

OUTSTANDING PERFORMANCE and Versatile Functions

SURWAY SET₁₀₂

SURWAY SET 102 Manual Total Station

- Superior Waterproof and Dustproof
- High Accuracy & long Measurement Range
- Single-Axis Tile Sensor

Angle Measurement

Accuracy	2" (0.6mgon)
Measuring Mode	Absolute Reading
Detecting System	Horizontal Angle : 2-sided; Vertical Angle : 1-sided
Minimum Reading	1" (0.2mgon) or 5" (1mgon)
Measurement Time	< 0.3 sec.
Diameter of Circles (Hz and V)	71mm

Tile Correcting (Automatic Index)

Tilting Sensor	Liquid-type, automatic Vertical Compensator
Correction Range	+ 3'
Correction Unit	1" (0.1 mgon)

Telescope

Magnification	30x
Image	Erect
Object Aperture	45mm (EDM:50mm)
Tube Length	150mm
Field of View	1" 30'
Resolution Power	3.0"
Shortest Focusing Distance	1.3m
Reticule Illumination	Provided

Distance Measurement (Under good weather conditions)

Measuring accuracy	w/o prism	$\pm(5\text{mm} + 3\text{ppm} \times D)$
	w.Retro Sheet	$\pm(2\text{mm} + 2\text{ppm} \times D)$
	w.Single Prism	$\pm(2\text{mm} + 2\text{ppm} \times D)$
Measuring Range	w/o prism	600 m.
	w.Retro Sheet	600 m.
	w.Single Prism	2500 m. (w.10-20km visibility) 500m (w.20-40km visibility)
Measuring Least Count	Fine mode	1 mm
	Coarse Mode	10 mm
	Tracking Mode	10 mm
Measuring Time	Fine mode	1.2 sec. (initial 4sec)
	Coarse Mode	0.7 sec. (initial 3sec)
	Tracking Mode	0.4 sec. (initial 3sec)

General

Dust and water protection	IP54
Battery operating time (fine mode)	Approx 9 hours



Standard Accessories

- Main unit x 1 ● Battery x 1 ● Battery charger x 1 ● Lens cap x 1 ● Tool kit with case x 1
- Carrying case x 1



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