





A New Epic to a Legacy of Breakthrough Technology

Far from home, in the most demanding worksites, you need to rely on toughness and accuracy to pull you through. In the middle of the desert, deep in the heart of the jungle, or on a windswept mountain top, new discoveries are made and new trails are blazed. This is what surveying is all about.

Nobody knows this like SOKKIA, which is why we made the SOKKIA CLASSIC SET X total station, a rugged partner in a journey into undiscovered territory.







RED-tech EX - Superior Distance Accuracy in any Situation

RED-tech reflectorless EDMs are acclaimed for highprecision pinpoint accuracy and the flexibility to measure from distances as close as 30cm (1ft.). SET X features RED-tech EX, the latest in SOKKIA's innovative reflectorless measurement technology. RED-tech EX is the result of evolving RED-tech technology, and the reflectorless measurement range has been further extended to 500m (1,640ft.) while maintaining the same high level of accuracy. Of course, the ability to measure from 30cm (1ft.) remains unchanged.



This high precision measurement technology has more intelligent signal processing, offering distance measurement with greater stability and fewer constraints. RED-tech EX performs fast, highly accurate measurement of building corners, through fences, and to prisms and reflective sheets.

Single Optimized Beam

RED-tech EX uses only one visible red laser beam for measuring and pointing, allowing you to visually confirm the exact measurement point.

Enhanced Encoder

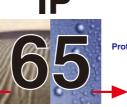


SET X features SOKKIA's original absolute encoders based on SOKKIA's digital level RAB (RAndom Bi-directional) Code technology. Highly stable, dependable encoders have been further refined making superior high accuracy angle measurement possible. SET1X and SET2X feature groundbreaking IACS (Independent Angle Calibration System) technology for extremely reliable angle measurement.

IP65 Environmental Protection

SET X offers the highest in environmental protection for Windows CE total stations. SET X has an IP65 rating, meaning it is able to withstand the harshest conditions in the most demanding jobsites. SET X maintains its IP65 rating even with the external battery connected.

Protection against ingress of solid foreign objects Highest level: 6 7 levels: 0 to 6. X: unspecified.



Protection against ingress of water Highest level: 8 9 levels: 0 to 8. X: unspecified.

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.

User-friendly Design

Ergonomic Handle

SET X features a redesigned ergonomic handle and new attachment mechanism. The handle facilitates a tight grip

for use in severe conditions. The handle can be easily and quickly removed for vertical and near vertical measurements and securely reattached in a flash.





Bluetooth[®] Wireless Technology



😵 Bluetooth°

SET X features Class 1 *Bluetooth* wireless technology for license-free long range data communication. Enjoy a wireless connection with your data collector or tablet PC for expanded data collection possibilities and seamless data handling.

Guide Light Unit

SET X comes standard with a guide light unit to assist in setting out measurements. The guide light unit consists of two different color LED's emitted from a single aperture and can be easily determined at both long and short ranges. A special flashing pattern is also included to assist users with color weakness.



Color Display/Illuminated Keyboard

SET X has a color LCD touch screen display. The display has high angle visibility and subtle contrast for maximum visibility even in direct sunlight. The full alphanumeric keyboard has concave keys that can be easily pressed by hand or with the stylus and is illuminated to let you see what you are doing under any environmental condition.

An additional control panel on face 2 is available as an option.





Trigger Key

SET X features an ergonomically placed trigger key that greatly facilitates taking measurement while looking through the telescope and even while turning the fine motion screws. Measurement can be taken at any time with just the push of a button.



Rechargeable Li-ion Battery

SET X offers a flexible power system to support long hours in the field. SET X comes standard with 2 BDC58 rechargeable Li-ion batteries. Each standard accessory battery provides 12 hours of operational time for a total of 24 hours of battery life. The optionally available BDC61 external battery offers an astounding 35 hours of operation. The combination of the two provides enough power to work for a week without having to stop and recharge. SET X has no problem measuring long hours on remote jobsites.



Multiple Data Interfaces

Multiple data interfaces provide seamless data handling and transmission

CompactFlash Card Slot

USB Type A Port

USB Type miniB Port



CompactFlash Card Slot

Support for Type II cards up to 1GB. SD cards can be used with an adapter.

USB Port

1GB FAT32 USB format is supported. A USB card reader can be used to further broaden useable media possibilities.

SFX

SET X includes SOKKIA's original SFX technology for convenient data transfer to anywhere in the world using an internet-capable mobile phone.



Waterproof Multi Port

Data transmission and external power connection are available in a single waterproof port. The port boasts an environmental rating of IP65 with data and battery cables connected.



Standard Accessories

BDC58 rechargeable Li-ion batteries (2 pcs.) • CDC68 charger with EDC113A/113B/113C AC power cable • SB178 battery adapter for BDC46B batteries • Stylus (2 pcs.) • CP9 tubular compass • Lens hood • Lens cap • Plumb bob • Tool kit • Wiping cloth • Vinyl cover • Operator's manual • Carrying case • Shoulder strap • Laser caution sign board

Optional Accessories

For more information, please consult your local sales representative.

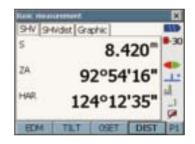
SDR Onboard Software adds a New Dimensi

SDR Program

Built on knowledge from surveyors and previous generations of SDR electronic fieldbooks, the SET X SDR program is Windows CE-based data collection software that increases functionality by providing powerful surveying programs with an easy-to-follow workflow, customizable settings and a graphic interface. SDR program offers a full range of job file handling capacity, customizable feature code lists with point-sorting capabilities and the ability to export data to industry standard formats.

Status Bar

The status bar constantly displays the status of the instrument. Select and configure instrument settings at any time with just a touch of your finger or using the stylus. Battery life, target type, measurement mode and tilt are just a few of the many options that can be seen at a glance.



• Surface Area Calculation

BASIC

In Basic mode, SET X has the functionality to take basic measurements.

- Coordinate Measurement
- Setting Out
- Offset Measurement
- Stn 7990 Number of sets - 34 Collect more sets Review existing sets

Tolerances

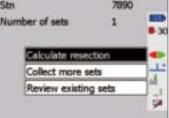
0-00'30.0"

0-00'30.0"

5

3

- Remote Elevation Measurement
- Missing Line Measurement
- Resection



Resection

Resection uses least squares adjustment techniques to determine the coordinates of an unknown point.

FUNC

Tol H.obs

Tol V.obs

Edm tol (mm)

Edm tol (ppm)

The Functions menu option is used to set up and start a survey job and controls SDR program settings.



Tolerances

Specify the required tolerances. SET X checks observations for consistency and notifies you of measurements that exceed the set tolerances.

on to Traditional Wisdom

SURV

The Survey menu provides the programs frequently used in the field for data collection.

- Topography
- Traverse Adjustment
- Resection
- Set Collection
- Set Review

- Building Face Survey
- Collimation
- Remote Elevation
- Keyboard Input

Traverse Adjustment

Traverse adjustment allows you to specify a sequence of stations through which a traverse can be calculated and adjusted. Observations do not need to be in order of the traverse route.

Trave	rse precision	
Δ.Ang	0-00'01.0"	
∆Dist	0.120	-
Precision	825059	-
∆North	0.100	÷
∆ East	0.020	1
∆ Elev	0.000	9
Adjust	Store Option	

COGO performs coordinate geometry calculations and setting out field work, dramatically increasing productivity for construction and civil engineering applications.

- Set Out Coords
- Set Out Line
- Set Out Arc
- Resection
- Inverse
- Areas

- Intersections
- Point Projection
- Taping from Baseline
- Transformation
- Keyboard Input

Set Out Arc

Set Out Arc provides an arc calculator to define curves from almost any combination of parameters. Points along the arc can be coordinated and directly set out.

D	efine arc	-
Direction	Left	. · · · ·
From	1000	0 0
To pt	100	
Center	1003	2 +
Radius	13.074	-
Angle	44*58'17"	- 9

ROAD

Roading is a comprehensive solution that provides powerful programs for road construction.

- Select Road
- Set Out Road
- Set Out Road Surface
- Road Topo
- Cross-Section Survey
- Define Road
- Review Road
- Define Template
- Review Template

Road Topo

Perform a topographical survey relative to a defined road.

Cd	Road	1 march
Pt	1015	-
Staing	0+000.14	4 30
Offset	-0.144	-
N	0.204	
E	0.000	14
EÌ	-0.109	9

Total Stations SET1X · SET2X · SET3X · SET5X

SPECIFICATIONS

Model Telescope		SET1X SET2X SET3X SET5X Fully transiting, coaxial sighting and distance measuring optics
101000000		Length: 173mm (6.8in.), Objective aperture: 45mm (1.8in.) (EDM 48mm (1.9in.)), Magnification: 30x, Resolving power: 2.5",
		Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle glass: ∞ mark printed,
		Reticle illumination: 5 brightness levels
Angle measurement		Absolute encoder scanning. Both circles adopt diametrical detection.
Unit		Degree / Gon / Mil, selectable
Display resolutions (selectable))	0.5" / 1", 0.1 / 0.2mg, 0.002 / 0.005mil 1" / 5", 0.2 / 1mg, 0.005 / 0.02mil
Accuracy (ISO 17123-3)		1" / 0.3mg / 0.005mil 2" / 0.6mg / 0.01mil 3" / 1mg / 0.015mil 5" / 1.5mg / 0.025mil
IACS (Independent Angle Calib	ration System)	Provided n/a
Measurement mode	· · · · · · · · · · · · · · · · · · ·	H: Clockwise / Counterclockwise, selectable. V: Zenith 0 / Horizontal 0 / Horizontal 0±90° / Slope in %, selectable
Automatic dual-axis compensa	tor	Dual-axis liquid tilt sensor, Working range: ±4' (±74 mg)
Collimation compensation		Yes / No, selectable
Fine motion screws		Fine / Coarse 2-speed motion
Distance measurement		Modulated laser, phase comparison method with red laser diode.
Laser output		Reflectorless mode: Class 3R (max. 5W), Prism/Sheet mode: Class 1 equivalent (max. 0.22W)
Unit		Meters / feet / US feet, selectable
Measuring range	Reflectorless*1	0.3 to 500m (1 to 1,640ft.) (White side, 90% reflective)
(slope distance)	(using Kodak Gray Card)	0.3 to 250m (1 to 820ft.) (Gray side, 18% reflective)
	With reflective sheet target*2	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.)
	With mini prisms	Under average conditions*3: w/ CP01: 1.3 to 2,500m (4.3 to 8,200ft.), w/OR1PA: 1.3 to 500m (4.3 to 1,640ft.)
	With 1 AP prism	Under average conditions*3: 1.3 to 5,000m (4.3 to 16,400ft.), Under good conditions*4: 1.3 to 6,000m (4.3 to 19,680ft.)
	With 3 AP prisms	Under average conditions*3: to 8,000m (to 26,240ft.), Under good conditions*4: to 10,000m (to 32,800ft.)
Display resolutions	Fine mode	0.0001 / 0.001m (0.001 / 0.01ft.) 0.001m (0.01ft.)
A	Rapid single / Tracking	Rapid single: 0.001m (0.01ft.) / Tracking: 0.01m (0.1ft.)
Accuracy	Reflectorless*1/*5	0.3 to 200m (1 to 650ft.): (3 + 2ppm x D)mm
(D=measuring	(Fine mode)	Over 200 to 350m (over 650 to 1,140ft.): (5 + 10ppm x D)mm
distance, unit:mm)		Over 350 to 500m (over 1,140 to 1,640ft.): (10 + 10ppm x D)mm
	Reflectorless*1/*5	0.3 to 200m (1 to 650ft.): (6 + 2ppm x D)mm
	(Rapid mode)	Over 200 to 350m (over 650 to 1,140ft.): (8 + 10ppm x D)mm
		Over 350 to 500m (over 1,140 to 1,640ft.): (15 + 10ppm x D)mm
	With reflective sheet target*2	Fine: (3+2ppm x D)mm, Rapid: (6+2ppm x D)mm
	With prism Fine mode	(2+2ppm x D)mm
	With CPS12 precision prism system	(1.5+2ppm x D)mm n/a
	With prism Rapid mode	(5+2ppm x D)mm
Measuring time	Fine mode / Rapid / Tracking	0.9s (initial1.5s), 0.6s (initial 1.3s), 0.4s (initial 1.3s)
Measuring mode		Fine (single, repeat, average), Rapid (single, repeat), Tracking
Atmospheric correction, Prism		Temperature, Pressure, Humidity, ppm input available / -99 to +99mm (1mm steps). 0 fixed in reflectorless mode.
Refraction & earth-curvature co	orrection	Yes (K=0.14 / 0.20) / No, selectable
OS, data storage and transfer		
Operating system / Application		Microsoft Windows CE / SDR Data Collection Software
Data storage	Internal memory	64MB (More than 1MB available for data)
	Memory card drive	Support up to 1GB, CF Type II (Ver. 3.3), SD card is available with CF type adapter
Interface		Asynchronous serial RS232C compatible, Baud rate 1,200 to 38,400bps,
		USB1.1 Type A and Type miniB,
		Bluetooth (Class 1, ver. 1.2)
SFX wireless data transfer		Provided
		3.5in. Transreflective TFT QVGA color LCD on single face (Face 1) with backlight (Bright / Dim selectable),
Display		324x240 dots (active area: 72.5mm x 49.5mm), touch screen
Display Keyboard		324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight
Display Keyboard Laser-pointer function		324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light)
Display Keyboard Laser-pointer function Guide Light		324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product
Display Keyboard Laser-pointer function Guide Light	Plate level	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels	Circular / Graphic	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet		324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach	Circular / Graphic Magnification	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach	Circular / Graphic Magnification	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op	Circular / Graphic Magnification erating temperature	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable
Display Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with h	Circular / Graphic Magnification erating temperature andle and battery	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F)
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with h Weight with handle and battery	Circular / Graphic Magnification erating temperature andle and battery	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.)
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with hi Weight with handle and battery Power supply	Circular / Graphic Magnification erating temperature andle and battery	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.)
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with hi Weight with handle and battery Power supply	Circular / Graphic Magnification erating temperature andle and battery	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.) 7.2V DC Li-ion rechargeable battery (4.3Ah, 2pcs. included standard)
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with hi Weight with handle and battery Power supply	Circular / Graphic Magnification erating temperature andle and battery 7 BDC58 (standard)	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.) 7.2V DC
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with h: Weight with handle and battery Power supply Battery	Circular / Graphic Magnification erating temperature andle and battery / BDC58 (standard) BDC468 (optional) External batteries (optional)	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50'C (-4 to +122'F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.) 7.2V DC Li-ion rechargeable battery (4.3Ah, 2pcs. included standard) Li-ion rechargeable battery (2.4SAh) (Use with the SB178 adapter included as a standard accessory) Ni-MH rechargeable battery, 8DC60 (6.5Ah), BDC61 (13Ah)
Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with hi Weight with handle and battery Power supply Battery Continuous use at 20°C (68°F)	Circular / Graphic Magnification erating temperature andle and battery / BDC58 (standard) BDC46B (optional) External batteries (optional) BDC58	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable Conforms to IP65 (IEC 60529) / -20 to +50°C (-4 to +122°F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.) 7.2V DC Li-ion rechargeable battery (2.45Ah) (Use with the SB178 adapter included as a standard accessory) Ni-MH rechargeable battery, BDC60 (6.5Ah), BDC61 (13Ah) Approx. 12 hours
General Display Keyboard Laser-pointer function Guide Light Sensitivity of levels Optical plummet Tribrach Dust and water protection / Op Instrument height / Size with h Weight with handle and battery Power supply Battery Continuous use at 20°C (68°F) (single measurement every 30 seconds)	Circular / Graphic Magnification erating temperature andle and battery / BDC58 (standard) BDC468 (optional) External batteries (optional)	324x240 dots (active area: 72.5mm x 49.5mm), touch screen Alphanumeric, 32 keys with backlight ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light) Two color LEDs, single aperture, Class 1 LED Product 20' / 2mm 30' / 2mm Circular level: 10' /2mm / Graphic LCD level: 4' / outer circle 5.5x 3x Detachable 3x Detachable 055 (IEC 60529) / -20 to +50'C (-4 to +122'F) 236mm (9.3in.) from tribrach bottom / W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) Approx. 7.0kg (15.4lb.), With optional F2 control panel: approx. 7.1kg (15.7lb.) 7.2V DC Li-ion rechargeable battery (4.3Ah, 2pcs. included standard) Li-ion rechargeable battery (2.45Ah) (Use with the SB178 adapter included as a standard accessory) Ni-MH rechargeable battery, 8DC60 (6.5Ah), BDC61 (13Ah)

Laser Class 3R conforms to: IEC 60825-1 Amd.2: 2001 / FDA CDRH 21 CFR Part1040.10 and 1040.11

*1 Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions.

*2 When the beam's angle of incidence is within ±30° up and down / right and left in relation to the surface of the target.
*3 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.

*4 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation. *5 With Kodak Gray Card White Side (90% reflective).



SOKKIA PTV. LTD. Head Office Australia, Nav Zealand and South Pacific Phone 41-29632-2000 www.sokkia.com.au SOKKIA B.V. Head Office Europe & other CIS countries Phone+31-(0)36-5496000 www.sokkia.net SOKKIA KOREA CO., LTD. Head Office Republic of Korea Phone+82-2514-0491 www.sokkia.co.kr

SOKKIA SINGAPORE PTE. ITD. Head Office South 85 southeast Asia, Middle East, and Africa Phone +65-6479-3966 www.sokkia.com.sg SOKKIA SURVEYING INSTRUMENTS TRADING (SHANGHAI) CO., LTD. Shanghai Office, People's Republic of China Phone +86-21-63541844 www.sokkia.com.cn

SOKKIA SURVEYING INSTRUMENTS TRADING (SHANGHAI) CO., LTD. Beijing Office People's Republic of China Phone +86-10-65056066 www.sokkia.com.cn

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