

PRODUCT CATALOG

VOLUME 5A



SOKKIA

Sokkia Corporation

Sokkia Corporation is the United States subsidiary of Sokkia Co., Ltd., Tokyo, a world-leading manufacturer of precision measuring systems. Sokkia's diverse product line provides complete measurement solutions for surveying, mapping and GIS, industrial measurement and construction applications. Sokkia products have been used to complete major projects worldwide; from the "Big Dig" in Boston, Mass. to the New Bangkok International Airport in Thailand.

Sokkia markets Total Stations, Data Collectors, Digital Levels, Lasers and a full complement of field accessories through a nationwide distribution network.

Sokkia backs its products with the industry's most complete service and support capabilities, including regionally-located sales managers, technical support, online help, product training and a factory-trained repair staff and service facility.

Sokkia Credit Corporation

Sokkia Credit Corporation was established in 1996 as a captive finance company for Sokkia Corporation. Since that time, Sokkia Credit has developed many finance programs that support the sales of Sokkia equipment, including total stations, data collectors, GPS systems, levels and theodolites.

With its experience in the industry and commitment to provide personalized attention, Sokkia Credit makes it easy to conduct business with. Sokkia Credit's competitive rates, terms and finance options provide authorized Sokkia distributors and their end users with a great value-added service.

For more about Sokkia Credit, please call 800-956-1501 or visit www.sokkiacredit.com today.

Certain products in this catalog may not be available in specific market areas. Please consult with your nearest Sokkia dealer for further details.

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Total Stations



Series 110M Motorized Auto-Pointing Total Stations

SET3110M • SET4110M

With the Series 110M, once the telescope has been roughly pointed at the prism, all you need to do next is simply press the measurement key. Looking into the telescope is not necessary.

- Auto pointing function with a single AP01 prism works from 2m to 800m (6.5ft. to 2,600ft.).
- Measuring in low light conditions is no longer a problem.
- The guide light is incorporated as standard to facilitate setting out tasks.
- The internal memory allows storage of approximately 20,000 points of data.

**You can buy the 3110M or 4110M and add the 3ASd Remote Data Radio Kit to run it remotely.*

640053 SET3110M 3"

640054 SET4110M 5"

Both supplied with: 2 ea. BDC45 Battery, CDC56 Quick Charger, Sunshade, Lens Cap, Plumb Bob, Vinyl Cover, Tool Kit, Operator's Manual, Carrying Case

Accessories:

646045 BDC45 NiMH Battery

646056 CDC56 Quick Charger
120VAC

		SET3110M	SET4110M
Telescope	Magnification	30x	
Angle Measurement	Display Resolution (selectable)	H & V	1"/5", 0.2mgon/1mgon, 0.0005mil/0.02mil
	Accuracy (ISO 12857-2 1997)	H & V	3" (1mgon) 5" (1.5mgon)
	Compensator	Automatic dual-axis compensator $\pm 3^\circ$	
Distance Measurement		Modulated near infrared light (IEC Class 1 LED)	
	Maximum Measuring Range	One AP01 Prism: 1,600m (5,200ft.), Reflective Sheet RS90N-K: 80m (260ft.)	
	Accuracy (ISO 12857-2 1997)	Glass Prism: $\pm(2 + 2\text{ppm} \times D)\text{mm}$, Reflective Sheet: $\pm(4 + 2\text{ppm} \times D)\text{mm}$	
Motor Drive		DC motor drive with self-locking free rotation system	
	Auto Pointing Distance Range	2m to 800m (6.5ft. to 2,600ft.) with AP01 prism	
	Auto Pointing Accuracy	Better than 2.5mm (0.1 in.) up to 100m (330ft.), Better than 5" (1.5mgon) over 100m (330ft.)	
Data Storage		Approx. 20,000 points in internal memory	
General	Display	Alphanumeric/graphic, on single face	
	Weight w/ handle and battery	7.1kg (15.7 lb.)	

Remotocatcher - Remote Control System for Auto-Pointing Total Stations Series 110MC

SET3110MC • SET4110MC

Reliable Remote Target Acquisition!

The Remotocatcher system by Sokkia offers complete single-operator capability in the field. Operation is simple: Connection of the RC-PR1 and a radio system to the data collector and adding a radio to the instrument allows for complete control of the instrument from the prism pole. All functions can be controlled from the pole, increasing productivity and reducing total costs.



640063 SET3110MC 3" with RC-TS1

640064 SET4110MC 5" with RC-TS1

Both supplied with: BDC45 Batteries (2ea), CDC56 Charger (1ea), sunshade, lens cap, rain cover, manuals, carrying case.

Also includes RC-PR1 Pole Transmitter with SB171 Pole Bracket.

When combined with the 647011 3ASd Data Radio Kit, and an appropriate data collector, the Instrument can be operated as a complete Remotocatcher system.

Accessories:

647011 Satel 3ASd Data Radio Kit with Carrying Case

Supplied with: Satel 3ASd radio (2ea), Satel radio battery (2ea), stub antenna (2ea), radio pole bag (2ea), 120VAC charger (2ea), radio to SET cable (2ea), radio to data collector cable, carrying case with padded foam dividers.

646046 RC-PR1 Pole transmitter

646047 SB171 Pole bracket

552071 Universal clamp/Pole bracket

646045 BDC45 battery

646056 CDC56 charger, 120VAC

646051 Radio kit case 1550, orange, with padded divider

647004 Satel stub antenna

647005 Radio pole bag

647006 Radio charger, 120VAC

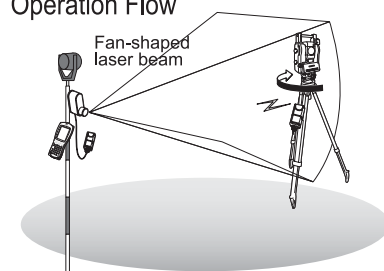
647007 Satel on/off battery

647008 Cable (radio to Sokkia SET)

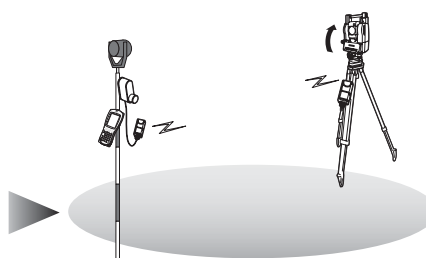
647009 Cable (radio to data collector)

647010 Satel 3ASd radio only

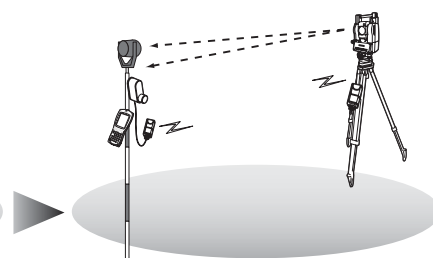
Operation Flow



The Total Station begins to rotate, searching for the laser beam emitted from RC controller.



Once the position of the horizontal direction has been established, the telescope then begins to rotate along the vertical axis searching for the vertical position.



As soon as both positions have been determined, the Total Station performs precise auto-pointing at the prism.

		Remotocatcher System
Range ¹	Standard mode	2 to 100m (2 to 150m) / 7 to 320ft. (7 to 490ft.)
	Far mode	2 to 250m (2 to 300m) / 7 to 820ft. (7 to 980ft.)
Observation time ²		About 12 sec. (up to finishing auto pointing in Rapid Mode) About 15 sec. (up to finishing distance measurement in Rapid Mode)
Communication		Wireless radio communication
Compatible wireless modem		Interface: asynchronous serial RS-232C compatible Conditions: possible to set up the same communication setting as RC-PR1 "Through Mode" provided Power Supply: self-supply Reliance: conforms to CE or FCC regulation
Control terminal		Possible to connect Sokkia total station

¹ Good conditions: no haze, visibility about 40km (25 miles), overcast, no scintillation.

² Instrument Turns 90 (100 gon), 100m (320ft.) distance between instrument and measuring point.



Series 030R Reflecterless Total Stations with Integrated Data Collectors

SET1030R3 • SET2030R3 • SET3030R3 • SET1030R • SET2030R • SET3030R

The Series030R Reflecterless Total Stations are high precision models featuring comprehensive data collection software "Expert".

- The SDR-based "Expert" software provides an integrated solution to a wide variety of data collection and processing tasks, including Topography, Set collection, Traverse adjustment, Building face survey, Set out line, Taping from baseline, Set out arc, Transformation, Set out road surface, and more.
- A keyboard with 26 alphanumeric keys is equipped on both faces of instrument.
- The password function prevents unauthorized use of the instrument.
- CompactFlash card drive incorporated as standard.
- SF14 wireless keyboard is available as an optional accessory.
- GDL2 guide light unit is available as a factory option.
- With the Sokkia Field-Info Express (SFX) feature, data can be sent direct from the field to the office through the use of a cell phone or wireless modem.



630013 SET1030R3 Long-Range 1"

630023 SET2030R3 Long-Range 2"

630033 SET3030R3 Long-Range 3"

Includes: WA100 tribrach, CF card unit, two BDC35A NiMH batteries, CDC39 115VAC quick charger, CP7 tubular compass, lens cap, lens hood, plumb bob, vinyl cover, tool kit, wiping cloth, operator's manual, carrying case, laser caution sign (3R class only) and shoulder strap.

Note: Includes Sokkia SDR Expert on-board data collection program. Instrument includes full Alpha and Numeric keypads.

Accessories:

635033 Cable from SET/NET2 to 9-pin serial port

636039 CDC39 Quick Charger for BDC35/40 120 VAC

636041 CDC41 Quick Charger 12VDC, cigarette lighter plug

636135 BDC35A NiMH Battery

731123 DE25 Diagonal Eyepiece Prism

732951 OF3A Solar Filter

644114 SF14 Remote Keyboard

		SET1030R3	SET2030R3	SET3030R3	SET1030R ¹	SET2030R ¹	SET3030R ¹
Telescope	Magnification	30x					
Angle Measurement		Photoelectrical absolute rotary encoder scanning.					
Display Resolution (selectable) H & V		0.5"/1", 0.1/0.2mg, 0.002/0.005mil		1"/5", 0.2/1mg, 0.005/0.02mil	0.5"/1", 0.1/0.2mg, 0.002/0.005mil		1"/5", 0.2/1mg, 0.005/0.02mil
Accuracy (ISO 12857-2 1997) H & V		1"/0.3mg	2"/0.6mg	3"/1mg	1"/0.3mg	2"/0.6mg	3"/1mg
Compensator		Automatic dual-axis compensator with working range $\pm 3''$ (± 55 mg)					
Distance Measurement		Modulated laser, phase comparison method with red laser diode, coaxial optics					
Maximum Measuring range	Reflectorless ²	350m (1,140ft.)			150m (490ft.)		
Prism/sheet		One AP01 Prism ³ : 5,000m (16,400ft.), Reflective Sheet RS90N-K: 500m (1,640ft.)					
Accuracy	Reflectorless ²	0.3 to 200m (1 to 650ft.): $\pm(3 + 2\text{ppm} \times D)\text{mm}$; Over 200 to 350m (over 650 to 1,140ft.): $\pm(5 + 10\text{ppm} \times D)\text{mm}$			0.3 to 100m (1 to 320ft.): $\pm(3 + 2\text{ppm} \times D)\text{mm}$; Over 100 to 150m (over 320 to 490ft.): $\pm(5 + 10\text{ppm} \times D)\text{mm}$		
Prism/sheet		Glass Prism: $\pm(2 + 2\text{ppm} \times D)\text{mm}$, Reflective Sheet: $\pm(3 + 2\text{ppm} \times D)\text{mm}$					
Data Storage	Internal Memory	Approx. 10,000 points with SDR2x format, approx. 8,800 points with SDR33 format					
Memory Card Drive		CF card drive incorporated as standard					
Weight w/handle and battery		5.9kg (12.9lb.)					

¹The SET1030R/2030R/3030R, Class 2 laser models, are factory options.

²With the white side of a KODAK Gray Card (90% reflective).

³In good conditions: no haze. visibility about 40km (25miles), overcast, no scintillation.

Series130R Reflectorless Total Stations

SET1130R3 • SET2130R3 • SET3130R3 • SET4130R3

SET1130R • SET2130R • SET3130R • SET4130R

The Series 130R reflectorless total stations deliver the same distance and angle measurement capabilities as the Series030R. The most frequently used, popular data collection programs are pre-installed in the Series130R. When combined with Sokkia's SDR series data collectors, a full range of programs will be at your command via a two-way communications function.

- Password function prevents unauthorized use of the instrument.
- Compact Flash card unit is available as a factory option.
- SF14 wireless keyboard is available as an optional accessory.
- GDL2 guide light unit is available as a factory option.



(Pictured with optional CF card and guidelight)

640131 SET1130R3 1"

640132 SET2130R3 2"

640133 SET3130R3 3"

640134 SET4130R3 5"

All Supplied with: 2 ea. BDC35A NiMh Batteries, Quick Charger, CP7 Tubular Compass, Sunshade, Lens Cap, Plumb Bob, Tool Kit, Operator's Manual, Carrying Case.

Accessories:

644114 SF14 Wireless Keyboard

636135 BDC35A Ni-MH Battery

635033 Cable from SET/NET to 9 Pin Serial Port (DOC27)

731123 DE25 Diagonal Eyepiece

732951 OF3A Solar Filter (Flip-Up Type)

636039 CDC39 Quick Charger, 120VAC

636041 CDC41 Quick Charger, 12VDC cigarette lighter plug



		SET1130R3	SET2130R3	SET3130R3	SET4130R3	SET1130R ¹	SET2130R ¹	SET3130R ¹	SET4130R ¹
Telescope	Magnification	30x							
Angle Measurement		Photoelectrical absolute rotary encoder scanning.							
Display Resolution (selectable)	H & V	0.5"/1", 0.1/0.2mg, 0.002/0.005mil		1"/5", 0.2/1mg, 0.005/0.02mil		0.5"/1", 0.1/0.2mg, 0.002/0.005mil		1"/5", 0.2/1mg, 0.005/0.02mil	
Accuracy (ISO 12857-2 1997)	H & V	1"/0.3mg	2"/0.6mg	3"/1mg	5"/1.5mg	1"/0.3mg	2"/0.6mg	3"/1mg	5"/1.5mg
Compensator		Automatic dual-axis compensator with working range ±3" (±55mg)							
Distance Measurement		Modulated laser, phase comparison method with red laser diode, coaxial optics							
Maximum Measuring range	Reflectorless ²	350m (1,140ft.)				150m (490ft.)			
	Prism/sheet	One AP01 Prism ³ : 5,000m (16,400ft.), Reflective Sheet RS90N-K: 500m (1,640ft.)							
Accuracy	Reflectorless ²	0.3 to 200m (1 to 650ft.): ±(3 + 2ppm x D)mm; Over 200 to 350m (over 650 to 1,140ft.): ±(5 + 10ppm x D)mm				0.3 to 100m (1 to 320ft.): ±(3 + 2ppm x D)mm; Over 100 to 150m (over 320 to 490ft.): ±(5 + 10ppm x D)mm			
	Prism/sheet	Glass Prism: ±(2 + 2ppm x D)mm, Reflective Sheet: ±(3 +2ppm x D)mm							
Data Storage	Internal Memory	Approx. 10,000 points with max. 10 job files							
	Memory Card Drive	CF card drive incorporated as factory option							
Weight w/handle and battery		5.8kg (12.7lb.)							

¹The SET1130R/2130R/3130R/4130, Class 2 laser models, are factory options. ² With the white side of a KODAK Gray Card (90% reflective).

³ In good conditions: no haze. visibility about 40km (25miles), overcast, no scintillation.



(Pictured with optional SF14 remote keyboard)



Series30R Reflectorless Total Stations

SET230R3 • SET330R3 • SET530R3 • SET230R • SET330R • SET530R • SET630R

The Series30R models are powerful, yet affordable reflectorless total stations. The recent additions to the series, the Class 3R models, boast even longer range. Combined with the SDR series data collectors a full range of survey programs are available via a two-way communications function.

- Rugged, field-ready design with industry-leading IP66 water and dust resistance.
- A keyboard with easy-to-use softkeys and function keys is equipped on both faces of instrument (except SET630R).
- Password function prevents unauthorized use of the instrument.
- CompactFlash card unit is available as a factory option (except SET630R).
- SF14 wireless keyboard is optionally available (except SET630R).
- GDL 1 guidelight unit is available as a factory option for all models.

644222 SET230R3 2" long-range

644223 SET330R3 3" long-range

644225 SET530R3 5" long-range

644022 SET230R 2"

644023 SET330R 3"

644025 SET530R 5"

644026 SET630R 6"

Accessories:

644114 SF14 Wireless Keyboard

738046 BDC46A Lithium Ion Battery

738082 CDC68 Quick Charger for BDC46A 120VAC

635033 Cable from SET/NET to 9 Pin Serial Port (DOC27)

732932 EL6 30x Eyepiece for SET630R

731123 DE25 Diagonal Eyepiece

732951 OF3A Solar Filter (Flip-Up Type)

All Supplied with: 2 ea. BDC46A Battery (SET630R 1 ea.), CDC68 Quick Charger, CP7 Tubular Compass, Sunshade, Lens Cap, Plumb Bob, Tool Kit, Operator's Manual, Carrying Case

		SET230R3	SET230R3	SET530R3	SET230R	SET330R	SET530R	SET630R
Telescope	Magnification	30x						26x
Angle Measurement		Photoelectrical absolute rotary encoder scanning.						
Display Resolution (selectable)	H & V	1"/5", 0.2/1mg, 0.005/0.02mil						
Accuracy (ISO 12857-2 1997)		2"/0.6mg	3"/1mg	5"/1.5mg	2"/0.6mg	3"/1mg	5"/1.5mg	6"1.9mg
Compensator	H & V	Automatic dual-axis compensator						
Distance Measurement		Modulated laser, phase comparison method with red laser diode, coaxial optics						
Maximum Measuring range	Reflectorless ¹	350m (1,140ft.)			150m (490ft.)			100m (320ft.)
	Reflective Sheet RS90N-K	500m (1,640ft.)						500m (1,640ft.)
	One AP01Prism ²	5,000m (16,400ft.)						4,000m (13,000ft.)
Accuracy	Reflectorless ¹	0.3 to 200m (1 to 650ft.): ±(3+2ppmxD)mm; Over 200 to 350m (over 650 to 1,140ft.): ±(5+10ppmxD)mm			0.3 to 100m (1 to 320ft.): ±(3+2ppmxD)mm; Over 100 to 150m (over 320 to 490ft.): ±(5+10ppmxD)mm			±(3+2ppmxD) mm
	Prism/sheet	Glass Prism: ±(2 + 2ppm x D)mm, Reflective Sheet: ±(3 +2ppm x D)mm						
Data Storage	Internal Memory	Approx. 10,000 points						
	Memory Card Drive	CF card drive factory option						—
Weight w/handle and battery		5.4kg (12lb.)						

¹ With the white side of a KODAK Gray Card (90% reflective). ² In good conditions: no haze. visibility about 40km (25miles), overcast, no scintillation.

Series10 Total Stations

SET210 • SET310 • SET510 • SET610

The Series10 models incorporate absolute encoders to eliminate the need for zero indexing allowing streamlined operation. To further enhance the ease of use, an infrared wireless keyboard SF14 is available as an option for the SET210/310/510. The SF14's full alphanumeric keys facilitate quick operation of the onboard software.

- The pre-installed, versatile survey programs enhance work efficiency in the field allowing an operator to perform a wide variety of survey tasks with ease.
- Dust and Water resistance compliant with IP66.
- A CompactFlash card unit can be added as a factory option to the SET210/310/510.
- The password function prevents unauthorized use of the instrument.



644012 SET210 2"

644013 SET310 3"

644015 SET510 5"

644016 SET610 6"

All Supplied with: 2 ea. BDC46A Battery (SET610 1 ea.), CDC68 Quick Charger, CP7 Tubular Compass, Sunshade, Lens Cap, Plumb Bob, Tool Kit, Operator's Manual, Carrying Case

Accessories:

644114 SF14 Wireless IR Keyboard for SET210, SET310 and SET510

738046 BDC46A Lithium Ion Battery

738082 CDC68 Charger for BDC46A 110VAC, Flat Prongs

635033 Cable from SET/NET to 9 Pin Serial Port (DOC27)

731123 DE25 Diagonal Eyepiece

732932 EL6 30x Eyepiece for SET610

732951 OF3A Solar Filter (Flip-Up Type)

	SET210	SET310	SET510	SET610
Telescope Magnification	30x			26x
Angle Measurement	Photoelectrical absolute rotary encoder scanning.			
Display Resolution (selectable) H & V	1"/5", 0.2/1mg, 0.005/0.02mil			
Accuracy (ISO 12857-2 1997)	2"/0.6mg	3"/1mg	5"/1.5mg	6"/1.9mg
Compensator H & V	Automatic dual-axis compensator			
Distance Measurement	Modulated Modulated near infrared light (IEC Class 1 LED)			
Maximum Measuring range	One AP01 Prism*: 2,700m (8,850ft.), Reflective Sheet RS90N-K: 120m (390ft.)			
Accuracy	Glass Prism: $\pm(2 + 2\text{ppm} \times D)\text{mm}$, Reflective Sheet: $\pm(3 + 2\text{ppm} \times D)\text{mm}$			
Data Storage Internal Memory	Approx. 10,000 points			
Memory Card Drive	CF card drive available as factory option			—
Weight w/handle and battery	5.2kg (11.5lb.)			5.0kg (11.1lb.)

* In good conditions: no haze. visibility about 40km (25miles), overcast, no scintillation.



3-D Coordinate Measuring System MONMOS

NET1200 3-D Station

The MONMOS system handles large-scale 3-D measurement tasks with unprecedented ease. A single operator with a single unit can derive 3-D coordinate values of large structures. As no known station is required, the system can be applied to virtually any situation such as; deformation and displacement measurement of tunnels or buildings, construction supervision and shape measurement of domes, dimensional and shape measurement of large-scale parts used in plants and other facilities, dimensional and shape measurements for construction and repair of ships and aircraft.

Equipped with a new ultra-high performance EDM and absolute encoders, the NET1200 surpasses its predecessors in precision, range, speed, ease of operation, mobility and weather-resistance. The NET1200 is now capable of 1" angle accuracy, and 0.6mm + 2 ppm distance measurement accuracy with sheet targets. Measuring range with sheet targets has also doubled to 200m (650ft.). The NET1200 provides reflectorless measurement capability with an accuracy of 1 + 2ppm up to 40m (130ft.).

**The NET1200 is available exclusively through Sokkia industrial measurement distributors.*

634013 NET1200 [SO]

Supplied with: 2 ea. BDC46A Battery, CDC68 Quick Charger, CP7 Tubular Compass, Lens Cap, Lens Hood, Wiping Cloth, Tool Kit, Operator's Manual, Carrying Case and Shoulder Strap

		NET1200
Telescope	Magnification	30x
Angle Measurement		Absolute rotary encoder scanning.
Display Resolution (selectable)	H & V	1"/5", 0.2/1mg, 0.005/0.02mil
Accuracy (ISO 12857-2 1997)		"/0.3mg/0.005mil
Compensator	H & V	Dual-axis compensator
Distance Measurement		Modulated laser, phase comparison method with red laser diode, coaxial optics
Maximum Measuring range		350m (1,140ft.)
	Reflective Sheet RS50N	1.3 to 200m (4.3 to 650ft.)
	Reflectorless ¹⁾	1.3 to 40m (4.3 to 130ft.)
	Precision Prism CPS12 ²⁾	1.3 to 350m (4.3 to 1,140ft.)
	One AP01 Prism ²⁾	1.3 to 2,000m (4.3 to 6,500ft.)
Accuracy	Reflectorless Sheet Target	±(0.6 + 2ppm x D)mm
	Reflectorless ¹⁾	±(1 + 2ppm x D)mm
	Precision Prism CPS12	±(1 + 2ppm x D)mm (4 to 350m)
	AP01 Prism	±(2 + 2ppm x D)mm (4 to 2,000m)
Weight		5.5kg (12.1lb.)

¹⁾ With the white side of a KODAK Gray Card (90% reflective). ²⁾ In good conditions: no haze, visibility about 40km (25miles), overcast, no scintillation.

Electronic Digital Theodolites

DT210 • DT510 • DT510A • DT610

- The new algorithm which operates the absolute encoders has remarkably reduced power consumption.
- A large LCD screen provides clear angle reading under all conditions, and thanks to simple 4-key operation, no training is required.
- When the instrument is restarted, the DTs display the azimuth automatically.
- Grate stability and reliability are provided by the RAB (Random Bidirectional) code technology that is incorporated in Sokkia's original absolute encoders. For horizontal and vertical angles, both models ensure accuracy of 5"/1.5 mgon/0.025 mil.
- 1" or 5", 0.2 mgon or 1 mgon, and 0.005 mil or 0.02 mil angle display units can be chosen that best suit a particular job.
- Offer superior dependability even under harsh environmental conditions.
- Selectable Angle Left/Right or Percent of Grade.
- Directional beep at every 90°

730002 DT210 2" [SO]

730015 DT510 5"

730016 DT510A 5" Single Display [SO]

730017 DT610 7"

Accessories:

731123 DE25 Diagonal Eyepiece Prism

DT210/510/510A/610 Includes: WA100 Tribrach, two C batteries, lens cap, sunshade, plumb bob, operator's manual, carrying case and shoulder strap.
*vinyl cover & CPT tubular compass not included.



DT510

		DT210	DT510	DT510A	DT610
Telescope	Magnification	30x			26x
Display Resolution (selectable)	H & V	1"/5", 0.2/1mg, 0.005/0.02mil			5"/10", 1/2mg, 0.02/0.05mil
Accuracy (ISO 12857-2 1997)		2"/0.6mg	5"/1.5mg		7"/2.2mg
Display		LCD, 8 digits x 2 lines w/backlight			LCD, 8 digits x 2 lines w/built-in illumination on one face
Display location		On both faces			One face
Compensator		Dual-axis compensator, working range ±3" (±55 mgon)			
Dust and water protection		IP66 (IEC60529)			
Weight w/handle and battery		4.7kg (10.3lb.)		4.5kg (9.9lb.)	4.2kg (9.3lb.)
Battery		LR14/C batteries x2			
Continuous use with alkaline batteries		Approx. 75 hours		Approx. 110 hours	



LP30A and LR100

LP30A • LP31A Leveling Lasers and LR100 Detector

Whether used indoors or outdoors, the LP30A and LP31A answer a wide range of leveling application requirements.

- LP30A and LP31A employ Sokkia's precision pendulum compensator with air damper which is unaffected by temperature variations.
- Both models operate for 90 hours with four alkaline batteries and 40 hours with a Ni-cd rechargeable battery BDC4A.
- The LR100 detector has displays on both faces. Two sensitivity settings can be selected.

740130 LP30A Level Planer

740131 LP31A Level Planer

Accessories:

731123 DE25 Diagonal Eyepiece Prism

740138 BDC38 Battery Cassette

740139 BDC39 NiCd Battery

740149 CDC49 Charger for BDC39

745104 LPC4 Rod Bracket

740103 LR100 Detector

	LP30A	LP31A
Rotation Speed	600rpm	
Typical Measuring Range	Radius	Radius
	1,000ft. (300m)	400ft. (120m)
Horizontal Accuracy	7" (1mm/30m)	10" (1.5mm/30m)
Accuracy	1/25" at 100ft.; 1/8" at 300ft.	1/16" at 100ft.; 1/4" at 300ft.
Working Range	Up to 1,000ft. radius	Up to 400ft. radius
Compensator	Pendulum compensator with air damper	
Weight w/battery	2.5kg (5.5lb.)	
	LR100 Detector	
Detection Sensitivity	Setting 1	H: $\pm 0.8\text{mm}$, L: $\pm 2.5\text{mm}$
	Setting 2	H: $\pm 2.5\text{mm}$, L: $\pm 4.3\text{mm}$
Weight w/battery	Approx. 200g (7.1 oz)	

TRIAX EL400H Electronic Laser

A general-purpose laser for construction leveling applications.

- Horizontal Self-levelling.
- Visible beam class 3R laser
- Automatic "TILT" function.
- Includes 2 D-cell batteries, R50 Detector and clamp.
- Range: 500 ft radius.
- Accuracy: 1/8" at 100ft.

742042 TRIAX EL400 Electronic Level (includes R50 detector and rod clamp)

Accessories:

742150 R50 Detector with Rod Clamp

742144 NiCd Battery Pack

742142 CDC42 Charger, 120VAC

TRIAX MP400 Multipurpose Laser

A self-levelling Horizontal/Vertical laser for interior and exterior work.

- Self-levelling horizontal and vertical.
- Visible beam class 3R laser.
- Plumb beam, Scanning and Chalk line modes.
- Range: 500 ft. radius.
- Accuracy: 1/8" at 100ft.

742090 TRIAX MP400 Interior Kit (Includes SM200 and R81 Detector/Remote with Rod Clamp)

742091 TRIAX MP400 Exterior Kit (Includes R81 Detector/Remote and Rod Clamp)

Accessories:

742182 R81 Detector/Remote with Rod Clamp

742120 SM200 Universal Wall Bracket

TRIAX UL300 Universal Laser

An all-purpose rugged construction laser with grade control.

- Horizontal and Vertical self-levelling.
- Plumb beam, Scanning, and Chalk line modes.
- Rugged All-weather housing.
- Internal rechargeable battery.
- Remote grade input X and Y.
- Levelling Range: 500ft. radius.
- Grade Range: -10% to +10%.
- Accuracy: 1/8" at 100ft.

742030 TRIAX UL300 Universal Laser (includes 120VAC Charger and 742131 Laser Target; detector sold separately)

MC500 Machine Control Receiver

Designed for Grading and Excavation work.

- Built in plumb indicator.
- 360 degree beam reception.
- Bright LED display.
- Working Range: 2000ft. radius.

742050 TRIAX M500 Machine Control Receiver

742152 MM-2 Magnetic Mount Bar

MC550 Universal Laser Receiver

Designed for rod or machine attachment.

- Magnetic base can attach to grader or excavator boom.
- Beam reception: 240 degrees.
- Three accuracies: 3/32", 3/16", 1/2".

742155 TRIAX MC550 Universal Laser Receiver



EL400H



MP400



UL300



MC500



MC550



SDL30m Digital Level

The SDL30 is an accurate, dependable digital level that combines user-friendly convenience with improved productivity and cost performance. Impressive performance is achieved through the use of the Sokkia exclusive RAB-Code (RANdom BIDirectional Code) staff. Operation is as simple as aim at the staff, adjust the focus, and with a single touch of the key measure height, distance and elevation.

- Excellent accuracy: 0.6mm in a 1km double-end loop with Invar staffs; 1.0mm with Fiberglass Staff.
- External data port for interface with data collectors or a PC.
- Internal memory capable of recording up to 2,000 measurements.
- Water resistant IPX4.

**Invar staffs are available for higher accuracy leveling requirements.*

738030 SDL30M Digital Level
Complete with BDC46 battery,
CDC68 charger, carrying case,
tool kit, rain cover and
operation manual

Accessories:

738040 BGS27 2m fiberglass bar code
staff

738041 BGS40 4m fiberglass bar code
staff

738042 BGS50 5m fiberglass bar code
staff

738043 BGS50-G3 16ft. fiberglass
barcode staff (ft/10ths)

Accessories (cont):

738044 BAS55 16ft. aluminum
barcode staff (metric)

635033 Cable from SDL30M to 9-pin
serial port

738046 BDC46 lithium ion battery

738068 CDC68 charger for BDC 46
(100-240VAC)

738083 DE23 diagonal eyepiece

738095 GS20L circular level for BGS
rod (20' / 2mm)

738096 GS60L circular level for BGS
rod (60' / 2mm)

	SDL30
Height Accuracy*	0.6mm (with Invar RAB-Code staves), 1.0mm (with Fiberglass RAB-Code staves)
Distance Accuracy	Up to 10m (33ft.): Within $\pm 1\text{cm}$ (2.5in.), 10m to 50m (33ft. to 160ft.): $\pm 0.1\%$ x D
Measuring Range	1.6 to 100m (5.3 to 330ft.)
Minimum Display	Height Fine: 0.1mm (0.001ft.), Distance Fine: 1cm (0.1ft.)
Measuring Time	Fine: Less than 3 seconds, Tracking: Less than 1 second
Telescope Magnification	32x
Compensator	Type: Pendulum compensator with magnetic damper, Working Range: $\pm 15'$
Horizontal Circle	Graduation: 1° (1gon)/Estimation: 0.1° (0.1gon)
Data Storage	Up to approx. 2,000 points, with up to 20 job files.
Weight w/battery	2.4kg (5.3lb.)

* Standard deviation for 1km double-run levelling.

Automatic Levels

Sokkia provides a wide range of automatic levels to suit your specific needs. All models incorporate exclusively designed precision compensators that employ a magnetic damping system for outstanding accuracy and dependability.

B1/B1C - Engineer's Grade

- 737250** B1 32x Precision Automatic Level, 1:100 stadia, complete with hermetically sealed SE8 case, adjusting pin, screw-driver, lens cap, rain cover and operation manual
- 737200** B1 32x Precision Automatic Level, 0.3:100 stadia, with same equipment as 737250 [SO]
- 737255** B1C 32x Precision Automatic Level, 1:100 stadia with horizontal circle, plumb bob and same equipment as 737250
- 737205** B1C 32x Precision Automatic Level, 0.3:100 stadia with horizontal circle, plumb bob and same equipment as 737250 [SO]

B20/B21 - Engineer's Grade

- 738260** B20 32x Automatic Level, complete with high-visibility fitted SE35 carrying case with shoulder strap, plumb bob, hexagonal wrench, adjusting pin cleaning cloth, lens cap, rain cover, and operation manual
- 738160** B21 30x Automatic Level, with same equipment as 738260

C300 Series - Construction Grade

- 738470** C300 28x Automatic Level, complete with high-visibility fitted SE35 carrying case with shoulder strap, plumb bob, tool kit, lens cap, rain cover and operation manual
- 738475** C310 26x Automatic Level, with same equipment as above
- 738570** C320 24x Automatic Level, with same equipment as above
- 738575** C330 22x Automatic Level, with same equipment as above

C410 - Construction Grade

- 738580** C410 20x Automatic Level



B1C



B20



C300



C310



C320



C330



C410

		B1C	B1	B20	B21	C300	C310	C320	C330	C410
Telescope	Obj. Aperture	45mm (1.8in.)		42mm (1.7in.)		36mm (1.4in.)		32mm (1.3in.)		30mm (1.2in.)
Magnification		32x			30x	28x	26x	24x	22x	20x
Minimum Focus		2.3m (7.5ft.)		0.3m (1.0ft.)						0.9m (3.0ft.)
Accuracy		Standard deviation for 1km double-run leveling								
W/O Micrometer		0.8mm (0.03in.)		1.0mm (0.04in.)	1.5mm (0.06in.)	2.0mm (0.08in.)				2.5mm (0.1in.)
W/ Micrometer		0.5mm (0.02in.)		0.8mm (0.03in.)	1.2mm (0.05in.)	N/A				
Compensator	Type	4 wire pendulum compensator with magnetic damping system								
Working Range		±10°		±15°						
Horizontal Circle Graduation		1° (1gon)	N/A	1° (1gon)						
Water Resistance		N/A		IPX4 (IEC60529)						N/A
Weight		3.2kg (7.1lb.)	3.0kg (6.6lb.)	1.85kg (4.1lb.)		1.8kg (4.0lb.)				1.0kg (2.2lb.)

Data Collectors



Carlson Explorer™

Carlson Explorer is a low cost, handheld computer with a customized keyboard that optimizes the performance of Carlson SurvCE data collection software. The Carlson Explorer is provided as a bundled option with the powerful Carlson SurvCE data collection software.

- Rechargeable Nickel Metal Hydride battery or 6 AA alkaline batteries.
- Touch screen.
- Humidity: 5-95% Non-condensing.
- SDRAM: 64MB.
- Internal Compact Flash: 128MB.
- Compact flash card slot.
- RS232 serial communications port.

551455 Carlson Explorer, 400Mhz, with SurvCE Total Station

Carlson SurvCE Upgrades:
Add instrument options or advanced Roding capabilities.

556955 SurvCE RTS Upgrade – Add Robotic Total Stations to TS

556956 SurvCE GPS Upgrade – Add GPS RTK to TS

556957 SurvCE Complete Upgrade – Add RTS and GPS RTK to TS

556936 SurvCE Roding Upgrade – Add Advanced Roding to TS

556937 SurvCE RTS Roding Upgrade – Add RTS and Roding to TS

556938 SurvCE GPS Roding Upgrade– Add GPS and Roding to TS

556939 SurvCE Complete with Roding Upgrade



JETT®•ce

Designed for one-handed operation, the The JETT•ce is an ideal solution to meet the complex and varied requirements of a wide range of applications. The JETT•ce is provided as a bundled option with SDR Level 5.

- Microsoft Windows CE .NET 4.2 operating system with Intel XScale Technology Processor
- Color sunlight readable display with touch screen technology, and a variety of interface capabilities.
- 320x240 pixel QVGA-TFT color (with white LED Backlight)
- Feedback: Tactile and Audible
- Power/Resume switch: 5 programmable LED Indicators
- 8 Definable “Hot” Keys
- One RS-232 Serial Port
- 8 hours minimum operating time
- Operating temperature: -200 to + 500C;
- Humidity: 5-95% (non-condensing)
- 64MB Compact Flash built-in; 64MB SDRAM

807-1-0002 JettCE with SDR Level 5 Software

Allegro CX

The Allegro Field PC® is the ideal all-weather mobile computing tool for applications in natural resources, agriculture and other rugged markets. Enter field notes electronically or directly from sensors such as GPS receivers, electronic calipers, bar code scanners, laser rangefinders and electronic scales.

- Fast processing. 400Mhz X-Scale® processor with MQ1178 Video Graphics accelerator for fast screen refresh rates with complex images.
- Ergonomic keypad with large, matte-finish keys for easy use with gloves. Separate Alpha, Numeric, and Function keys.
- User selectable ON/OFF touch screen interface.
- Large internal memory: 64MB or 128MB of RAM, and 128MB, 512MB or 1GB of internal solid-state disk space.
- Expandable memory. User-accessible PCMCIA card slot.
- Rugged environmental specs. Passed IP67 Water and Dust-proof tests, and MIL-STD-810F temperature shock and drop tests.
- 3800mah NiMH battery for 12-20 hours continuous performance.
- Internal Long-life Lithium battery for Date and Time backup.
- 2 standard DB-9 serial ports, USB docking port, IRDA Infrared port.
- Wireless ready. Integrated internal Bluetooth Class 2 (standard on color models).
- Wide temperature operating range. -22F to 130F (-30 to 54C).
- Windows® CE.NET 4.2 operating system.



552301	Allegro CX 64/128 Monochrome	<i>All Allegro CX kits listed here include:</i>
552303	Allegro CX 64/128 Color with Bluetooth	Allegro CX Data Collector (includes Allegro CX Data Collector, Hand Strap, Serial Interface Cable, Installation CD-ROM, Stylus, Allegro NiMH Battery Pack, Allegro 115VAC Charger Power Supply);
552305	Allegro CX 128/512 Color with Bluetooth	

USB/Power Dock (includes USB/Power Dock and USB Cable); Sokkia SET Instrument to 9-Pin Serial Cable, Coiled; Sokkia Universal Data Collector Case

Allegro CX Software Options

Carlson SurvCE™

Carlson SurvCE from Sokkia offers users a unique solution to field data collection. Carlson SurvCE incorporates classical "surveyor-centric" design into a modern graphical user interface. Available in separate modules for Total Stations, GPS and Robotics, users can purchase "what they need" for their current job tasks, and upgrade at any time when additional equipment is added.

- Fast instrument/settings recall.
- Reciprocal calculations.
- Raw data editor.
- Slope staking.
- Field to finish.

555954	Carlson SurvCE TS (Total Station)
555936	Carlson SurvCE TS with Roding
555955	Carlson SurvCE RTS (Robotic Total Station; includes TS)
555937	Carlson SurvCE RTS with Roding
555956	Carlson SurvCE GPS (includes TS)
555938	Carlson SurvCE GPS with Roding
555957	Carlson SurvCE Complete - TS, RTS, GPS
555939	Carlson SurvCE Complete with Roding

License upgrades are available through your Sokkia dealer.

SDR Level 5

SDR Level 5 offers the familiar interface of the legendary SDR33, with advanced processing capabilities available in Windows CE devices. SDR Level 5 is an all-inclusive software product, capable of operating Total Stations, GPS RTK, Robotics, and Digital Levels.

- The SDR's full functionality increases your productivity, offering topographic survey, stake-out, roading and coordinate geometry (COGO) options.
- The industry-standard SDR file format provides instant compatibility with most desktop software packages today.
- New features, including sidehill survey, state plane transformations, graphical point display and more.

606-0-0018	SDR Level 5 CE Software (software only)
606-1-0020	SDR Level 5 CE Upgrade (from previous L5 versions to 5.51)

Planimeters



365120



362122 (shown with 365125)



365110



365161



365170

Planix EX / EX-L Coordinate Planimeter

- 365120** Planix EX
- 365122** Planix EX-L
- 365125** Printer for Planix EX/EX-L
- 365126** Printer paper for Planix EX/EX-L (10 rolls)
- 365129** RS232 Serial cable with Data Transfer Software

Planix 10S Digitizing Area Line Meter

- 365110** Planix 10S

Planix 6 Roller Planimeter

- 365161** Planix 6

Planix 7 Roller Planimeter

- 365170** Planix 7

□= Option	Planix 6	Planix 7	Planix 10S	Planix EX/EX-L
X, Y Coordinates				•
External outputs				•
Area	•	•	•	•
Side length			•	•
Line length			•	•
Radius				•
Center point				•
Triangle (base length, height and area)				•
Angle (side length and angle)				•
Scale: key input		•	•	•
Scale: PLOT-real measurement correction			•	•
Measuring area for differing scale of X, Y		Area only	Area only	•
Sum and average measurement	•	•	•	•
Decimal point set-up			•	•
Auto power off	•	•	•	•
Calculation				•
Display	dot LCD 8 digits x 1 line		dot LCD 16 digits x 2 lines	dot LCD 17 digits x 3 lines
Measuring range	300mm x 3m		300mm x 10m	EX: 380mm x 10m EX-L: 450mm x 10m
Minimum line reading	±0.1cm		±0.05mm	
Accuracy	±0.2%		±0.1%	
Auto close function			•	•
Automatic numbering				□
Printer				□
RS-232C interface cable				□

Suunto E203 Altimeter

- Range—1,600 to 29,500 ft (-500m to 9,000m)
- Resolution—3ft/10ft (1m/5m) user selectable
- Displays day, date, year and current time
- Displays temperatures: Fahrenheit or Celsius to 1 degree
- Luminous display
- User replaceable battery
- Water resistant
- Supplied with lanyard and belt loop
- Size 2.4 x 3.5 x 0.8 inches (60 x 90 x 20 mm)

800196 Suunto E203 altimeter

Compasses

- Quality, professional compasses.
- Accuracy of 10' (1/6°).
- Temperature-resistant liquid.
- Shockproof housing for durability.
- Needle pivoted on polished sapphire with non-wear bearing assembly.
- Factory balanced against magnetic inclination.
- No projecting or adjustable parts for one-handed, easy operation.

802430 Round Lens with 4-Fold Magnification. Triangular and round holes for control marking; arrows indicate direction of travel; 4-sec. damping.

802442 Graduated 0-360° with two-degree intervals; parallax error can be eliminated by means of arrangement of luminous points and color lines; 5-second damping.

Sighting Compasses

- Watertight design.
- ABS plastic screen for improved clarity.

802510 0-360° in plastic housing.

802530 0-360° with reciprocal scale in metal housing with case.

802531 same as 802530, except includes built-in illumination. [SO]

802535 same as 802530, except includes adjustable declination. [SO]

802540 quad 0-90° in metal housing with case.

802545 same as 802540, except includes adjustable declination.

802503 Rubber compass cover fits 8025-30, -40, -75, -90. [SO]



800196



802442



802430



802510



802530

Clinometers, Field Books



802506



802575



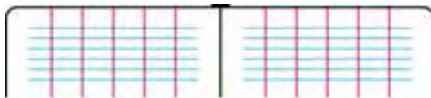
802656



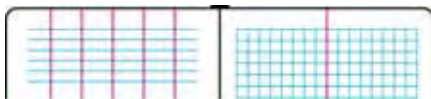
802622
(pictured with
802656)



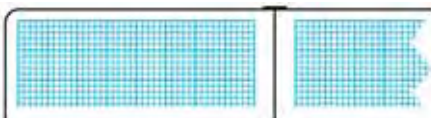
802256



815250, 815255 - Level Book



815260 - Field Book



815275 - Cross-Section Book

Twin Precision Compass/Clinometers

- Two instruments in one—precision compass and clinometer combination.
- Built-in prismatic sighting for fast field use.
- Resists corrosion, water and impact.
- Use for directional indications and slope/height measurements with an accuracy of $\pm 0.25^\circ$.
- Compass graduations 0-360°.

802506 1380 Tandem Compass/clinometer

802507 51-Tandem-D tandem clinometer w/ adj. declination

Clinometers

- Perform a number of leveling and measuring jobs.
- Use as a hand level, builder's level, optical plummet and slope indicator.
- Measures vertical angles, computes height, determines slope angles and levels for rough surveying.
- Damping liquid immerses all moving parts inside a sturdy, hermetically-sealed container for shock-free, smooth movement.
- Liquid will not freeze or evaporate, even under extreme conditions.
- Scale card supported by jewel-bearing assembly.
- Nothing to adjust for easy, one-hand operation.

802575 0 $\pm$ 90° scale on the left, 0 $\pm$ 150% scale on right; reads directly to 1/6 of one degree or 1/5 of one percent; nylon case.

802590 0 $\pm$ 90° scale on the left and scale for direct reading of height of objects on the right; right scale reads directly to $\pm$ 200' at 66 ft.; nylon case.

Ball and Socket Head

- Includes removable thimble.

802622 Complete with belt-loop carrying case. [SO]

Leather Case

802660 With belt loop [SO]

Pocket Transits

Precision combination instruments that will perform practically all surveying functions and are widely used for preliminary surveys. 2 1/8 in. damped needle with a jeweled pivot. Vertical circle graduated 0-90° both directions, with a vernier arm reading to 10'. Velvet-lined belt-loop case included.

802651 Instrument with circle 0-360° with case; damped [SO]

802656 Instrument with circle in quadrants with case; damped [SO]

Telescoping Jacob Staff

Tubular aluminum adjusts in four steps from 21 to 64 in. Upper end is tapered with 1/4 x 20 thread for attachment directly to ball and socket head. Also fits rangefinders and most cameras. In cloth carrying case.

802256 Telescoping Jacob Staff [SO]

Level Book

Both pages: blue horizontal lines, red vertical lines. 6 vertical columns.

815250 4 x 6 1/2 in.

815255 4 1/2 x 7 1/4 in.

Field Book

Left page: blue horizontal lines, red vertical lines. Right page: 4 x 4 blue lines, red vertical center line. Size: 4 1/2 x 7 1/4 in.

815260 Field Book

Cross-Section Book

Both pages: 10 x 10 blue lines with inch lines slightly heavier. Size: 6 1/2 x 8 1/2 in.

815275 Cross-Section Book

Transit/Economy Field Books

Left page: blue horizontal lines, red vertical lines. Right page: 8 vertical and 4 horizontal blue lines, red vertical center line. Size: 4 1/2 x 7 1/4 in.

- 815200** Transit Field Book.
- 815205** Economy Field Book; heavy paper cover, spiral bound, 36 pages.
- 815210** Economy Field Book; heavy paper cover, saddle stitched (stapled), 32 pages.
- 815280** Duplicating Transit Book

Mining Transit Book

Left page: blue horizontal lines, red vertical lines. Right page: 8 x 8 blue lines, red vertical center line. Size: 4 1/2 x 7 1/4 in.

- 815220** Mining Transit Book

Engineer's Field Book

Left page: blue horizontal lines, red vertical lines. Right page: 10 x 10 blue lines; red vertical center line; inch lines heavy. Size: 4 1/2 x 7 1/4 in.

- 80 pages — 50% cotton rag content paper
- Weatherproof, durable.
- Left and right pages register.
- Formulae for solving right angles, curves.
- Tables for minutes in decimals of a degree, inches in decimals of a foot.

- 815230** Engineer's Field Book

Rite-In-The Rain® Weatherproof Field Books

Paper created especially for writing in wet weather. Standard 6-ring style.

- 815400** 80 leaves ruled 8 vertical lines / in.; 4 5/8 x 7 in.; yellow poly. cover
- 815410** 100 loose-leaf pack for 815400
- 815405** 80 leaves ruled 6 vertical columns / page.; 4 5/8 x 7 in.; yellow poly. cover
- 815415** 100 loose-leaf pack for 815405

Loose-Leaf Field Book Sheets

Single sheets:

50 singles / pkg., 12 pkgs. per carton, sold by the pkg.

- 815300** Transit Field, like 815200
- 815320** Mining Transit, like 815220
- 815330** Engineer's Field, like 815230
- 815350** Level, like 815255
- 815360** GPS

Double sheets:

50 / pkg., 12 pkgs. per carton, sold by the pkg.

- 815302** Transit Field, like 815200
- 815332** Engineer's Field, like 815230
- 815352** Level, like 815255

High-Visibility Buckram Binders

Buckram-covered stiff board construction lined with black paper. Standard six-ring style.

- 815370** 50-page capacity. 5 3/8 x 7 3/4 in., w/ 1/2 in. rings
- 815375** 100-page capacity. 5 3/8 x 7 3/4 in., w/ 3/4 in. rings

High-Visibility Polyethylene

55-gauge, one-piece cover resists dirt, and withstands tough weather. Standard 6-ring style.

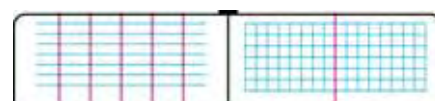
- 815378** 50-page capacity. 5 3/4 x 7 3/4 in., w/ 1/2 in. rings
- 815379** 100-page capacity. 5 1/2 x 7 3/4 in., w/ 3/4 in. rings

Ephemeris Reference Handbook

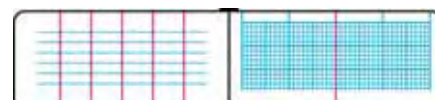
- 111105** 2005 Solar Observation Handbook & Ephemeris
- 111106** 2006 Solar Observation Handbook & Ephemeris (available Fall 2005)



815200



815220 - Mining Transit Book



815230 - Engineer's Field Book



111105

Flagging, Stake Flags, Whiskers



8120-0X

8120-2X

Presco "Texas" Flagging

- Colorfast and rainproof.
- Contains no toxic lead.
- Rolls are 13/16 in. wide.
- Packed 1 dozen to a box, sold by the box.

8110-XX Solid; 300 ft. roll. Specify color: -00 Red, -01 Orange, -02 Blue, -03 Yellow, -04 White.

Fluorescent; 150 ft. roll Specify color: -00 Glo Red, -01 Glo Orange, -03 Glo Yellow, -04 Glo Pink.

**Colors cannot be assorted within box.*

Hammerhead Flagging

- Best value.
- Rolls are 1 1/8 in. wide.
- Packed 1 dozen to a box, sold by the box.

8120-0X Solid; 300 ft. roll. Specify color: -0 Blue, -1 White, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Forest Green, -7 Pink, -8 Black.

8120-2X Solid; 150 ft. roll. Specify color: -0 Glo Orange, -1 Glo Pink, -2 Glo Red, -3 Glo Lime, -4 Glo Yellow, -5 Glo Blue.

**Colors cannot be assorted within box.*

Stake Flags

- Bright vinyl flags securely attached to stiff steel wire stakes.
- Packed 100 to bundle; 10 bundles per box. Sold by the box.

8108-XX 21 in. tall. Flag size: 2 1/2 x 3 1/2 in. -00 Pink Glo, -01 Orange Glo, -02 Blue, -03 Yellow.

8109-XX 30 in. tall. Flag size: 2 1/2 x 3 1/2 in. -00 Pink Glo, -01 Orange Glo, -02 Blue, -03 Yellow.

8113-XX 36 in. tall. Flag size: 4 x 5 in. -00 Pink Glo, -01 Orange Glo, -02 Blue, -03 Yellow.

Stake Whiskers

- Packed 25 per bundle.

117XX -41 Orange, -42 Red, -50 Red, -51 Blue, -52 Purple, -53 Pink Glo, -54 White

Flagging Tape Dispenser

- The convenient way to cut flagging tape strips of any length.
- Lightweight, rustproof; fits on belt or waistband.

811010 Flagging Dispenser, Metal; holds 1 roll (not pictured)



811300



810900



810800



11742

Bulz-I® Hand Levels - 1x

- Draw-out eyepiece extends overall length for greater accuracy.
- Brass construction.
- Bubble reflected by first surface mirror for maximum illumination.
- No springs; adjustable with positive two-screw motion.
- Inner works mounted on removable slide for easy cleaning and maintenance.
- Padded belt-loop case.

804000 5-in. length; extends to 7 in.

804005 Same as above, but with stadia lines — ratio 1:20

Hand Level - 1x

- Fixed eyepiece; internally mounted bubble assembly and adjustable reflector.
- Hexagonal objective cap prevents rolling.
- 6 in. length with durable finish.
- Padded belt-loop case.

804350 1x Hand Level with bubble

Magnifying Hand Level - 2x

- 1 in. diameter tube is 6 inches in length; extends to 7 3/4 in.
- 6 in. length with durable finish.
- Padded belt-loop case.

804370 2x Magnifying Stadia Hand Level

Square-Type Hand Level - 1x

- May be used as a bench level.
- 5 1/4 in. length with fixed eyepiece.
- Case.

804520 Square-Type Hand Level (not pictured)

Magnifying Hand Level - 5x

- Provides accuracy at greater distances.
- Objective lens and eyepiece slide for easy focusing.
- Stadia lines with 1:100 ratio.
- 7 1/2 in. length.
- Padded belt-loop case.

804260 5x Magnifying Stadia Hand Level

Heavy-Duty Hand Level - 2x

- All-brass construction with yellow enamel finish.
- Bubble enclosed in level tube for maximum durability.
- 5 5/8 in.; extends to 6 3/4 in.
- Resists dirt and moisture.
- Stadia Lines.
- Padded belt-loop case.

804110 2x Heavy Duty Hand Level



804000



804350



804370



804260



804110

Right-Angle Prisms, Abney Levels



804755

Magnifying Abney Level with Stadia - 5x

- 1:100 stadia.
- 7 3/4 in. barrel extends to 8 5/8 in; durable enamel finish.
- 1 11/16 in. radius arc graduated in degrees (0-90°) in both directions; vernier reading to 10 in.
- Percent scale (0-100%) in both directions.
- Easy-slide focusing motions for objective and eyepiece.
- 1 x 3 3/4 in. flat base for measuring existing grades.
- Padded belt-loop case.

804755 Magnifying Abney Level w/stadia



804781

Right-Angle Prism

- Small and lightweight.
- Single 90° prism for conveniently and quickly setting-off right angles.
- Leather case.

804781 Right-angle prism



804785



804780



804710



804745

Pentaprism

- Two prisms for line of sight to the right and left.
- Clear optical glass between prisms for viewing straight ahead.
- Fully enclosed; self-contained plumb bob with cord.
- Metal construction.
- Leather belt-loop case.

804785 Pentaprism

Double Right-Angle Prism

- Two prisms for line of sight to the right and left.
- Clear optical glass between prisms for viewing straight ahead.
- Fully enclosed; self-contained plumb bob with cord.
- Metal construction.
- Leather belt-loop case.

804780 Double right-angle prism

Abney Level with Clinometer

- Tube is 5 1/8 in. long.
- 1 1/8 in. radius arc graduated in degrees (0-90°) in both directions; vernier reading to 10 in. Slope scale 1:1 to 1:10.
- Padded belt-loop case.

804710 5" Arc, Degree and Slope Abney Level

804715 Same as 804710, with percent-of-grade scale from 0 - 100%

Topographic Abney Level

- Two interchangeable arcs which offer:
 - Chainage correction.
 - Degrees (0-60°) in both directions.
 - Percent of grade.
- Index has friction movement for fine adjustment.
- 6 3/8 in. aluminum level tube extends to 7 3/8 in.
- Non-glare finish.
- Padded belt-loop case.

804745 6 3/8" Top w/2 Arcs Abney Level

Estwing® Hand Axe

- 813035 Estwing Hand Axe with Sheath
- 813046 Estwing Surveyors Axe

Manhole Cover Pick

- 813081 REDTOP Manhole Cover Pick; Diamond Point, Heavy Duty

Collins® Machetes

- 813170 18" Collins Machete
- 813171 22" Collins Machete
- 813172 24" Collins Machete
- 813173 18" Collins Sheath
- 813174 22" Collins Sheath
- 813175 24" Collins Sheath

Bush Hook

- 813010 11 in. blade, 36 in. handle
- 813011 Replacement Handle: 36 in.

Sandvik® Bush Axe

- 813015 7 1/4 in. Swedish steel blade, 28 in. hickory handle
- 813016 Replacement handle: 28 in.
- 813017 Replacement blade: 7 1/4 in.

Seymour® Machete

- 813000 22" machete
- 813001 Machete sheath
- 813002 Canvas sheath

Sledge

- 813012 4# Engr. sledge; 15" handle
- 813013 Repl. handle for 813012
- 813037 Estwing sledge/drilling hammer #4
- 813038 Estwing sledge/drilling hammer #3
- 813060 Sledge/drilling hammer #4, 16" LH

Estwing Hammer

- 813030 30 oz. hammer

Ditch Bank Blade

- 813008 Ditch Bank Blade: 16 in. blade
- 813009 Replacement Handle

Axe with Leather Sheath

- 813019 Hand axe w/ leather sheath [SO]

Estwing Broad Hatchet

- 813045 Broad hatchet: 17 in., 28 oz. [SO]

Estwing Rock Pick Hammer

- 813022 Rock Pick Hammer; 11 1/2 in. handle, 22 oz.
- 813023 Sheath for Rock Pick Hammer



813035



813081



813070



813019



813045



813022



813008



813010



813015

Hand Tools



813060



813007



813039



813018



813065



813080



813085

Estwing Single Jack Sledge with Long Handle

- 813060** 4 lbs.; 14 in. handle
- 813037** 4 lbs.; 11 in. handle
- 813038** 3 lbs.; 11 in. handle

Long-Handled Rock Pick

- 813007** Like 813022, but 16 1/4 in. long

Rock Pick with Leather-Wrapped Handle

- 813039** Rock Pick w/Leather Grip [SO]
- 813023** Leather Sheath

Drill Hammer

- 813018** 4 lb. sledge drill hammer



813082



812911



813052



812910

Small Angle Magnetic Protractor

- 812911** Full-view MONO-VIAL®; dial graduated to 5°; magnetic base and durable Polycast® construction

Bull's Eye Circular Leveling Vial

- 813052** Circular leveling vial with plastic housing mounted on metal base

Line Level

- 812910** Line level, 3 in. long

Estwing Straight Claw Hammer

- 813065** 1 lb. claw hammer

GAD

- 813080** GAD: 3/4 x 1 3/4 x 18 in.

Estwing Rock/Concrete Chisel

- 813085** Concrete chisel: 1/2 x 12 in.

Concrete Drill

- 813089** Concrete drill: 10 x 5/8 in. w/ "V" edge (not pictured)

Estwing Pry Bar

- 813082** Pry bar: 18 in. long, 1 lb.

Sokkia SK Level Rods

Our patented SK Rods are famous for their accuracy and dependability. Their unique oval shape offers better stability than other rods, and all graduations are sized for maximum readability. You can count on the quality of the “original oval leveling rods”—Sokkia/SK’s are simply the best value available today!

- Unique patented oval shape permits equal size graduations full-length, prevents rod from rolling, and is easier to hold.
- New design with reduced overall length.
- Two new sizes: 18ft and 25ft.
- Numerals and graduations are epoxy-protected for maximum wear-resistance and sized for maximum readability.
- Sections cushioned with glides to prevent wear.
- Linear accuracy exceeds 1 in 4,000.
- Made from strong, corrosion-proof fiberglass that’s lightweight and easy to carry; won’t warp or swell.
- Rods have height measuring gauge on back side.
- 5/8" x 11 female threaded hole on top for mini-prism.

807334	18 ft SK rod, ft./in.
807344	18 ft SK rod, ft./10ths
807338	25 ft SK rod, ft./in.
807348	25 ft SK rod, ft./10ths
807349	9 sections 32 ft. in length ft./10ths/100ths; with attached footplate
807357	7 sections 7 m in length Meters/decimeters/ 1/2 centimeters
807367	7 sections 25 ft./7m in length ft./10ths/100ths/metric
727043	Double Male Adapter for attaching mini-prism to top of 14 1/2, 25 ft. and 7m rods.

Surveyor’s Series Leveling Rods (SVR)

SVR Leveling Rods are made in a flat oval shape for the serious user. Sections telescope to allow convenient extension of only those sections required for a particular reading. Scales are glare resistant, protected by an abrasion resistant coating and molded ribs. The SVR series is available in 16 ft. and 25 ft. lengths, two types of foot graduations and three metric scales.

099362	25 ft SVR-25 Leveling Rod 10ths
065071	25 ft SVR-25 Leveling Rod 8ths
099420	16 ft SVR-16 Leveling Rod 10ths
099811	16 ft SVR-16 Leveling Rod 8ths

CR Series Leveling Rods (rectangular type)

The CR Series Leveling Rod incorporates many features: rectangular shape with rounded back corners for a better grip, scale width graduated to fill the entire face of the rod, a measuring scale on backside of rod allowing overall height readings, and is made from strong fiberglass, which is waterproof and corrosion-resistant. The CR series is available in 8 ft., 13 ft. and 16 ft. lengths.

065001	8 ft CR-08-T Leveling Rod 10ths
065003	8 ft CR-08-I Leveling Rod 8ths
065016	13 ft CR-13-T Leveling Rod 10ths
065033	13 ft CR-13-I Leveling Rod Inches 8ths
065028	4 m CR-4.0-CM .5 cm Leveling Rod Metric
065009	16 ft CR-16-T Leveling Rod 10ths
065008	16 ft CR-16-I Leveling Rod 8ths



807349



807334



099362



065001

For replacement sections, button sets and cases, please contact the Sokkia Parts Department at 1-800-4-SOKKIA.

Level Rods



807600



807397



807650

Direct Elevation Rods

Wood:

- Simplified computations; greatly reduced possibility of error.
- Non-glare white ribbon face can be locked in any position.
- Two 5-ft. sections of hardwood.
- Face section carries a 10-ft. endless metal ribbon graduated in feet/tenths/hundredth.

807600 Wood direct elevation rod; weight 5 1/2 lbs.

807605 Replacement ribbon [SO]

807606 Rod carrying case

Aluminum:

- Lightweight aluminum design.

807650 Direct Elevation Rod Aluminum Ft/10th 10 feet

807651 Direct Elevation Rod Aluminum Ft/Inches [SO]

807652 Direct Reading Rod 3 Meter [SO]

807601 Direct Evaluation Laser Rod

Builder's Aluminum Rod

- Aluminum
- 4 Sections/13 ft.
- Orange nylon case.

807397 10ths

807398 in./ft.

Rod Level

- Determines quickly and accurately if level rod is perpendicular.
- Head is adjustable so that a true level can be maintained at all times.

807190 Rod level

San Francisco Rod

- Lightweight and easy to handle; 3 sections.
- Positive-action snap locks and clamps for dependable accuracy.
- Graduations and numbers bonded to steel faces resist corrosion or chipping; divisions to feet/tenths/hundredth.

807164 5 1/2 ft. fiberglass rod, extends to 15 ft.; weight 7 lbs.

Builder's Mini Rods

- Unfolds to 6 1/2 or 9 1/2 ft. leveling rod.
- Printed graduations on both sides are embedded below surface and sealed with reflective yellow finish.
- Lightweight and economical.
- Orange nylon case.

807547 6 1/2 ft. Mini Rod in ft./in./8ths.

807548 6 1/2 ft. Mini Rod in ft./10ths/100ths.

807550 9 1/2 ft. Mini Rod in ft./in./8ths

807551 9 1/2 ft. Mini Rod in ft./10ths/100ths



807550



807164



807190

Invar and Barcode Level Rods

Invar Precision Rods

- Highly accurate leveling rods for use with Sokkia PL1 Precise Level (metric), B1 or B20 (with metric micrometer).
- Graduated to 1cm on Invar steel
- Yellow face and black figures. protected by clear polyester for long life and clarity.
- Wood carrying case and turning plate are recommended to ensure long rod life and optimum accuracy.
- Special order items.
- Come with calibration certificate.

807252 2m Invar Leveling Rod [SO]

807253 3m Invar Leveling Rod [SO]

807262 Wood Carrying Case for 2m Rod

807263 Wood Carrying Case for 3m Rod

807265 Struts for 3m Rod [SO]

807266 Turning Plate [SO]

SDL30 Digital Level Rods

- Sokkia's RAB-Code (RANdom BiDirectional Code) staffs are designed exclusively for use with Sokkia Digital Levels.
- Staffs are available in Invar, Fiberglass and Aluminum in various lengths.

738039 BIS530 3 M Leveling Rod

738041 BGS40 4 M Leveling Rod

738042 BGS50 5 M Leveling Rod

738043 BGS50G3 16 Ft Leveling Rod

738052 30 cm steel BSS30

738056 60 cm steel BSS60

738044 BAS55 small aluminum barcode rod

738038 SDL30 Invar barcode staff, 2 meter, set of two

738039 SDL30 Invar barcode staff, 3 meter, set of two

Important!

Invar level rods have special shipping requirements. Call for details.



807253

738043

Magnifiers, Mag. Locators, Meas. Poles



817000



817028



817310



024054



807396

Magnifiers

817000 Bausch & Lomb Pocket-Size Magnifier with swing leather case; two-inch double convex lens; 2x; accurately ground and polished.

Folding Magnifiers with durable plastic cases/frames:

817020 Single lens, 1 in.; 5x (not pictured)

817028 Double lens, 1 1/4 in.; 4x and 8x

Bausch & Lomb Highly Corrected Pocket Magnifiers with plastic mounts and polished metal swing cases:

817210 Coddington - wide field; single lens construction. 1 in. focus; 10x (not pictured)

817310 Hastings triplet; highly corrected for spherical and chromatic aberration. 1 in. focus; 10x

Magna Trak 102 Magnetic Locator

- Ergonomic, balanced design for easy handling.
- Aluminum sensor tube is waterproof to just under the plastic case.
- LCD window provides digital numeric and bar graph displays plus low battery warning and power line warning indicators.
- Soft carrying case.

024054 Magna Trak 102

Sokkia / SK Measuring Poles

- Exact measurements of up to 26 ft. or 8m are conveniently read on the enclosed, sealed digital readout.
- Rugged fiberglass construction with excellent tensile strength.
- Compact (only 4 ft. 8 in. closed) and lightweight (less than 5 lbs.) for easy carrying.
- Smooth telescoping movement with friction clamps for no-slip extension.

807376 Graduated in ft./in./8ths

807386 Graduated in ft./10ths/ 100ths

807396 Graduated in m/dm/cm

Measuring Pole Specs

Accuracy:	Linear accuracy exceeds 1 in 2,000
Stored Length:	4 ft. 8 in.
Maximum Measuring Range:	26 ft. or 8m
Weight:	4 lbs. 12 oz.

Markers, Scribes, Lumber Crayons

Dixon Redimark® Marker

- Tight-seal, no-roll cap makes marker last longer; stores on base when not in use; supplied with pocket clip.
- Chisel point is ideal for marking on wood, metal, glass, plastic or paper.
- Aluminum body gives 30% more volume.

813471 Black, box of 12

813472 Red, box of 12

Lumber Crayons

- For marking steel, concrete, stone, lumber — almost any surface.
- 4 1/2 in. long, 1/2 in. diameter.
- Packed 12 per box, sold by box.

813461 Carbon Black

813462 Yellow

813463 Red

813464 Fluorescent Pink

813465 Blue



813471



813501

Ideal® Mark Marking Pen

- Industrial-grade marker for surveying and construction layout.
- Valve action with indelible black ink.
- Replaceable tip.
- Metal cap with pocket clip.

813501 Ideal Mark w/Replaceable Bullet Tip, box of 12, black ink

813502 Ideal Mark w/Replaceable Bullet Tip, box of 12, red ink

813503 Replacement Tip, Bullet Style (12 tips per pkg.)

813504 Replacement Tip, Chisel Style (12 tips per pkg.)

Dixon® Wood Crayon Holder

813468 Wood crayon holder

Carbide Point Scriber and Heavy Duty Scribes

- For marking steel, concrete, stone, lumber — almost any surface.

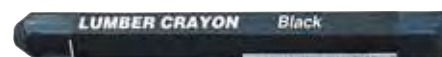
813050 Carbide Point Scriber; 5 1/4"

813053 Premium Scribe; 5"

813054 Giant Scribe; 6 5/8"

813051 Repl. points for carbide scribe

813055 Repl. points for giant and premium scribes



813461



813468



813050

Measuring Tapes - Lufkin

120150



Lufkin Tape Reels

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Length and Width</u>	<u>Graduations</u>
120150	31-100	100'/30m x 1/4 or 5/16"	Figure 8, for chain style tapes
120152	31-200	200'/50m x 1/4 or 5/16"	D-handle, point, for chain style tapes
120153 [SO]	31-300	300'/100m x 1/4 or 5/16"	D-handle, point, for chain style tapes

Lufkin Chain-Style Tapes

Super Hi Way Nubian[®] (Black) 5/16 in.:

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Length and Width</u>	<u>Graduations</u>
122102	O9020MB	1201-50 31-100 20m	Add, metric
122110	O9100B	1201-50 31-100 100 ft.	Add, feet
122120	O9200B	1201-52 31-200 200 ft.	Add, feet
122130 [SO]	O9300B	1201-53 31-300 300 ft.	Add, feet

122110



Lufkin Anchor Chrome-Clad Tapes

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Length</u>	<u>Graduations</u>	<u>Details</u>
120315 [SO]	C216D	100 ft.	ft./10ths/100ths	3/8" wide blade. Ring end.

120315



Note on Graduation Styles

Add style feet:

Tapes have blank space at each end. Extra foot before zero is graduated in 10ths and 100ths from right to left. Balance is marked every foot except last foot of each 100' length, which is in 100ths of feet.

Add style metric:

Tapes have a blank space at each end. The decimeter before zero is graduated in millimeters from right to left. Balance is marked every decimeter and meter.

Lufkin Banner Tapes

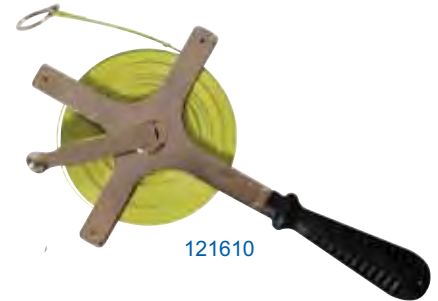
<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Refill Sokkia No.</u>	<u>Refill Lufkin No.</u>	<u>Length and Width</u>	<u>Graduations</u>
120335 [SO]	HW223D			50ft.	ft./10ths/100ths
120345	HW226D			100ft.	ft./10ths/100ths



120335

Lufkin Peerless Yellow-Clad Steel Tapes

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Refill Sokkia No.</u>	<u>Refill Lufkin No.</u>	<u>Length and Width</u>	<u>Graduations</u>
121610 [SO]	Y1276	121611	RY1276	100 ft.	ft./in./8ths
121615	Y1276D	121616	RY1276D	100 ft.	ft./10ths/100ths
121620	Y1278	121621	RY1278	200 ft.	ft./in./8ths
121625	Y1278D	121626	RY1278D	200 ft.	ft./10ths/100ths
121630	Y1279	121631	RY1279	300 ft.	ft./in./8ths
121635 [SO]	Y1279D	121636	RY1279D	300 ft.	ft./10ths/100ths



121610

Lufkin Folding Rules

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Length and Width</u>	<u>Graduations</u>
120245	066D	6'	ft./10ths/100ths and ft./in./16ths ft.
120246	066DM	6'/2m	ft./10ths/100ths and metric
120247	062CME	6'/2m	ft./in./16ths ft. and metric
120575	1066D	6'	ft./10ths/100ths and ft./in./16ths ft., Heavy Duty
120576	1066DM	6ft/2m	ft./10ths/100ths/metric, Heavy Duty



120245

Walk Chain

- Easy, one-person distance measurement.
- Just tie line to tree or other object and walk away.
- Distance traveled is continuously shown on meter.
- At end of measurement, simply clip the biodegradable line which is easily replaced.
- Meter records up to 99,999 feet; easily reset at the touch of a button.
- High-impact plastic housing; weight 1 1/4 pounds.
- Accuracy of measurement $\pm 0.2\%$.

202000	Walk Chain, complete with 4,500-ft. spool of line
202005	Replacement Line 9,000 ft.; orange; 10 rolls in bag
202006	Replacement Line 9,000 ft.; white; 10 rolls in bag

Lufkin Architect's Pocket Scale

- Yellow-clad 1/4 in. x 5 ft. blade with jet black markings.
- 1/4 and 1/8 in. to foot scales.

120364 Architect's Pocket Scale, Automatic Return (Lufkin No. W393).



202000



120364

Measuring Tapes - Lufkin



120112

Lufkin Series 2000 in Chrome-Plated Case

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Blade Width and Length</u>	<u>Graduations</u>
120112	2312D	3/4" x 12'	ft./in./16ths, ft./10ths/100ths
120122	2325D	3/4" x 25'	ft./in./16ths, ft./10ths/100ths
120133	2133D	1" x 33'	ft./in./16ths, ft./10ths/100ths

Lufkin Series 1000 in Black Case

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Blade Width and Length</u>	<u>Graduations</u>
120125	1425D	1" x 25'	ft./in./16ths, ft./10ths/100ths



120125

Lufkin Series HV1000 in Blaze Orange Case

<u>Sokkia No.</u>	<u>Lufkin No.</u>	<u>Blade Width and Length</u>	<u>Graduations</u>
120113	HV1048DM	1" x 25'/7.5m	ft./10ths/100ths/metric
120115	HV1048CM	25mm x 8m	metric
120121	HV1425ED	1" x 25'	ft./10ths/100ths
120128	HV1425D	1" x 25'	ft./in./16ths, ft./10ths/100ths
121915 [SO]	HV1048CME	1" x 26'/8m	ft./in./8ths/metric
121916	HV1433DM	1" x 33'/10m	ft./10ths/100ths/metric



120128

Measuring Tapes - Sokkia/Eslon

Sokkia/Eslon™ Fiberglass Open-Reel Tapes (1/2 in. wide)

- Lightweight case is virtually shatterproof.
- The special handle design makes fast work of reeling.
- Width 1/2 in., with folding metal end hook.



845142

<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>	<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>
845142	50 ft.	845162	845442	50 ft./15m	845462
845144	100 ft.	845164	845444	100 ft./30m	845464
845145	165 ft.	845165	845445	165 ft./50m	845465
845146	200 ft.	845166	845446	200 ft./60m	845466
845148	300 ft.	845168	845448	300 ft./100m	845468

Printed one side; graduated in ft./in./8ths.

Printed both sides; one side graduated in ft./in./8ths — other side m/cm/2mm.

<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>	<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>
845242	50 ft.	845262	845542	50 ft./15m	845562
845244	100 ft.	845264	845544	100 ft./30m	845564
845245	165 ft.	845265	845545	165 ft./50m	845565
845246	200 ft.	845266	845546	200 ft./60m	845566
845248	300 ft.	845268	845548	300 ft./30m	845568

Printed one side; graduated in ft./10ths/100ths.

Printed both sides; one side graduated in ft./10ths/100ths — other side m/cm/2mm.

<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>	<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>
845342	15 m	845362	845642	50 ft.	845662
845344	30 m	845364	845644	100 ft.	845664
845345	50 m	845365	845645	165 ft.	845665
845346	60 m	845366	845646	200 ft.	845666
845348	90 m	845368	845648	300 ft.	845668

Printed one side; graduated in m/cm/2mm.

Printed both sides; one side graduated in ft./in./8ths — other side ft./10ths/100ths.



Sokkia/Eslon Warranty

Sokkia/Eslon tapes are covered by a full one-year warranty. If your Sokkia/Eslon tape breaks, or if it is defective, Sokkia Corporation will replace it, at no charge, for up to one full year from the original date of purchase. This warranty also covers defective or broken tape reels and cases. Details supplied with tapes.

Measuring Tapes - Sokkia/Eslon



845174

Sokkia/Eslon Fiberglass Appraiser's Tapes

- Long-lasting — even after daily use.
- Special hook-end helps assure accuracy.
- Inexpensive.
- Open reel.

<u>Sokkia No.</u>	<u>Length</u>	<u>Refill No.</u>
845174	100 ft.	845184
Printed one side; graduated in ft./in./8ths.		
845274	100 ft.	845284
Printed one side; graduated in ft./10ths/100ths.		
845674	100 ft.	845684
Printed both sides; one side graduated in ft./in./8ths — other in ft./10ths/100ths.		

Replacement Reels for Sokkia/Eslon Fiberglass Tapes

- Lightweight, shatterproof plastic reel with convenient, built-in carrying handle.
- For fiberglass tapes only.

<u>Sokkia No.</u>	<u>Length</u>	<u>Reel Type</u>
845742	50 ft./15m	open reel
845744	100 ft./30m	open reel
845745	165 ft./50m	open reel
845746	200 ft./60m	open reel
845748	300 ft./100m	open reel



845010

Sokkia/Eslon Fiberglass Utility Tapes (1/4 in. wide)

- Especially good for topographic surveys.
- Extremely light, yet totally slip- and tear-proof.
- Not supplied with reel.

<u>Sokkia No.</u>	<u>Length</u>	<u>Graduations</u>
845010	100 ft.	In.
845020	200 ft.	In.
845030	300 ft.	In.
845011	100 ft.	10th
845021	200 ft.	10ths
845031	300 ft.	10ths
845022	50 m	5 cm
845032	100 m	5 cm

Measuring Tapes - Hammerhead

Hammerhead construction surveying supplies provide you quality products at an affordable price. All Hammerhead items are clearly identified by their distinct green color and shark logo. Look for the "Mark of the Shark" when you want the best value in construction marking and measuring products. Available in power tapes, fiberglass tapes or nylon coated steel tapes in many lengths and graduation styles. All cases and reels are sturdy HiVisibility green ABS plastic.

Hammerhead Power Tapes (with belt clips)

<u>Sokkia No.</u>	<u>Description</u>	<u>Graduations</u>
870125	Power Tape 25' x 1"	Inches
870625	Power Tape 25' x 1"	In/10ths
870433	Power Tape 33' x 1"	In/10ths/100ths



870625

Hammerhead Fiberglass Tapes

<u>Sokkia No.</u>	<u>Description</u>	<u># of Sides</u>	<u>Graduations</u>
805144	Tape w/Reel 100'	1 Side	Ft/In
805146	Tape w/Reel 200'	1 Side	Ft/In
805148	Tape w/Reel 300'	1 Side	Ft/In
805164	Refill 100' for 805144		
805166	Refill 200' for 805146		
805174	Tape w/Reel 100' w/Appraisers Hook-End	1 Side	Ft/In
805184	Refill 100' for 805174		
805242	Tape w/Reel 50'	1 Side	Ft/10ths
805244	Tape w/Reel 100'	1 Side	Ft/10ths
805246	Tape w/Reel 200'	1 Side	Ft/10ths
805248	Tape w/Reel 300'	1 Side	Ft/10ths
805264	Refill 100' for 805244		
805266	Refill 200' for 805246		
805274	Tape w/Reel 100' w/Appraisers Hook-End	1 Side	Ft/10ths
805284	Refill 100' for 805274		
805344	Tape w/Reel 30m	1 Side	Meters
805345	Tape w/Reel 50m	1 Side	Meters
805444	Tape w/Reel 100'/30m	2 Sides	Ft/In&M
805445	Tape w/Reel 165'/50m	2 Sides	Ft/In&M
805446	Tape w/Reel 200'/60m	2 Sides	Ft/In&M
805448	Tape w/Reel 300'/90m	2 Sides	Ft/In&M
805544	Tape w/Reel 100'/30m	2 Sides	Ft/10ths&M
805546	Tape w/Reel 200'/60m	2 Sides	Ft/10ths&M
805644	Tape w/Reel 100'/100'	2 Sides	Ft/In&Ft/10ths
805648	Tape w/Reel 300'/300'	2 Sides	Ft/In&Ft/10ths
805674	Tape w/Reel 100'/100' w/Appraisers Hook-End	2 Sides	Ft/In& Ft/10ths
805684	Refill 100'/100' for 805674		
805744	Reel for 100 ft/30m HH Tape		
805746	Reel for 200 ft/60m HH Tape		



805144



805274

Measuring Tapes - Hammerhead



825144



825244

Hammerhead Nylon Coated Steel Tapes

<u>Sokkia No.</u>	<u>Description</u>	<u>Graduations</u>
825144	100' Nylon Coated Steel Tape, Hook End	ft/in
825146	200' Nylon Coated Steel Tape, Hook End	ft/in
825164	Refill for 825144 [SO]	
825166	Refill for 825146 [SO]	
825214	100' Nylon Coated Steel Tape, Hook End	ft/10ths
825216	200' Nylon Coated Steel Tape, Hook End	ft/10ths
825234	Refill for 8252-14	
825236	Refill for 825216	
825244	100' Nylon Coated Steel Tape, Zero Offset End	ft/10ths
825246	200' Nylon Coated Steel Tape, Zero Offset End	ft/10ths
825264	Refill for 825244 [SO]	
825266	Refill for 825246 [SO]	
825344	30m Nylon Coated Steel Tape, Zero Offset End	Metric
825345	50m Nylon Coated Steel Tape, Zero Offset End	Metric

Nails, Brass Caps, Monuments

"P-K" Masonry Nails

- Parker-Kalon ("P-K") hardened masonry nails, zinc-plated to resist rust and increase visibility.
- Packaged in boxes of 100.

813251	3/4 x 1/8 in.
813252	1 x 5/32 in.
813253	1 1/4 x 3/16 in.
813254	1 1/2 x 1/4 in.
813255	2 x 1/4 in.
813256	2 1/2 x 1/4 in.

Monument Spikes

- Large monument spike, 3/8 in. square shank.
- Galvanized with chisel point and button head.
- Makes ideal bench mark or turning point.

813262	6 in. long
813264	8 in. long

Domed Survey Markers

- Solid brass with curved heads.
- Ribbed shank prevents turning or loosening.
- Shank area 0.4 square in.; shank length 2 in.
- Packed 96 per carton.

813410	1 3/8 in. top diameter
813413	2 in. top diameter
813416	2 1/2 in. top diameter
813418	3 in. top diameter

Flat Survey Markers

- Cast from solid brass.
- Ribbed shank prevents turning or loosening.
- 1/8 in. thick top, non-glare finish.
- Shank area 0.4 square in.; shank length 2 in.
- Packed 96 per carton.

813400	1 3/8 in. top diameter
813403	2 in. top diameter
813406	2 1/2 in. top diameter
813408	3 in. top diameter

Crown Survey Markers

- Steel core with thick copper covering in a permanent weld.
- 5/8 in. diameters shanks; bronze heads have 1 1/2 in. diameters.
- Excellent visibility; strong and easy to drive.
- Markers respond to magnetic locators.
- Packed 10 per carton.

813480	18 in. long
813481	24 in. long
813483	36 in. long

Adapter for Crown Survey Markers

- Provides extra-large, 4 in. bronze surface for stamping identification.
- Fits flush with the marker.
- Four triangular points prevent turning.

813488	Crown Survey Marker Adapter
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813251



813416



813406



813480

Nails, Brass Caps, Monuments



813345



811501



813430



813431

Mag Nails®

- Doubles or quadruples detection by metal locator; revolutionary new metal formula retains magnetism.
- Virtually eliminates breakage even when straightening a nail that is partly driven.
- Larger center point for easier driving and coated with a zinc and clear chromate to resist corrosion.
- Packaged in boxes of 100.

813345 3/4 x 1/8 in.

813346 1 x 5/32 in.

813347 1 1/4 x 3/16 in.

813348 1 1/2 x 1/4 in.

813349 2 x 1/4 in.

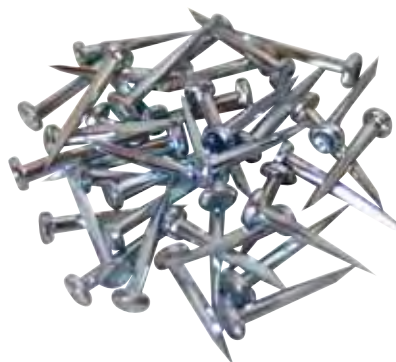
813350 2 1/2 x 1/4 in.

Nail Markers

- One-inch squares made of plastic-impregnated nylon.
- Fluorescent orange color makes spotting stake tacks or P-K nails quick and easy.
- Approximately 70 count per package.

811501 with 1/4 in. hole

811502 with 1/8 in. hole



813270

Lead Wire

- 3/8 in. diameter; 15 in. long.
- For lead and tack reference points.
- Fits hole cut by No. 813089 Concrete Drill.

813220 Lead Wire

Surveyor's Flat Shiners

- Tin; 2 1/4 in. diameter with center punch and crimped edges.
- Especially valuable for indicating semi-permanent points with spikes or nails.
- Three-pound carton (approximately 250 count).

813430 Flat Shiners

Surveyor's Raised Shiners

- Same as above, except 1 5/16 in. diameter with raised, 1 1/8 in. center.
- One-pound carton (approximately 260 count).

813431 Raised Shiners

Stake Tacks

- Steel; 3/4 in. long; bright finish.
- With indentation in head to guide plumb bob point.
- Approximately 725 per one pound box.

813270 Stake Tacks

Marking Paint, Spray Chalk

Marking Paint and Chalk

- Precision-line spray tip for easy-to-read, bright, vivid markings.
- Virtually no overspray.
- Dries in less than 5 minutes.
- Net Weight 17 oz.
- 12 cans per case, sold by can.

Rustoleum Marking Paint:

- Can be applied down to 25 degrees F (-4 degrees C).
- Easy-to-use spray-through cap guaranteed not to clog.
- Best resistance against premature chalking and fading.
- USDA Acceptable.
- Inverted cans

A.P.W.A. Utility Paint Colors:

813900	203038 Safety Red (street lighting, electrical)
813901	203031 Caution Blue (water)
813903	203035 Alert Orange (communication)
813904	203034 Hi-Vis Yellow (gas and oil)
813905	203039 White (cut lines)
813906	1875838 Black
813907	1801838 Clear
813914	1862838 Fluorescent Red
813915	203036 Fluorescent Green
813916	203036 Fluorescent Orange
813917	1861838 Fluorescent Pink

Hammerhead Marking Paint:

813957	Fluorescent Red inverted
813927	Fluorescent Blue inverted
813952	Fluorescent Orange inverted
813953	White inverted
813954	Fluorescent Pink inverted
813955	Fluorescent Green inverted
813956	Black inverted
813960	Yellow inverted

Rustoleum Marking Chalk:

- Designed specifically for temporary marking
- Can be easily removed by wire brush, water or power wash
- Lasts 15-30 days when exposed to traffic and weathering
- Environmentally friendly, water-based formula
- 500-530 linear feet of coverage per can

A.P.W.A. Utility Paint Colors

813908	205236 Blue Spray Chalk
813909	205237 White Spray Chalk
813910	205235 Red Spray Chalk
813911	205234 Yellow Spray Chalk
813912	205238 Green Spray Chalk

Spray Paint Marking Wand

- Lightweight durable steel and plastic construction.
- Comfortable grip for easy marking.

813958 Marking Wand

Spray Paint Marking Pistol

- Use with marking paints for increased accuracy and no mess.
- Light touch spray control.
- Easy loading.
- Quick and convenient.

813959 Marking Pistol

Important!

Paint can only be shipped by ground.



813917



813908



813458



813459

Plumb Bobs, Gammon Reels



812210



812365



812440



812315



879200



812448



812450



812455

Plumb Bobs

- Screw caps and hardened steel points with standard threads.
- Storage space for extra point inside cap.
- Made to U.S. Government specs.

812210	10 oz.
812212	12 oz.
812214	14 oz.
812216	16 oz.
812218	18 oz.
812224	24 oz.
812232	32 oz.
812290	Extra Point (fits all above plumb bobs)
812293	Extra Cap (fits all above plumb bobs)

Plumb Bob Cord

- Made with the finest quality braided cord.

812413	White linen; 25 yd. hank
812423	Orange Linen; 25 yd. hank
812439	Fluor. Yellow Nylon; 50 yd. spool
812440	Fluor. Red Nylon; 50 yd. spool

Leather Scabbard for Pocket Tape and Plumb Bob

- Rugged leather with stitched and riveted pockets.
- Holds tape or Gammon Reel and 16 or 18 oz. plumb bob.

812365	Leather Scabbard
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Leather Scabbards

- Extra-heavy stitched and riveted pocket.
- Accommodates Web Belt No. 812350.

812315	For bobs 10-14 oz.
812325	For bobs 16-18 oz.
812335	For bobs 24-32 oz.

Tally Register

879200	Four-digit capacity with quick return to zero.
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Gammon Reels

- Handy, retracting plumb bob cord reel means no more winding and no more broken or muddy string.
- With 72 lb.-test nylon string; weighs 1 1/2 oz.

812448	12 ft. Gammon reel; black/orange
812449	12 ft. Gammon reel; white/orange
812450	7 ft. Gammon reel; white/orange
812451	24 yd. Nylon refill, red/orange
812452	24 yd. nylon refill, glo yellow
812454	24 yd. nylon refill, glo red

Gammagnet™

- Versatile magnetic case.
- Extra-strong neodymium (rare earth) magnet firmly holds plumb bob 3" from any steel surface.
- Attaches with nail or screw for use on wood surfaces.
- Allows you the flexibility of using the Gammon Reel plumb line reel with or without the Gammagnet magnetic case.

812455	Gammagnet
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Targets

- Available in "Quik-Stik", Plastic, Translucent Plastic and Paper variations.

812640	"Quik-Stik": paper back peels off instantly; sticks to any surface; 2 x 3 1/2 in.; package of 25 (not pictured)
812645	"Quik-Stik": 5 1/4 x 12 7/8 in.; fits exactly around one qt. oil can; pkg. of 10 (not pictured)
812620	Plastic: notched for attaching to line; 2 1/2 x 4 in. (not pictured)
812625	Translucent Plastic: laminated with special "see-through" design for brilliant illumination; 2 1/4 x 4 in.; notched for attaching to line (not pictured)

Advanced Prism Systems (AP Series) 40mm

- 726132** AP11A Single Tilting Assembly
Single tilting mount with AP01
-40mm prism
- 726131** AP32A Triple Tilting Assembly
Triple tilting mount with 3 each
AP01 -40mm prisms
- 726135** AP01 Prism -40mm in
Polycarbonate can
high-precision, coated
- 726134** AP11 Single Tilting Mount
Bayonet base, holds AP01 -
40mm prism
- 726133** AP32 Triple Tilting Mount
Bayonet base, with center hole
for single prism
- 726142** AP11T Single Target
Attaches to AP11 single mount,
non-tilting target
- 726141** AP32T Triple Target
Attaches to AP32 mount, non-
tilting
- 726136** AP01S 10mm Adapter ring
Converts -40mm prism to
30mm P.C.
- 726636** Lens cap for single prism
- 727039** AP30P Sighting Pole
(candy cane); Attaches to top
of AP11, AP32 or SP11 mount

Standard Prism Systems (SP Series) 0/30mm

- 726642** SP11A Single Tilting Assembly,
Transit Base
0/-30mm mount with SP01
prism
*Similar to older 726632, single
tilting mount with transit base
and mounting studs*
- 726648** SP12A Single Tilting Assembly
with Target Assembly
Single tilting mount, 0/-30mm,
with SP01 prism and poly
target
- 726645** SP01 Prism -30mm
Standard prism in
polycarbonate can
- 726634** SP11 Single Tilting Mount,
Transit Base
Single mount, 0/-30mm, for
SP01 prism
similar to older 726632 prism
- 726650** SP12 Single Tilting Mount with
Poly Target
Bayonet base, single mount
with target, 0/-30mm, for SP01
prism
- 726636** Lens cap for single prism
- 727039** AP30P Sighting Pole
(candy cane); Attaches to top
of AP11, AP32 or SP11 mount



726132



726135



726134



726133



726136



726650



726832



726642



726645



726648



560100

Metal Prism Systems (MP Series) 0/30mm

- 726658** MP12A Single Tilting Assembly
with Target
Single tilting mount, 0/-30mm,
with SP01 prism and target
- 726645** SP01 Prism
Standard -30mm prism in
polycarbonate can
- 726660** MP12 Single Tilting Mount with
Metal Target
0/-30mm, metal, for SP01
prism
- 726636** Lens cap for single prism

Specialty Prisms

- 560100** LEA12A Strobe Prism
Bayonet base, single tilting
mount, metal, w/ target strobe
- 726832** P1A Peanut Prism Assembly
0/-30mm peanut prism,
complete with carry case and
accessories

Prism and Range Poles



807841



727047



807849

Composite Prism Poles

Crain® Prism Poles are 30% lighter than conventional poles. They have the revolutionary non-slip Grip-Tite® locking system. Crain's innovative self-storing Topo-Boot® protects the precision point and increases the base area for topographic shots.

- 807841** 8 ft Composilite Prism
- 727080** 8 ft Alumilite™ Prism Pole

Sokkia Aluminum Prism Poles

- Graduated feet and metric.
- Adjustable level vial.
- Replaceable point.
- Telescoping sections.
- Adjustable to match instrument H.I.
- Locking disk to secure prism.

- 727046** Prism pole 8 1/2' TLV
- 727047** Prism pole 12' TLV
- 727044** Prism pole 8 ft.; Collet style locking system.

Prism Pole Tripod and Bipod

Easy-to-use, fully adjustable tripod or bipod for 727044 and other prism poles.

- 807896** Prism pole tripod, thumb release
- 807897** Prism pole bipod, thumb release

Stake-Out Pole

- 727042** 15 in stake-out pole

8-foot Duraline Range Pole

Alternating 12 in. color sections bonded onto aircraft aluminum tubing resist marring and chipping.

- 807848** 8 ft. range pole with three-pocket nylon case
- 807849** 4 ft. section for 807848
- 807850** replacement point

3 meter Duraline Range Pole

- 807842** Same construction as 807848; two 1.5m sections; with three-pocket nylon case
- 807850** replacement point
- 807851** Topo shoe replacement point and Topo shoe fit all poles with 5/8 x 11 male thread

Range Pole Tripod

- Heavy-duty; made with metal center castings and shoes with spurs.
- Adjustable rustproof steel legs for uneven ground.

- 807895** Range pole tripod

Reflective Sheet Targets

Easy-to-use reflective targets, supplied on convenient adhesive-backed sheets, can be directly fixed to measuring points. For alternate needs, rotary targets and a 2-point target are also available.

634402	RT1A Precise Target [SO]
634403	2RT310 Offset Target [SO]
634404	CPS12 Precision Prism [SO]
634405	RT50M Magnetic NET2B Target
634412	RT90M Rotary Target [SO]
634413	RT30G10 Rotary Target [SO]
634414	RT50G10 Rotary Target [SO]
634415	RT90G10 Rotary Target [SO]
634500	RS00 Target 230 x 230mm (1 ea.) [SO]
634506	RS05T Targets 5 x 5mm (400 ea.) [SO]
634510	RS10N Targets 10 x 10mm (400 ea.)
634511	RS10T Targets 10 x 10mm (400 ea.)
634515	RS15N Targets 15 x 15mm (196 ea.) [SO]
634516	RS15T Targets 15 x 15mm (196 ea.) [SO]
634520	RS20N Targets 20 x 20mm (100 ea.)
634521	RS20T Targets 20 x 20mm (100 ea.) [SO]
634530	RS30N Targets 30 x 30mm (49 ea.)
634531	RS30T Targets 30 x 30mm (49 ea.) [SO]
634550	RS50N Targets 50 x 50mm (16 ea.)
634570	RS70N Targets 70 x 70mm (9 ea.)
634590	RS90N Targets 90 x 90mm (4 ea.)
634605	RC50 Reflective Target (73mm x 73mm) [SO]
634610	RC100 Reflective Target (100mm x 100mm) [SO]
636550	RT50P Reflective Target Set [SO]
636552	2RT500 Reflective Target Set [SO]
636590	RT90C Reflective Target (fits AP41/44)

Reflective Sheets

6RS* N/T 0.4 mm thick, self-adhesive sheets that adhere at a touch to almost any dry surface. RS**N has normal (0.3mm) reticle lines.

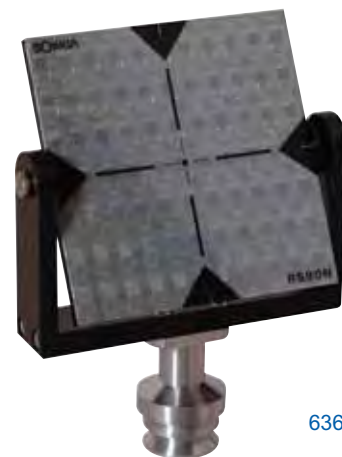
634500	RS00 230 x 230mm (1ea.) [SO]
634510	RS10N 10 x 10mm (400 ea.)
634515	RS15N 15 x 15mm (196 ea.) [SO]
634520	RS20N 20 x 20 mm (100 ea.)
634530	RS30N 30 x 30mm (49 ea.)
634550	RS50N 50 x 50mm (16 ea.)
634570	RS70N 70 x 70mm (9 ea.)
634590	RS90N 90 x 90mm (4 ea.)

Detachable Rotary Target

636590	RT90C 360° rotating sheet target. The RT90C can be mounted on a tribrach with the AP41 Adapter, or mounted directly to prism pole AP61
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Pin-Pole Target

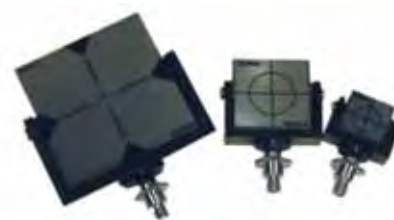
636551	RTSO S-K Pin-Pole reflective target [SO]
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636590



634405 RT50M 50mm reflective target with magnetic base



634413 / 634414 / 634415
10mm Diameter Male Thread



Rolatapes, Measuring Wheels

831040



Model 400

- Counter records to feet with accurate estimation to inches.
- Wheel circ. 4', Diameter 15 1/2".
- Handle folds for storage.
- Automatic brake prevents backtracking.
- Weight: 9 pounds; Color: Orange

831040 Model 400 Rolatape

831043 400M (metric) records up to 100,000m [SO]

831015



831020



Model 415

- 4-foot circumference solid-plated steel disc wheel calibrated to 1/2" on one side, 1/2 of 1/10' on the other.
- Automatically records up to 100,000 feet without resetting.
- Provides reliable outdoor measuring under most terrain conditions.
- Automatic brake prevents accidental backtracking.
- Handle folds for easy storage.
- Weight: 6 1/2 pounds; Color: Orange

831020 Model 415

831005



831019



Model 12 Measure Master – Mark II™

- Push-button counter records up to 1,000'; automatically resets to 0.
- 38" tubular handle contracts to 21".
- Easy-to-read counter mechanism.
- Wheel circ.: 1' , Diameter: 4",
- Weight: less than 2 pounds.

831015 MM12 calibrated in foot/inch

831016 MM12-T calibrated in foot/10ths

831006



Fieldmaster 6.6

- Sturdy tubular steel, the wheel provides durable, accurate performance over rugged terrain and through all kinds of weather.
- Precision counter mechanism is protected by a fully sealed housing and automatically records up to 1,000 wheel revolutions without resetting.

831019 Fieldmaster 6.6 [SO]

831017



Model 30/50 Measure Master™

- Suitable for both indoor and outdoor work.
- Counter records feet and inches up to 1,000' without resetting.
- Wheel circ.: 3'; Diameter 11 1/4".
- Weight: 3 1/4 pounds; Color: Orange.

831005 MM-30 38" handle retracts to 19".

831007 MM-50 same as Model 30 except, Wheel circumference 5', Diameter: 19", Weight 5 lbs.; handle not retractable; recommended for outdoor work. [SO]

831009 MM30-M same as Model 30 except Records 1,000m in m and dm., Wheel circumference: 1m, Diameter: .317m

Model 300M and 300 Rolatape®

- 3' circ., chrome-plated wheel is precision calibrated to capture measurements in feet, meters or yards – up to 100,000 – without resetting.
- 28" enamel-finish handle is designed for easy transport and storage.

831004 300M Meters

831006 300 Feet

831003 300Y Yards [SO]

Model MM12 Twin Measure Master™

- Precision counter with push-button for resetting to zero; records in feet and inches – up to 1,000'.
- Forward movement adds; reverse movement subtracts.
- Handle extends from 20" to 38".
- Wheel Diameter: 4"; dual wheels.
- Weight: 3 pounds.

831017 MM-12 Twin calibrated in feet

831018 MM-12 Twin-T calibrated in feet and 10ths

831021 MM-12 Twin-M calibrated in metric [SO]

Hi-Viz Safety Vest

- Fade-resistant, strong, cool nylon mesh won't crack.
- Resistant to oils, gasoline, chemicals; fire retardant; reversible.
- Velcro closure; one size fits all.

813628 High-Viz Mesh Orange

813629 High-Viz Mesh Orange Safety Vest with vertical reflective stripes

Safety Vests

- Bright for high visibility; can be worn over coat or jacket.
- Durable cloth.

813637 XL Cloth Orange with Reflective Striping

813638 XL Cloth Lime with Reflective Striping

Hard Hats

- High-density polymer for excellent protection against severe impact.
- Molded in one piece with no metal; protects against corrosive materials.
- Meets ANSI Z89. 1-1969 (Class A) — Federal Spec. GGG-H-142g.
- Fits sizes 6-3/8 through 8; weight 11 ounces.

813630 Yellow

813631 White

First Aid Kits

- Purchase replacement items at your local store.
- Includes waterproof case, carrying handle, mounting bracket.

813094 Vehicle First Aid Kit; 8(W) x 5(H) x 2 3/4(D) in.

813095 Emergency First Aid Kit; 9 1/2(W) x 9 1/2(H) x 2 1/2(D) in.

Protective Eyewear

- Stylish eye protection that meets the requirements of ANSI Z87.1 and AS/NZS 1337.
- Polycarbonate lenses with 99% UV protection.

803174 Blue mirror lenses

Hearing Protection

- Low pressure foam ear plugs for maximum comfort.
- Sold as corded pair.
- NRR 30.

803175 MaxLite® Foam Ear Plugs (pr)

Surveyor's Umbrella

- 63 in. spread.
- 8 ft., 3-section pole with baked aluminum enamel finish.

813640 Heavy-drill fabric umbrella; blue and yellow

813641 Water-resistant vinyl umbrella; solid color

Important!

Requirements for work area safety vary from state to state. Please consult your local authorities for details.



813629



813637 and 813638



813630



813640



813094 and 813095



803175

Safety Cones, Signs and Tape



813612

Traffic Cones

- High-intensity fluorescent red-orange.
- Polyvinyl chloride (PVC) for strength, durability.
- Weighted base for good stability.

813612 12-in. size cone

813618 18-in. size cone

813619 28-in. size cone



811050

Barricade Tape

811050 Caution tape, 1 roll; yellow, 3 mil, 1000 ft.

T-50 Economy Tripod Sign Stand

(Stand only, sign sold separately)

- NCHRP-350 approved with roll-up signs on low speed roadways
- Holds 36" or 48" signs
- Corrosion resistant tubular steel construction

813650 T-50 Economy Tripod Sign Stand



813651



813650



813652, 813653, 813654, 813655

Uniflex Screwlock Sign Stand

(Stand only, sign sold separately)

- NCHRP-350 Approved Design
- Single heavy-duty coil spring
- Holds 36" and 48" signs
- Kick-release adjustable legs for easy setup

813651 Uniflex Screwlock Sign Stand

Non-reflective SURVEY CREW Sign

(Sign only, stand sold separately)

- Non-reflective, High-Visibility Orange with rib supports
- Roll-up design
- Excellent for daytime use

813652 36" SURVEY CREW non-reflective sign

813653 48" SURVEY CREW non-reflective sign

Reflexite SURVEY CREW Sign

(Sign only, stand sold separately)

- Reflexite Super Bright™ Orange with Rib supports
- Roll-up design
- For all-around day and night visibility

813654 36" SURVEY CREW Reflexite sign

813655 48" SURVEY CREW Reflexite sign

Replacement Rib Sets for SURVEY CREW Signs

813656 Replacement Rib Set 36"

813657 Replacement Rib Set 48"



Stake and Carrying Bags

Hammerhead Carrying Cases and Bags

Tough Hammerhead bags to carry your stakes, flags and other marking supplies and to protect your valuable surveying equipment.

- 800050** Prism/laser pole bag (64 3/4 in. x 6in.)
- 800055** 19" stake bag
- 800056** 28" stake bag
- 800065** 36" lath bag
- 800066** 48" lath bag
- 800070** Single prism bag (7 1/2in. x 9in. x 5 3/4in.)
- 800071** Triple prism bag (12 1/2in. x 9 1/2in. x 5 1/2in.)
- 800072** Jumbo triple prism bag (12in. x 11 1/4in. x 7 3/4in.)
- 800073** Extra tall prism bag (17 3/4in. x 10in. x 5 3/4in.)
- 800080** Tripod bag

Stake Bags

- 818130** White canvas; 16 x 12 x 6 in.; 1 1/2 in. shoulder strap [SO]
- 818135** Orange cordura; 18 x 12 x 6 in. 1 1/2 in. shoulder strap

Leather Tool Pouch

- 818115** Leather tool pouch

Web Belt

- 812350** Web belt; fits 29-46 in. waist

Surveyor's 7-Pocket Tool Pouch

- 818116** 7-pocket tool pouch



800056



800072



818115



800071



818116



818135

Thermometers



800600



800612



800613



800615



800650



800672

Thermometers

- 800600** Max.-Min. Thermometer; Tenite case; magnet reset; mercury filled; range -40° to +120°F in 2° increments; non-refillable
- 800610** Pocket Thermometer; plastic case; 5 1/2 in. long; mercury filled; range -40° to +120°F in 2° increments; non-refillable
- 800612** Same as 800610, except refillable metal case
- 800613** Open Face Armor Case Thermometer; refillable metal case; 5 1/2 in. long; mercury filled; range: -40° to +120°F in 2° increments
- 800615** Glass Refill for 8006-12 metal case-style pocket thermometer and No. 800613 open face armor case thermometer
- 800611** Pocket Thermometer; plastic case; 5 1/2 in. long; mercury filled; range -40° to +50°C in 1° increments; non-refillable [SO]
- 800614** Pocket Thermometer; Same as 800611, except refillable metal case [SO]
- 800616** Glass refill for 800614 [SO]
- 800620** Same as 800610 except range: 0° to +220°F; non-refillable [SO]
- 800631** Sling Psychrometer (not shown); 6 1/2 in. mercury-filled thermometer, recessed and protected by black plastic tube-type case; outside of case acts as handle while operating; white-on-black scale markings; range +20 to +120°F in 1° increments [SO]

Bi-Therm Thermometers

As accurate as mercury thermometers, but without the need for safety precautions to avoid potential toxicity; measures temperature via a bi-metallic coil attached to an indicator needle.

- 800650** 1" dial; -40° to 160°F
- 800651** 1" dial; -40° to 50°C
- 800660** 1" dial; 0° to 220°F
- 800672** 2" dial; 50° to 550°F

WOA Precision Tribrach with Optical Plummet

Tribrachs accept Sokkia EDM systems, electronic and optical theodolites, as well as equipment and accessories. Base plate has standard 5/8 x 11 threads and circular level vial with a sensitivity of 10'/2 mm. Range of optical plummet: 1.5 to 50 ft. (0.5 to 15 m). Push-pull slide focus.

731135 WOA precision Tribrach w/ optical plummet

WAI Precision Tribrach

731134 Same as 731135, except without optical plummet.

731136 WA100 tribrach for MC Series

Tribrach Adapter with Rotatable Center

731138 Allows easy installation of instruments and accessories.

731139 Replacement Center only, 34 mm O.D.

Rotatable Tribrach Adapter

731142 5/8 x 11 male thread for attaching prisms and targets. Threaded portion attached to rotating plate for easy aiming. Plate has knurled edge and friction-stop.



731135



731134



731136

Tribrach Adapters

726150 AP41 Optical Plummet Tribrach Adapter; accepts all mount and target assemblies; has 60" level vial for accurate leveling and centering, adjustable to match height of optical axis above tribrach; use with 731134

726151 AP44 Tribrach Adapter; like 726150, but without optical plummet; use with 731135

731137 Adapts from 5/8 x 11 thread to Sokkia or other brand tribrach. Allows installation of Sokkia prisms or other 5/8 x 11 female-thread accessories into tribrach.



726150



731140



731138



731142



753665



751282



751056



751250



753675

Builder's Series Tripods

	<u>Height Open</u>	<u>Height Closed</u>	<u>Type of Head</u>	
753665	Small aluminum quick clamp 62in.	39in.	5/8 x 11 Flat	
753666	Medium aluminum quick clamp 66in.	41in.	5/8 x 11 Flat	
751282	Wood/fiberglass quick clamp 68in.	44in.	5/8 x 11 Flat	

Tri-Max® Tripods

	<u>Height Open</u>	<u>Height Closed</u>	<u>Weight</u>
751050	Standard Quick Clamp Tripod [SO] 71 in.	44 in.	14 lbs.
751052	Standard Screw Clamp Tripod [SO] 71 in.	44 in.	14 lbs.
751054	Tall Quick Clamp Tripod [SO] 91 in.	54 in.	16 lbs.
751056	Tall Screw Clamp Tripod [SO] 91 in.	54 in.	16 lbs.
751058	Fixed Leg Tripod [SO] 60 in.	—	14 lbs.

Professional Series Tripods

Sokkia Wide-Frame Wood Tripods:

- Our best tripod—all North American maple with metal hardware; no plastic.
- Self-adjusting hinges — no loosening or tightening.
- Durable nylon bushings for smooth operation.
- Tripod shoes with large spurs; hardened steel replaceable tips.
- Durable bright yellow or Sokkia green finish.
- Carrying handle.

		<u>Height Open</u>	<u>Height Closed</u>	<u>Type of Head</u>	<u>Weight</u>
751250	Green	72in.	45-3¼in.	5/8 x 11 Flat	14.5 lbs.
751252	Yellow	72in.	45-3¼in.	5/8 x 11 Flat	14.5 lbs.

Sokkia Wide-Frame Aluminum Tripods:

- Anodized finish in high-visibility International Orange and silver.
- Sling strap for easy hand- or shoulder-carrying.
- Extra-long shoes with large spurs for greater anchoring power.
- Hardened steel, replaceable tripod shoe tips.
- Convenient screw-style leg or quick release clamp assembly.

		<u>Height Open</u>	<u>Height Closed</u>	<u>Type of Head</u>	<u>Weight</u>
753385	3 1/2 x 8 Alum. Ext. Leg Tripod, quick release clamps [SO]	66 1/2 in.	40 in.	3 1/2 x 8 Flat	11.5 lbs.
753445	PSA1L Alum. Ext. Leg Tripod, quick release clamps	67 in.	41 in.	5/8 x 11 Domed	11.5 lbs.
753475	PSA1 Alum. Ext. Leg Tripod, screw clamps	67 in.	41 in.	5/8 x 11 Domed	11.5 lbs.
753645	PFA1L Alum. Ext. Leg Tripod, quick release clamps	67 in.	41 in.	5/8 x 11 Flat	11.5 lbs.
753675	PFA1 Alum. Ext. Leg Tripod, screw clamps	67 in.	41 in.	5/8 x 11 Flat	11.5 lbs.
753676	PFA2 Alum. Ext. Leg Tripod, quick clamps [SO]	66 1/2 in.	40 in.	1 3/8 x 13 Flat	11.5 lbs.



Instrument Power Supplies

Instrument Power Supplies

Instrument No.	Battery	Type	Stock No.	Charger	Type	Stock
SETx110MC SETx110M	BDC45	NiMH 12V	646045	CDC56	120VAC	646056
	(External Battery) BDC7	NiCd 12V (Requires EDC6 Cable)	730550	CDC7A	120VAC	730551
SETx030R SETx130R SETx220 SETx120	BDC35A	NiMH 6V	636135	CDC39	120VAC	636039
	(Optional Battery) BDC40A	NiCd 6V	636140	(Optional Charger) CDC41	12VDC (Cig. Adapt.)	636041
SETx110R SETx110 SETx100 PowerSET NET2100 GP3130R3 (inst.)	(External Battery) BDC12	NiCd 6V External (requires EDC3 Cable)	666102	CDC14A	120VAC	685505
SETx30R SETx10 SET300 SET500 SET600 NET1200 SDL30m	BDC46A	Li-Ion 6V	738046	CDC68	120VAC	738068
	(External Battery) BDC12	NiCd 6V External (requires EDC3 Cable)	666102	CDC14A	120VAC	685505
SETXL	BDC25A	NiCd 6V	646002	CDC27	120VAC (1 hr.)	646004
SETxBII (New Models)		(Requires Charging Adapter EDC19)	646003			
NET2B SETxF SETxE				(Optional Chargers) CDC11	120VAC (12 hr.)	685501
DTxE DTxF				CDC32	12VDC (Cig. Adapt.)	685520
SETxBII (Old Models) SETxB	BDC18	NiCd 6V (Requires Charging Adapter EDC11)	665101 666000	CDC11	120VAC (12 hr.)	685501
DTx EZS20/A EZS21/A	BDC21 (Optional Battery) BDC25A	AA-cell Battery Holder NiCd 6V (Requires Charging Adapter EDC19)	685021 646002 646003	CDC27	120VAC (1 hr.)	646004
LP30 LP31 LP31A LP30A	BDC38 (Optional Battery) BDC39	D-cell Battery Holder NiCd 6V	740138 740139	CDC49A	120VAC	740149
EL40 EL40HV MP40	BDC41 (Optional Battery) BDC40	D-cell Battery Holder NiCd Battery	742140	TRG-CDC42	120VAC	742142
EL400 EL400HV MP400	TRG-BDC410 (Optional Battery) TRG-BDC400	D-cell Battery Holder NiCd Battery	742141 742144	TRG-CDC42	120VAC	742145

Instrument Optical Accessories



Optical Accessories

Instrument	Solar Filter	Diagonal Eyepiece	30X Eyepiece	40X Eyepiece	Auto Collimating Eyepiece	Optical Micrometer, Metric	Optical Micrometer, Feet
SETx110MC	OF3A - 732951						
SETx110M	OF3A - 732951						
NET2100	OF3A - 732951	DE17A - 731145					
SETx030R	OF3A - 732951	DE25 - 731123					
SETx130R	OF3A - 732951	DE25 - 731123					
SETx220	OF3A - 732951	DE25 - 731123					
SETx120	OF3A - 732951	DE25 - 731123					
SETx110R	OF3A - 732951	DE25 - 731123					
SETx110	OF3A - 732951	DE25 - 731123					
SETx100	OF3A - 732951	DE25 - 731123					
PowerSET	OF3A - 732951	DE25 - 731123					
SET230R/330R/530R	OF3A - 732951	DE25 - 731123					
SET630R		DE25 - 731123					
SET210/310/510	OF3A - 732951	DE25 - 731123					
SET610		DE25 - 731123	EL6 - 732932				
SET300	OF3A - 732951	DE25 - 731123					
SET500	OF3A - 732951	DE25 - 731123					
SET600		DE25 - 731123					
NET1200		DE25 - 731123					
SET2BII/3BII	OF2A - 732950	DE18 - 731118					
SET4BII	OF1A - 732949	DE18 - 731118					
SET5W	OF1A - 732949	DE21 - 731146					
SET5F	OF1A - 732949	DE21 - 731146					
SET6F/6E		DE21 - 731146					
DT4F		DE17A - 731145			ACE1 - 731132		
DT510/A		DE25 - 731123			ACE1 - 731132		
DT500/A		DE25 - 731123			ACE1 - 731132		
DT610		DE25 - 731123	EL6 - 732932		ACE1 - 731132		
DT600		DE25 - 731123	EL6 - 732932		ACE1 - 731132		
DT5/A		DE17A - 731145			ACE1 - 731132		
DT6		DE21 - 731146	EL6 - 732932		ACE1 - 731132		
B1/B1C						0m1 - 737215	0m1F - 737214
B20		DE16 - 731109		EL5 - 732946	ACE1 - 731132	0m5 - 737221	0m5F - 737220
B21		DE22 - 731147				0m5 - 737221	0m5F - 737220
C300 Series		DE22 - 731147					

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