infinity, Image: Erect	
Dust and water protection (With BT-G1S)		IP54 (IEC 60529)	
Operating temperature		-20 to +50°C (-4 to 122°F)	
Size / Instrument height		W184 x D172 x H336mm (W7.2 x D6.8 x H13.2in.) / 176mm (6.93in.) from the tribrach dish	
Weight	Instrument with battery	4.9kg (10.8lbs)	
	Plastic carrying case	3.4kg (7.5lbs), Weight of the carrying case may be slightly different due to specific market.	
Power supply			
Battery (BT-G1S)	Operating time (Fine mode) Approx. 27 hours (Single distance measurement every 30 seconds at +20°C / +68		ment every 30 seconds at +20°C / +68°F*4)
		Approx. 9 hours (Continuous distance measurement at +20°C / +68°F)	

1.8 hours (+10 to +40°C)

- *1 Average conditions: Slight haze with visibility about 20km (12.5 miles) moderate sunlight with light heat shimmer.
- *2 Good conditions: No haze with visibility about 40km (25 miles), overcast with no heat shimmer

Recharging time

- ${
 m *3}$ The initial time will be different by a condition and setting EDM off time.
- *4 On the condition EDM off time is set at 0 minutes.

Standard Accessories

Battery charger

lacktriangle Main unit x 1 lacktriangle Battery(BT-G1S) x 1 lacktriangle Battery charger x 1 lacktriangle Lens cap x 1 lacktriangle Tool kit with case x 1 lacktriangle Plastic rain cover x 1 lacktriangle Silicon cloth x 1 lacktriangle Carrying casex 1



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Specifications subject to change without notice

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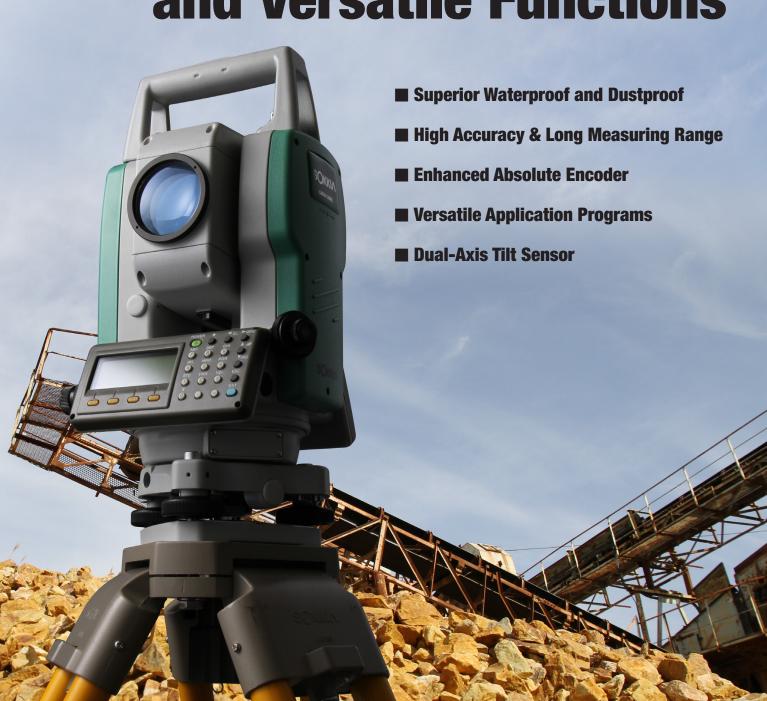
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 Product colors in this brochure may vary slightly from those of the.
 Your local Authorized Dealer is:

SOKKIA

SET60 Series

Total Station

Outstanding Performance and Versatile Functions



Outstanding Performance and Versatile Functions



■Extra-large memory capacity for 24,000 points

SET60 Series store the measured data up to 24,000 points.



■Superior Waterproof and Dustproof

SET60 series conform to IEC Standard IP54. No worry about sudden bad weather.



The International Electrotechnical Commission standard IEC 60529 describes a system for classifying degrees of protection provided by enclosures of electrical equipment. The IP Code consists of the letters IP and two numerals. Larger numbers represent greater levels of protection.

■High Accuracy & Long Measuring Range

- High accuracy: ±(2mm + 2ppm x D) m.s.e.
- Long distance: 2,000m with a Single Prism.

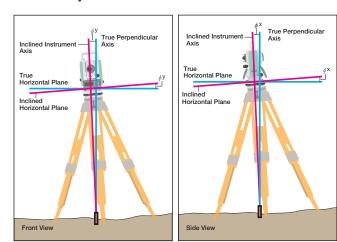


■Enhanced Absolute Encoder

SET60 Series adopted an absolute encoder system, which doesn't require 0 set and realizes stable measurement with less reading error.

■Dual-axis tilt sensor

The dual-axis tilt sensor monitors inclination of both X and Y axes, and correct horizontal and vertical angle readings automatically.

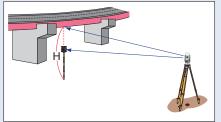


Versatile Application Functions

On-board data collection, Survey, Layout, Road Calculation, and many more functions.

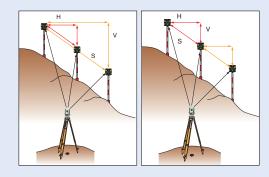
• Remote Elevation Measurement (R.E.M.)

To easily determine the height of a point where a prism cannot be placed. Take a distance to a prism placed either directly above or directly below the target point, then sight to the target point.



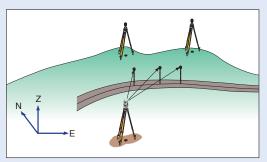
• Missing Line Measurement (M.L.M.)

To measure horizontal distance, slope distance and height difference between two prisms.



Layout

Layout function for coordinate measurement and control stakeout and resection measurements.



Road

Road function automatically calculates parameters of a complicated spiral curve and a long distance route simply by defining the start point, end point and curve elements.

