

SOKKIA

Series30RK

**Reflectorless Total Stations
with illuminated alphanumeric keypad**



**30cm to 350m / 1ft. to 1,140ft.
Reflectorless Range***

**Ultimate Performance in a
Compact and User-Friendly
Design**

* Class 3R models



Laser beam image is simulated.
The photo depicts a Series30RK with optional Guide Light Unit.

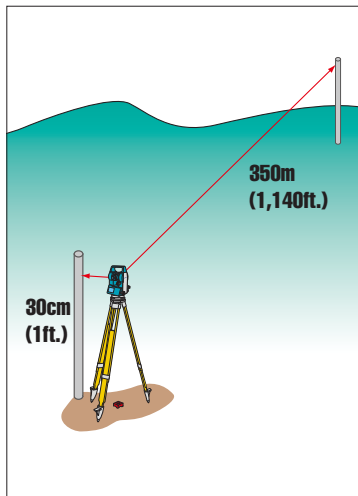


High-Precision Measurement Using RED-tech Technology

Flexible, accurate measurements with RED-tech II EDM

Survey-grade accuracy from 30cm/1ft to 350m/1,140ft.*

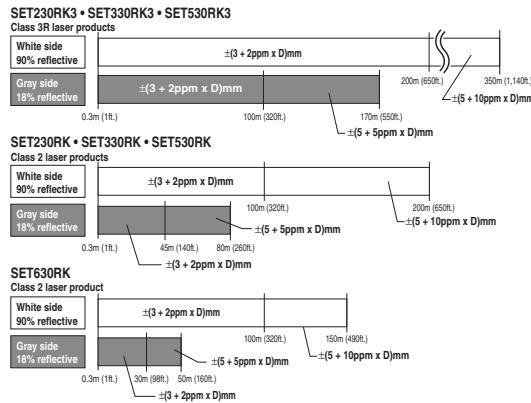
RED-tech reflectorless EDMs are acclaimed for high-precision pinpoint accuracy and the flexibility to measure from distances as close as 30cm (1ft.). *Class 3R laser models



350m or 200m—choose the range you need

The Class 3R laser models provide reflectorless measurement up to 350m (1,140 ft.), while the Class 2 laser models cover a range up to 200m (650ft.). All models offer measurement from as close as 30cm (1ft.) for reflectorless measurement over a tremendous range of distances, while assuring survey-grade accuracy.

Reflectorless measurement range and accuracy with a Kodak Gray Card

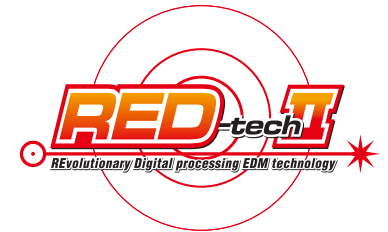
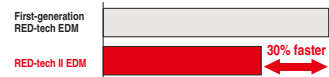


High-speed measurement now over 30% faster*

Measurement is fast at every 0.9 second and just 1.7 seconds for the initial measurement (in fine mode) for speed gains of over 30%.

* Compared with first-generation RED-tech EDM models.

Distance measurement speed



The proven technology behind the RED-tech II EDM

The RED-tech II EDM is a high-performance phase-comparison measuring system that set the standard for fast, flexible and stable distance measurement of a variety of objects under conditions difficult or impossible with other EDMs.

Phase-comparison measurement

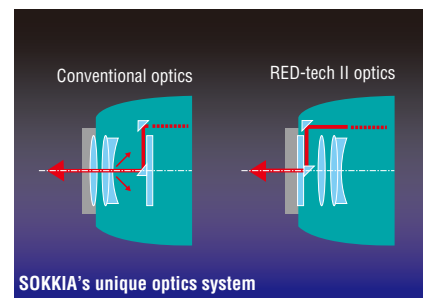
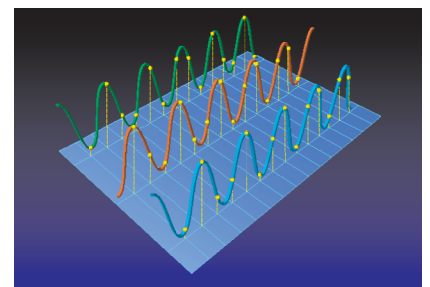
RED-tech II EDM uses phase comparison technology, which provides notable advantages in accuracy compared with EDMs using pulse measurement methods. Combined with SOKKIA's digital processing technology and unique optics, RED-tech II EDMs set the standard for highly accurate reflectorless measurement.

Digital signal processing

RED-tech II EDM simultaneously samples measuring signals in three different frequencies and calculates distances using advanced digital signal processing software. A calculation method best suited to the condition of the measuring signals is selected, and receiving signals are amplified to ensure a high level of reliability. Thanks to SOKKIA's advanced signal processing technology, RED-tech II EDMs provide a combination of superior accuracy, speed and efficiency.

High-precision optics

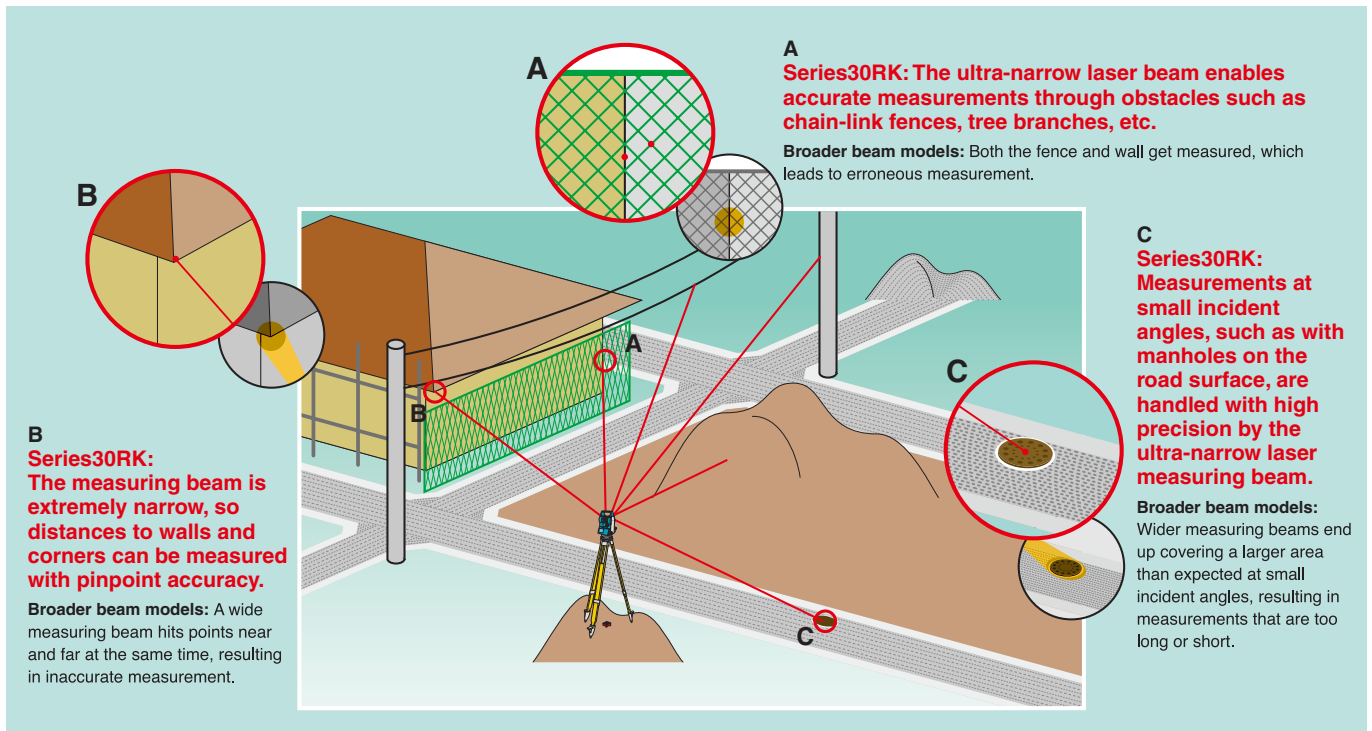
SOKKIA has further refined its traditional optics system, which emits measuring light from the objective lens center and receives the returning light along its periphery. With enhanced optics that provide the ideal light path, RED-tech II EDM dramatically increases reliability by emitting the laser beam from in front of the objective lens to eliminate errors caused by internal reflection. Its highly tunable optical components ensure that only the necessary returning light is directed to the receiver for faster, more efficient measurement. What's more, the telescope provides an extremely bright and sharp view, and its compact size makes sighting easier than ever. The combination of one light source and one set of optics allows the RED-tech EDM to emit an ultra-narrow visible laser beam along the same axis as the telescope's sighting axis to enable accurate pointing using a distinct laser spot, pinpoint reflectorless measurement, as well as long-range distance measurement using prisms or reflective sheet targets.



SOKKIA's unique optics system



■ Ultra-narrow visible laser for pinpoint accuracy



The Series30RK employs an ultra small-diameter visible laser to obtain measurements with pinpoint accuracy. Fine objects, as well as the corners of walls and other structures, can be measured precisely. You can also make accurate measurements through obstacles such as chain-link fences and tree branches.



■ Laser-pointer function

The visible laser beam can be conveniently used as a laser pointer for interior leveling work, vertical alignment, setting out, and other tasks.

■ Long-distance measurement with reflectors

Measure up to 5,000m (16,400ft.)* with an accuracy of $\pm(2+2\text{ppm} \times D)\text{mm}$ using a single AP prism. Reflective sheet targets can be used to measure up to 500m (1,640ft.)** with $\pm(3+2\text{ppm} \times D)\text{mm}$ precision. Choose from SOKKIA's wide selection of sheet targets to suit your needs. Rotating pin-pole targets, two-point target for measuring hidden points, and many other innovative reflective targets are available.

* In good weather conditions except SET630RK. ** When using RS90N-K.



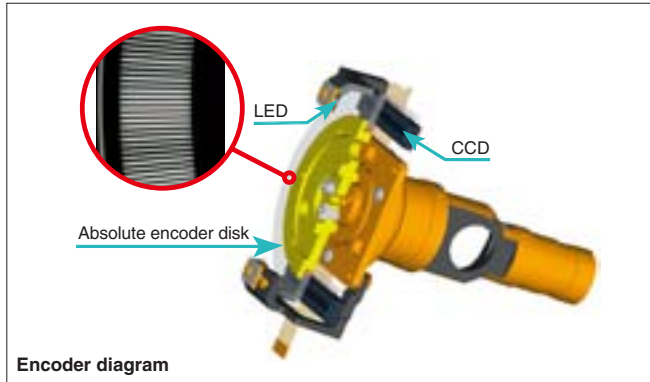
In reflective sheet and prism modes, maximum laser output is reduced to 0.22W, the equivalent of a Class 1 laser. The Series30RK includes a telescope safety filter to protect your eye if you sight a prism or reflective sheet in reflectorless mode.





A Tough, Heavy-Duty Partner That Delivers Exceptional Operability and Ease-of-Use

■ SOKKIA's original absolute encoder



Series30RK total stations are equipped with absolute encoders based on SOKKIA's digital level RAB (Random Bi-directional) Code technology which provide high stability and reliability. There is no need for zero indexing when starting a job meaning you can go from the moment you turn on the power. Work efficiency is further increased by immediate azimuth display.

■ Highest Level of Robustness

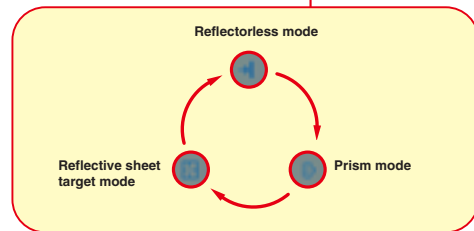
IP 66 The Series30RK complies with IEC (International Electrotechnical Commission) environmental standard IP66 (IEC 60529). The first digit following IP indicates the level of protection against the ingress of solid foreign objects, of which 6 is the highest grade—dust-tight, meaning no dust can enter the unit. The second digit indicates the level of protection against the ingress of water. Grade 6 indicates protection against powerful water jets from any direction.

-30°C/-22°F Working in extreme cold is not a problem. With the Low Temperature Models (factory option) of the SET230RK/RK3 and SET530RK/RK3, the operating temperature range of the Series30RK is extended to -30°C (-22°F). These models feature newly enhanced mechanical structures as well as the latest LCD and lubricant developments to ensure the same ultra-smooth operation in extremely cold climates as under high temperatures. To ensure trouble-free, long-term operation even in the severe cold, a new external battery system has also been developed. The new external battery BDC57 utilizes a state-of-the-art battery cell that was first developed for use in hybrid motor cars, and new power cables are as flexible in sub-zero conditions as at normal room temperature.



■ Check data and status at a glance

The built-in control panel has an easy-to-view LCD screen with 192 x 80 pixel resolution. Key information, such as EDM mode (reflectorless, prism, or reflective sheet target) and laser beam status, can be checked at a glance. And equipped with a temperature sensor, the LCD maintains optimal contrast and visibility in any temperature.



■ One-touch target selection

There are no complicated operations when it comes to selecting targets. The Series30RK total stations let you switch between reflectorless, prism, and reflective sheet target with the push of a button. The selected target is displayed on the operation panel for easy confirmation.

■ Triple-axis compensation for high reliability

Vertical and horizontal angles are compensated for by a dual-axis compensator that detects the tilt of the total station in two directions. In addition, a collimation function corrects the deviation of the telescope's mechanical axis. Working together, these features offer maximum reliability with angle measurements.

■ Password function for security

The Series30RK includes a password-protection function for security purposes. You can assign your own password to the instrument to prevent unauthorized use.



■ User-friendly 10-key keypad plus softkeys

The control panel features a 10-key alphanumeric keypad for convenient manual input of data. And for further productivity and ease of use, the control panel also includes four softkeys (F1 – F4) that you can customize to perform functions of your choice. What's more, all keys are backlit and glow brightly, so you can see exactly what you are doing—even when working in low light conditions.



■ SF14 wireless keyboard

This wireless keyboard has a total of 37 keys (including alphanumeric keys, softkeys, and measurement controls), to enable quick and easy data entry of point names and coordinate values. Protection against dust and water is another advantage, as you can use the keyboard without worry in the rain or at a dusty construction site. (IP44 compliant)



SF14 is an optional accessory. Not available for SET630RK.

■ Large internal memory

The Series30RK can store approximately 10,000 data points, including known points and other information. To facilitate concurrent use at different work sites, data may be sorted into 10 different job files.

■ CompactFlash card unit



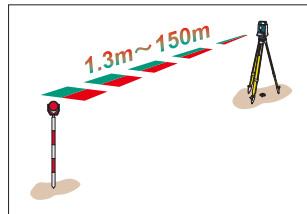
A card unit for commercially available CompactFlash memory cards can be added as a factory option. 576,000 points (114 files, each holding 4,000 points) can be stored with an 64MB memory card. Cards up to 512MB are supported.

The CompactFlash card unit is a factory option. Not available for SET630RK.

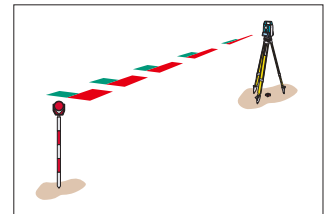
■ Guide Light Unit GDL1



The Guide Light Unit GDL1 boosts efficiency of setting-out measurements. Its guide light is composed of two lights of different colors that are emitted from one aperture. When you are on the left side, the green light is visible, and when you are on the right side, the red light can be seen. When green and red are flashing back and forth, you are on the telescope sighting direction.



The light may be used up to a range of 150m (490ft.).



A special flashing pattern is also included to assist users with color weakness.

Guide Light Unit GDL1	Green LED (524nm) and Red LED (630nm) (Class 1 LED)
Visible range	1.3m to 150m (4.3ft. to 490ft.)
Visible width	Horizontal & vertical: more than $\pm 4^\circ$; approx. 7m at 100m (23ft. at 320ft.)
Center resolution	Within 4"; approx. 12cm at 100m (4.7in. at 320ft.)

The Guide Light Unit cannot be used simultaneously with the laser pointer function. The Guide Light Unit is a factory option.

■ Compact lithium-ion battery

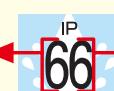


Take 11.5 hours of continuous angle and distance measurements with the Series30RK's rechargeable lithium-ion battery. Unlike Ni-Cd cells, the Series30RK's battery can be fully recharged at any time, without diminishing its energy capacity. The BDC46B battery is commonly used for SOKKIA's Series30R/Series10 total stations, digital levels, and other equipment.



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

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



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

*1 Factory option for all models *2 Option for all models except SET630RK *3 Factory option for all models except SET630RK



Packed with Versatile Functions for High Work Efficiency at Diverse Sites

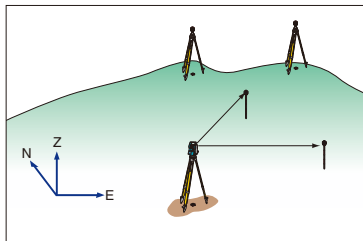
■ Missing Line Measurement (MLM)

At the touch of a key, the Series30RK measures horizontal distance, slope distance, height difference and percentage of slope between two points.

■ Remote Elevation Measurement (REM)

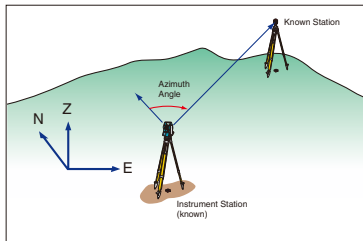
The Series30RK easily determines the height of a point where distance cannot be measured directly. Sight a point either directly above or directly below the target point, and then sight the target point.

■ 3-D Coordinate Measurement



The Series30RK calculates 3-D coordinate values of measuring points and displays them either as N, E, Z or E, N, Z.

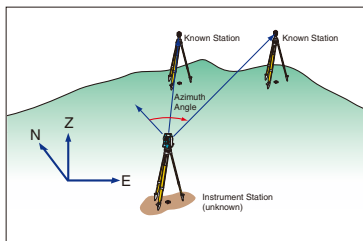
■ Automatic Azimuth Angle Setting



The Series30RK can automatically set the horizontal angle to the azimuth of a back sight by using the coordinates of the instrument station and the back sight point.

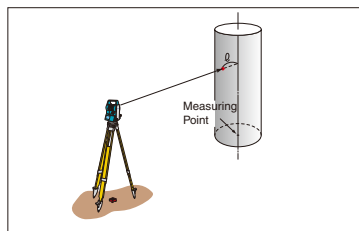
■ Resection

The Series30RK can determine the azimuth and coordinates of an unknown instrument station with 2 to 10 known points. When using two points, measure both angles and distances. When using three or more points, the distance is not required. Station elevation from known reference points (up to 10



points) can also be calculated and each deviation of multiple reference points is displayed. If a bad point is selected it can be recalculated, re-observed or replaced with a new point.

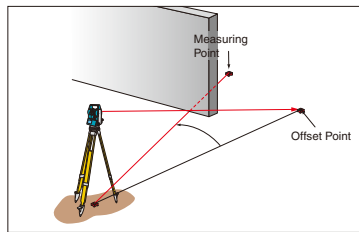
■ Offset/Distance



The Series30RK calculates the angles and distance, or the coordinates of the measuring point by inputting the distance and direction between the measuring point and the offset point.

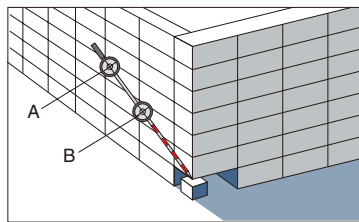
■ Offset/Angle

The Series30RK automatically calculates the position of measuring points. First, measure a point on either side of the measuring point at the same distance from the Series30RK instrument. Then sight the measuring point.



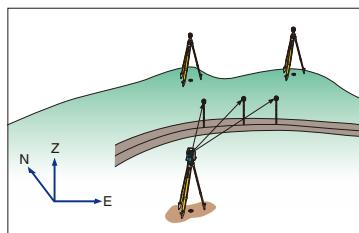
■ Two-Distance Offset

With the use of a 2RT500-K two-point target, the Series30RK can measure hidden points easily and efficiently. Set the two-point target on the measuring point (the target does not have to be perpendicular), measure targets A and B, and



input the length between target B and the measuring point. The Series30RK calculates the position of the measuring point in angles and distance, or in coordinate values.

■ Setting Out



The Series30RK performs three-dimensional setting out with N, E and Z or E, N and Z coordinates. Directions and distances to the setting out position are indicated on the screen.

■ Set-out Line

The Set-out line program is used for setting out and checking alignment of curb lines, construction boards and grades of pipes. A baseline or an offset from baseline can be defined.

When calculating the measuring point, it's possible to calculate and use the scaled down coefficient of the distance and surveyed value that was calculated using the known coordinate values of 2 points.

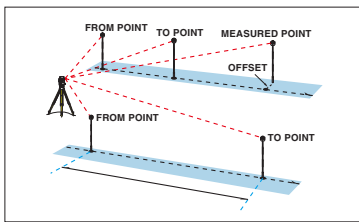
■ Set Out Arc

The Set Out Arc program provides a generalized arc calculator to allow the definition of curves from almost any combination of parameters. Points along the arc can be coordinated and directly set out.

■ Point Projection

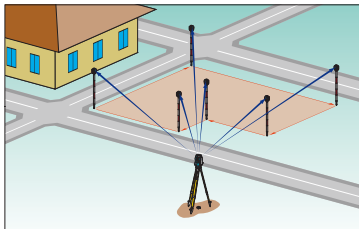
This program projects a point onto a line. It calculates the distance and offset of the point relative to the specified baseline, and it computes the coordinates of the intersection point, which can then be directly set out. Elevations are interpolated where possible.

When calculating the measuring point, it's possible to calculate and use the scaled down coefficient of the distance and surveyed value that was calculated using the known coordinate values of 2 points.



Set-out Line and Point Projection

■ Area Calculation



The Series30RK can use measured points or stored data—up to 50 points in total—to calculate an area. Area calculations are made with 3D coordinates, so even sloped surfaces can be measured with ease and precision.

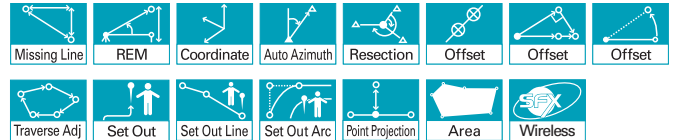
■ The ideal partner for data collectors

The Series30RK's two-way communication capability brings out the full functionality of external data collectors. All operations, except for sighting, can be performed with a data collector.

Bluetooth®

The Series30RK incorporates *Bluetooth®* wireless technology as a factory option to enable wireless communication with data collectors. Please consult your local SOKKIA representative for option availability.

Bluetooth wireless technology is also available for the low temperature model of Series30RK.



Standard accessories

- BDC46B rechargeable battery: 2 pcs. (SET630RK: 1 pc.) •
- CDC68 quick charger with EDC113A/113B/113C power cable •
- CP7 tubular compass • Lens hood • Lens cap • Plumb bob •
- Tool kit • Wiping cloth • Operator's manual • Carrying case and shoulder strap

Optional accessories

- SF14 wireless keyboard* • GDL1 guide light unit (factory option) •
- CF card unit* (factory option) • BDC57 external Ni-MH battery (low-temperature compatible)*, EDC3 power cable for BDC57 (2m, low-temperature compatible)*, EDC7A power cable for BDC57 (0.5m, low-temperature compatible)*, CDC14 battery charger for BDC57* • EDC2A AC power adapter (100 to 240V)* •
- EDC14 external battery adapter*, EDC5 car battery cable for EDC14*, EDC4 car cigarette lighter cable for EDC14* • OF3A solar filter • DE25 diagonal eyepiece • EL7 eyepiece (40x)* • EL6 eyepiece for SET630R (30x) • DOC46 printer cable • DOC25 (25 pins, male), DOC26 (25 pins, female), DOC 27 (9 pins, female), DOC1 (w/o connector) interface cables • LAP1 laser plummet • ACE5 auto-collimation eyepiece • 20"/2mm plate level for SET230R/230R3 (factory option) • SC189 back pack

* Except SET630RK

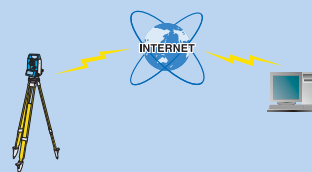
For more information, please consult your local sales representative.



Sokkia Field-info Xpress

Instantaneous data transfer between any worksite and your office.

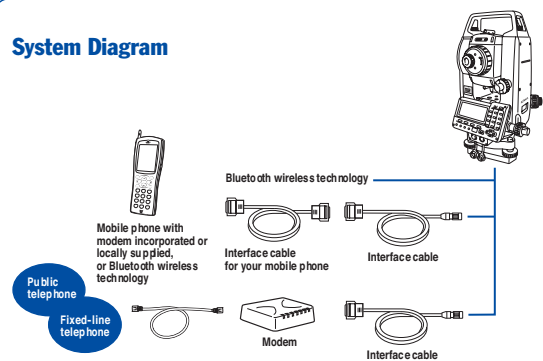
The Series30RK can send surveyed data to a specified e-mail address or FTP server. It can also receive coordinate data for setting-out from your office computer or FTP server.



Just connect a mobile phone (and modem, if necessary) to the Series30RK using the appropriate cables or *Bluetooth* wireless technology, establish an Internet connection, and select the job files. Multiple job files can be sent out simultaneously. All SFX functions can be performed via the Series30RK's operation panel.

Password protection is available to prevent unauthorized use.

System Diagram



SFX requires connectivity using a mobile phone with a service provider capable of e-mail data transfer to an external source, as well as an active e-mail account and/or FTP server. Consult your local telecoms operator for proper equipment and connectivity requirements.

Series 30RK REFLECTORLESS TOTAL STATIONS

SPECIFICATIONS

SET230RK3 · SET330RK3 · SET530RK3 · SET230RK · SET330RK · SET530RK · SET630RK

Model	SET230RK3	SET330RK3	SET530RK3	SET230RK	SET330RK	SET530RK	SET630RK
Laser class*1	Class 3R Laser Product			Class 2 Laser Product			
Telescope	Fully transiting, coaxial sighting and distance measuring optics						
Magnification / Resolving power	30x / 2.5"						26x / 3.5"
Others	Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (EDM 48mm (1.9in.)), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels						
Angle measurement	Absolute encoder scanning, both circles adopt diametrical detection						
Unit / Display resolutions	Degree / Gon / Mil, selectable / 1° / 5', 0.2 / 1mgon, 0.005 / 0.02mil, selectable						
Accuracy (ISO17123-3:2001)	2" / 0.6mg / 0.01mil	3" / 1mg / 0.015mil	5" / 1.5mg / 0.025mil	2" / 0.6mg / 0.01mil	3" / 1mg / 0.015mil	5" / 1.5mg / 0.025mil	6" / 1.9mg / 0.03mil
Measuring time	0.5s or less, continuous						
Measurement mode	H: Clockwise / Counterclockwise, selectable; 0 set, Hold, Angle input, Repetition, available V: Zenith 0 / Horizontal 0 / Horizontal 0± / Slope in %, selectable						
Automatic dual-axis compensator	Dual-axis liquid tilt sensor, Working range: ±3' (±55mg)						
Collimation compensation	On / Off, selectable						
Fine motion screws	2-speed motion		1-speed motion	2-speed motion		1-speed motion	
Distance measurement	Modulated laser, phase comparison method with red laser diode						
Laser output	Reflectorless mode: Class 3R (max. 5mW) Prism/Sheet mode: Class 1 equivalent (max. 0.22mW)			Reflectorless mode: Class 2 (max. 0.99mW) Prism/Sheet mode: Class 1 equivalent (max. 0.22mW)			
Unit / Display resolutions	meters / feet / feet-inches, selectable / Fine, Rapid single: 0.001m / 0.01ft. / 1/8in. Tracking: 0.01m / 0.1ft. / 1/2in.						
Measuring range (slope distance)	Reflectorless*2 (with Kodak Gray Card)	0.3 to 350m (1 to 1,140ft.) (White side, 90% reflective) 0.3 to 170m (1 to 550ft.) (Gray side, 18% reflective)		0.3 to 200m (1 to 650ft.) (White side, 90% reflective) 0.3 to 80m (1 to 260ft.) (Gray side, 18% reflective)		0.3 to 150m (490ft.) (white side, 90% reflective)	
	With reflective sheet target	RS90N-K: 1.3 to 500m (1,640ft.), RS50N-K: 1.3 to 300m (980ft.), RS10N-K: 1.3 to 100m (320ft.)					
	With mini prisms	CP01: 1.3 to 800m (2,620ft.), OR1PA: 1.3 to 500m (1,640ft.)					
	With 1 AP prism	A ³ 1.3 to 4,000m (13,120ft.)					1.3 to 3,000m (9,840ft.)
		G ⁴ 1.3 to 5,000m (16,400ft.)					1.3 to 4,000m (13,120ft.)
	With 3 AP prisms	A ³ to 5,000m (16,400ft.)					to 4,000m (13,120ft.)
		G ⁴ to 6,000m (19,680ft.)					to 5,000m (16,400ft.)
Accuracy (D-measuring distance, unit: mm)	Reflectorless*2/+5 (Fine mode)	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 200m (over 320 to 650ft.): ±(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	
	Reflectorless*2/+5 (Rapid single mode)	0.3 to 200m (1 to 650ft.): ±(6 + 2ppm x D)mm Over 200 to 350m (over 650 to 1,140ft.): ±(8 + 10ppm x D)mm		0.3 to 100m (1 to 320ft.): ±(6 + 2ppm x D)mm Over 100 to 200m (over 320 to 650ft.): ±(8 + 10ppm x D)mm		0.3 to 100m (1 to 320ft.): ±(6 + 2ppm x D)mm Over 100 to 150m (over 320 to 490ft.): ±(8 + 10ppm x D)mm	
	With reflective sheet target*6	Fine: ±(3 + 2ppm x D)mm, Rapid single: ±(6 + 2ppm x D)mm					
	With AP prism	Fine: ±(2 + 2ppm x D)mm, Rapid single: ±(5 + 2ppm x D)mm					
Measuring time	Fine mode / Rapid single / Tracking	Fine repeat: Every 0.9s (initial 1.7s) / Rapid single: 1.4s / Tracking: Every 0.3s (initial 1.4s)					
Measuring mode		Fine (single / repeat / average), Rapid (single), Tracking					
Atmospheric correction / Prism constant correction		Temperature / Pressure / ppm input, available / -99 to +99mm (1mm steps), 0 fixed in reflectorless mode					
Refraction & earth-curvature correction		Yes (K=0.142 / 0.20) / No, selectable					
Data storage and transfer							
Data storage	Internal memory	Approx. 10,000 points					
	CF memory card unit	Factory option, the 64MB CF card stores approx. 576,000-point data					n/a
Scale factor setting / Sea level correction		0.5 to 2.0 / Yes / No, selectable					
Interface		Asynchronous serial RS-232C compatible, Baud rate 1,200 to 38,400bps; Bluetooth Class 2 wireless communication is a factory option					
Printer output		Centronics compatible (with optional DOC46 printer cable)					
General							
Display / Keyboard		Alphanumeric/graphic dot matrix LCD, 192 x 80 dots, with backlight, with contrast adjustment / 27 keys with backlight					
Control panel location		On both faces					On one face
Wireless keyboard SF14		Optional					n/a
Laser-pointer function		ON (auto off in 5 minutes) / OFF, selectable (Does not work simultaneously with the Guide Light)					
Guide light GDL1		Factory option					
Sensitivity of levels	Plate level	30" / 2mm*7	30" / 2mm	30" / 2mm*7	30" / 2mm	40" / 2mm	
	Circular / Graphic	Circular level: 10" / 2mm / Graphic LCD level: 3" / outer circle					
Optical plummet / Tribrach		Image: Erect, Magnification: 3x, Minimum focus: 0.3m (0.98ft.) / Detachable					
Dust and water protection / Operating temperature		Conforms to IP66 (IEC 60529) / -20 to +50°C (-4 to +122°F)					
Instrument height		236mm (9.3in.) from tribrach bottom					
Size with handle and battery		W 165 x D 180 x H 341 mm (W 6.5 x D 7.1 x H 13.5 in.)					W 165 x D 173 x H 341 mm (W 6.5 x D 6.8 x H 13.5 in.)
Weight with handle and battery		Approx. 5.5kg (12.2 lb.)					Approx. 5.4kg (11.8 lb.)
Power supply		7.2V DC					
BDC46B detachable Li-Ion rechargeable battery		2 BDC46B are included					1 BDC46B is included.
	Continuous use per battery at 25°C (77°F)	Approx. 7 hours (800 points) for single measurement every 30s					
	Recharging time at 25°C (77°F)	Approx. 11.5 hours for angle measurement only Within 2.5 hours with CDC68 standard quick charger					
BDC57 external Ni-MH battery (optional)							
	Continuous use at 25°C (77°F)	Approx. 27 hours for single measurement every 30s Approx. 36 hours for angle measurement only					n/a
Automatic power cut-off / Resume function		Auto-off time is selectable from 30, 15, 10, 5 minutes or none / On / Off selectable (backed up for approx. 1 week)					

*1 IEC 60825-1:2001 / FDA CDRH 21 CFR Part 1040.10 and 1040.11 (Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No.50, dated July 26, 2001.)

*2 Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *3 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.

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

*6 When the beam's incident angle is within ±30° up and down / right and left in relation to the surface of the target. *7 20" / 2mm plate level is available as a factory option.



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