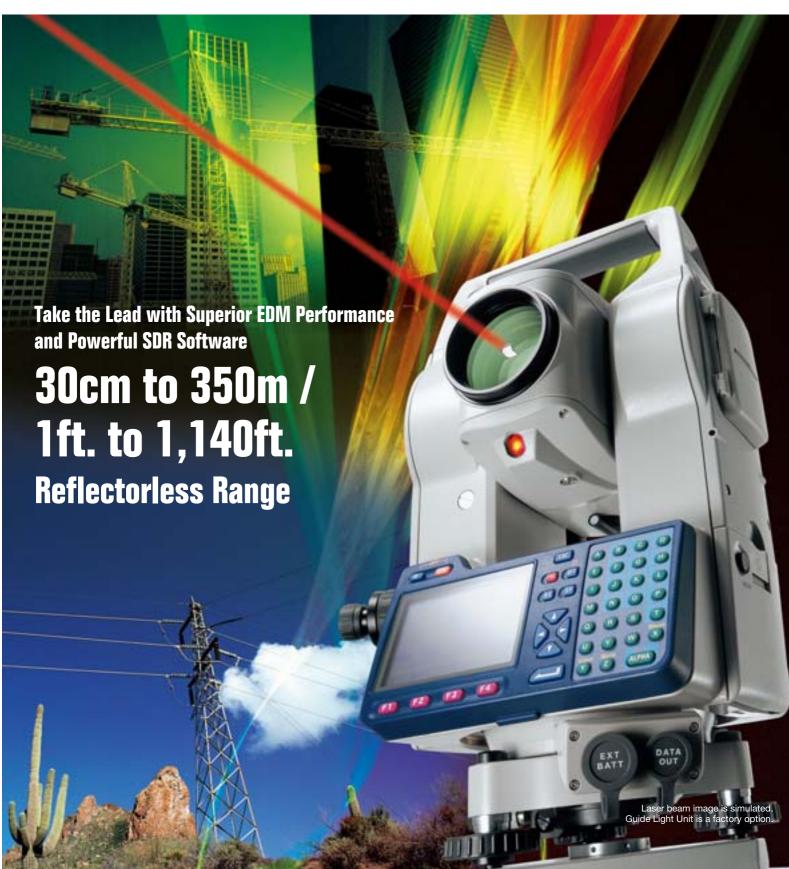


Series 030R

Reflectorless Total Stations with Integrated Data Collectors











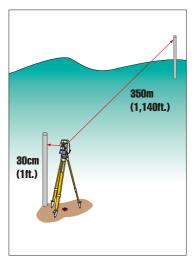
High-Precision Measure

■ 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

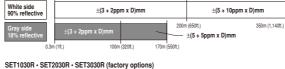


■ 350m or 200m—choose the range you need

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 SET1030R3 • SET2030R3 • SET3030R3 (standard models)

Class 3R laser products



Class 2 laser products



High-speed measurement now over 30% faster*

Measurement is fast at every 0.9 second and just 2.2 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

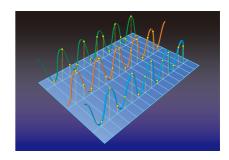
RED-tech II EDM simultaneously samples measuring signals in three different frequencies and calculates distances using advanced digital signal processing software. A calculation method best suited to the condition of the measuring signals is selected, and receiving signals are amplified to ensure a high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

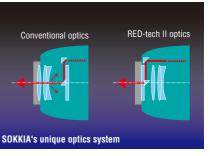
High-precision optics

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.

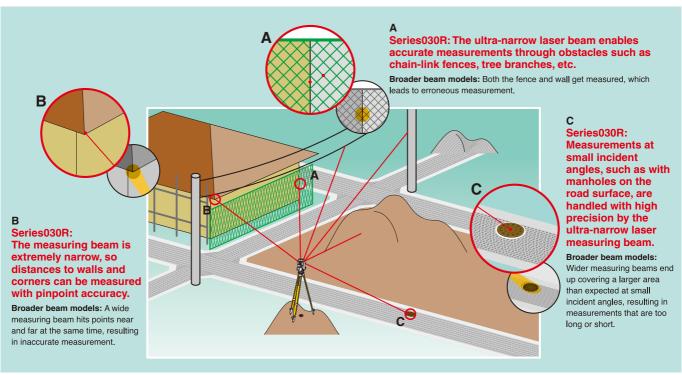
The combination of one light source and one set of optics allows the RED-tech EDM to emit an ultranarrow visible laser beam along the same axis as the telescope's sighting axis to enable accurate pointing using a distinct laser spot, pinpoint reflectorless measurement, as well as long-range distance measurement using prisms or reflective sheet targets.





ment using RED-tech Technology

■ Ultra-narrow visible laser for pinpoint accuracy



The Series030R 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+2ppm x D)mm using a single AP prism. Reflective sheet targets can be used to measure up to 500m (1,640ft.)** with \pm (3+2ppm x D)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. ** 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 Series030R includes a telescope safety filter to protect your eye if you sight a prism or reflective sheet in reflectorless mode.

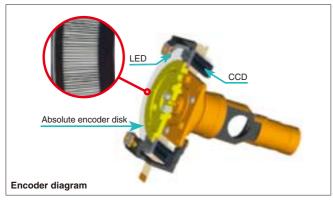






Enhanced Hardware Relia

■ SOKKIA's original absolute encoders



Series030R 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.

■ 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 Series030R provides a password-protection function for security purposes. You can assign your own password to the instrument to prevent unauthorized use.

■ Large internal memory

The large internal memory can store approx. 8,800 data points in SDR33 format. Its multiple job file structure allows you to create an unlimited number of job files.

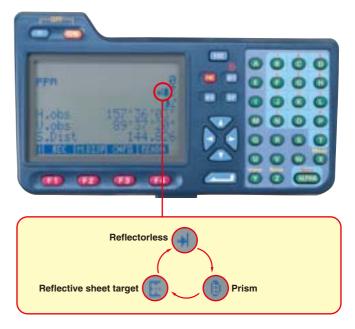
■ CompactFlash card drive



A card drive for commercially available CF memory cards (Type 1) is included as a standard feature. With this card drive, your memory capacity becomes virtually unlimited. Approx. 608,000 data points can be stored on an 64MB card. Cards up to 512MB are supported.

■ Check data and status at a glance

Each Series030R total station has a built-in control panel on both faces. These control panels have a clearly visible 8-line LCD screen that lets you quickly check EDM mode (reflectorless, prism, or reflective sheet target), laser beam mode, guide light function, and more.



■ Easy target selection

Selecting a target is amazingly simple. During basic mode operation, you can switch between reflectorless, prism, and reflective sheet target modes with the push of a button, and the icon of the selected target is displayed on the LCD screen for easy confirmation.

■ Full alphanumeric keyboard with easy-to-use softkeys

Alphanumeric keys are laid out for the fastest possible operation. Entering job names, point numbers, point names, coordinate values, and processing surveying data can be done quickly and efficiently. Furthermore, four easy-to-use softkeys are included to simplify measurement.

■ Superior environmental protection

Featuring advanced protection against dust and water, the Series030R total stations are able to withstand harsh environmental conditions (IP64 compliant).



bility and Increased Productivity



■ SF14 wireless keyboard



The SF14 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.

Because all key operations can be performed with this wireless keyboard, you won't need to

touch the total station after it's been aimed at the target. 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). The SF14 wireless keyboard can also be used with Series30R and Series10 total stations

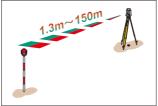
SF14 is an optional accessory.

■ Guide Light Unit GDL2





The Guide Light Unit GDL2 boosts efficiency with setting-out jobs. Its guide light is composed of two lights of different colors that are emitted from one aperture. From the left side, you see only a green light; from the right, only a red light. And when you see green and red flashing back and forth simultaneously, that means you are on the telescope sighting direction. The GDL2 has a range of up to 150m (490ft.). A special flashing pattern is also included to assist users with color weakness.





The light may be used up to a range of

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

Guide Light Unit GDL2	Green LED (524nm) and Red LED (630nm) (IEC Class 1 LED)
Visible range	1.3m to 150m (4.3ft. to 490ft.)
Visible width	Horizontal & vertical: more than ±4°; 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.

■ FOF sensors

SOKKIA's original and extremely compact FOF (Fiber made of Optical Filter material) sensors are mounted on two sides of Series030R total stations for communication with the optional SF14 wireless keyboard. These sensors are extremely resistant to light interference, and have a wide signal reception range to allow comfortable use of the keyboard.



FOF sensor

■ Two battery types: Ni-MH and Ni-Cd

The BDC35A Ni-MH battery* gives you 6 hours of continuous angle and distance measurement, and the CDC70 charger features a builtin refresh function to eliminate memory effect. The optional Ni-Cd battery (BDC40A) offers longer operation in low temperatures.

* Standard equipment.

Optional accessories

SF14 wireless keyboard • Guide Light Unit GDL2 (factory option) • EDC115 car cigarette lighter cable for CDC70 • BDC40A Ni-Cd battery • BDC57 Ni-MH external battery • EDC3A power cable for BDC57 (2m), EDC7A power cable for BDC57 (0.5m), CDC14 battery charger for BDC57 • EDC2A AC adaptor (100 to 240V) • OF3A solar filter • DE25 diagonal eyepiece • EL7 40x eyepiece • DOC46 printer cable • DOC25 (25 pins, male), DOC26 (25 pins, female), DOC27 (9 pins, female), DOC1 (w/o connector) interface cables • ACE5 auto-collimation eyepiece • 20"/2mm plate level for SET2030R/2030R3 (factory option)













































Powerful SDR Software Wireless Long-Distance

■ Comprehensive Software Suite "Expert"

To maximize job efficiency in the field, the Series030R total stations come fully loaded with Expert, the comprehensive data collection software from SOKKIA. Expert provides an integrated solution to a wide variety of data collection and processing tasks.

SURV	COGO	ROAD		
Topography	Set out cords	Select road		
Traverse adjustment	Set out line	Set out road		
Resection	Set out arc	Set out road surface		
Set collection	Resection	Road topo		
Set review	Inverse	Cross-section survey		
Building face survey	Areas	Define road		
Collimation	Intersections	Review road		
Tilt offset	Point projection	Define template		
Remote elevation	Taping from baseline	Review template		
Keyboard input	Transformation			
	Keyboard input			

Enhanced productivity during reflectorless measurement

The full capability of Series030R's superior reflectorless measurement is realized when used in conjunction with the Expert software suite.

SURVEY (SURV)

The Survey program greatly simplifies topography, traverse surveying, building face surveying, and other applications.

■ Topography

The Series030R can average multiple observations for more accurate results. Tolerances are definable by the user. This program includes three types of convenient offset measurement functions: "two-distance offset," "single-distance offset," and "angle offset" for hidden points that cannot be observed directly.

■ Set Collection

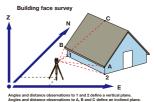
The Series030R averages observations collected on Face 1 and Face 2 of the instrument and also averages multiple sets of observations. The resulting observations can be used either for traverse calculations or resection calculations.

■ Traverse Adjustment

The Traverse Adjustment program allows you to specify a sequence of stations through which a traverse may be calculated and optionally adjusted. The observations do not have to be made in the same order as the traverse route.

■ Building Face Survey

The Building Face Survey program allows points on both vertical and non-vertical planes to be coordinated by angle-only-observations in order to pick up details of a building where the prism cannot be placed.



ROADING (ROAD)

The Roading program is one of the most comprehensive and powerful setting out solutions for road construction work. Horizontal alignment, vertical alignment, templates, side-slopes, road cross-sections, super-elevation, and widening can be defined as desired. Any point along the road can then be set out by specifying its station and offset.

Set Out Road Surface

The Set Out Road Surface program allows setting out of the cut or fill at any point on a road surface. Simply take a reading, and the cut/fill value is displayed. The design elevation can then be set if required.



























DISTANCE

STATION 0+00



OFFSET





























for Complex Field Operations, Plus Data Transmission

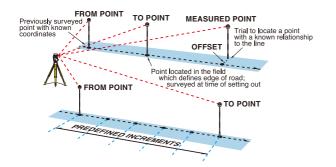


COGO

The Series030R offers a comprehensive suite of functions designed to carry out data collection, field calculations, and various setting-out tasks for civil engineering and construction. These streamlined functions dramatically increase productivity.

■ 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.

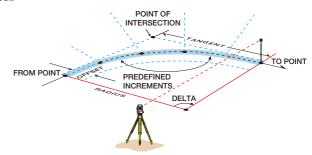


■ Taping from Baseline

The Taping from Baseline program allows you to set out by distance and offset from the baseline or to collect the topographical details by distance and offset.



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



■ Transformations

The Series030R transforms the job coordinates to a different coordinate system. Helmert transformations and linear transformations are available.



Sokkia Field-info Xpress

Instantaneous data transfer between any worksite and your office.

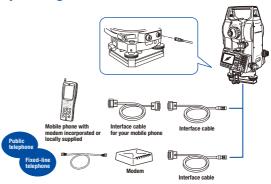
The Series030R can send surveyed data to a specified e-mail address or FTP server. It can also receive coordinate data for setting-out from your office computer or FTP server.



Just connect a mobile phone (and modem, if necessary) to the Series030R using the appropriate cables, 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 Series030R'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 FTP server. Consult your local telecoms operator for proper equipment and/or connectivity requirements.



SET1030R3 · SET2030R3 · SET3030R3 · SET1030R · SET2030R · SET3030R

SPECIFICATIONS

Model Availability		SET1030R3 Standard models	SET2030R3	SET3030R3	SET1030R Factory options	SET2030R	SET3030R		
aser class*1		Class 3R Laser Produc	·†		Class 2 Laser Produ	ıct			
elescope			I sighting and distance	massuring ontice	Glass 2 Lasel I Tout	iot			
eiescope				5mm (1.8in.) (EDM 48m	nm (1 9in)) Magnificat	tion: 30x Resolving no	wer: 2.5"		
							WOT. 2.0 ,		
		Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle glass: ∞ mark printed, Reticle illumination: 5 brightness levels							
Angle measurement				t diametrical detection					
Jnit		Absolute encoder scanning. Both circles adopt diametrical detection. Degree / Gon / Mil, selectable							
Display resolutions (selectable)		0.5" / 1", 0.1 / 0.2mg, (1" / 5", 0.2 / 1mg,	0.5" / 1", 0.1 / 0.2mg	a. 0.002 / 0.005mil	1" / 5", 0.2 / 1mg		
Dioplay (Concombin)		3,		0.005 / 0.02mil		y ,	0.005 / 0.02mil		
Accuracy (ISO 17123-3:2001)		1" / 0.3mg / 0.005mil	2" / 0.6mg / 0.01mil	3" / 1mg / 0.015mil	1" / 0.3mg / 0.005m	il 2" / 0.6mg / 0.01n			
Measuring time		0.5s or less, continuou	0.5s or less, continuous						
Measurement mode		H: Clockwise / Counter	H: Clockwise / Counterclockwise, selectable. 0 set, Angle input, available. V: Zenith 0 / Horizontal 0, selectable						
Automatic dual-axis compensator		Dual-axis liquid tilt sen	Dual-axis liquid tilt sensor, Working range: ± 3' (± 55mg)						
Collimation compensation	on	Yes / No, selectable							
Fine motion screws		Fine / Coarse 2-speed							
Distance measurement			e comparison method v	rith red laser diode.					
Laser output		Reflectorless mode: Cl				Class 2 (max. 0.99mV			
			ass 1 equivalent (max. ().22mW)	Prism/Sheet mode:	Class 1 equivalent (ma	x. 0.22mW)		
Jnit		Meters / feet / US feet,							
Measuring range	Reflectorless*2		Oft.) (White side, 90%			50ft.) (White side, 90%			
slope distance)	(using Kodak Gray Card)		ft.) (Gray side, 18% refl			Oft.) (Gray side, 18% re	eflective)		
	With reflective sheet target*7		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		620ft.), OR1PA: 1.3 to		100 AF 1 7 1				
	With 1 AP prism		Under average conditions*4: 1.3 to 4,000m (13,120ft.), Under good conditions*5: 1.3 to 5,000m (16,400ft.) Under average conditions*4: to 5,000m (16,400ft.), Under good conditions*5: to 6,000m (19,680ft.)						
	With 3 AP prisms						0.004 (0.040)		
Display resolutions	Fine mode	0.0001 / 0.001m (0.00		0.001m (0.01ft.)	0.0001 / 0.001m (0	.001 / 0.01ft.)	0.001m (0.01ft.		
	Rapid single / Tracking		(0.01ft.) / Tracking: 0.0		1001 100 (110	00(1) + (0 0 0	`		
Accuracy	Reflectorless*2/*3		ft.): \pm (3 + 2ppm x D)m			20ft.): ± (3 + 2ppm x D			
D=measuring	(Fine mode)		er 650 to 1,140ft.): ± (5			over 320 to 650ft.): ± (
listance, unit:mm)	Reflectorless*2/*3		0.3 to 200m (1 to 650ft.): ± (6 + 2ppm x D)mm 0.3 to 100m (1 to 320ft.): ± (6 + 2ppm x D)mm 0.4 to 100 to 320m (4 to 550ft.): ± (6 + 2ppm x D)mm 0.5 to 100 to 320m (4 to 550ft.): ± (6 + 2ppm x D)mm						
	(Rapid single mode)		Over 200 to 350m (over 650 to 1,140ft.): ± (8 + 10ppm x D)mm Over 100 to 200m (over 320 to 650ft.): ± (8 + 10ppm x D)mm						
	With reflective sheet target With prism		Fine: ± (3 + 2ppm x D)mm, Rapid single: ± (6 + 2ppm x D)mm						
Measuring time	Fine mode		Fine: ± (2 + 2ppm x D)mm, Rapid single: ± (5 + 2ppm x D)mm						
vicasuring time	Rapid single / Tracking		Repeat: Every 0.9s (initial 2.2s), Single: 2.2s Rapid single: 2.0s / Tracking: Every 0.3s (initial 2.0s)						
Measuring mode	napiu Siligie / Trackilig		Hapid single: 2.0s / Tracking: Every 0.3s (Initial 2.0s) Fine (single / repeat), Rapid (single), Tracking						
	/ Prism constant correction		Temperature, Pressure, Humidity, ppm input available / -99 to +99mm (1mm steps). 0 fixed in reflectorless mode.						
Refraction & earth-curva		Yes (K=0.14 / 0.20) / N		2441145107 00 to 100111111	(Tillin Stops). O lixou	in reneeteriess meae.			
Scale factor setting / Sea		0.5 to 2.0 / Yes / No	vo, odiodiabio						
DS, data storage and tra		0.0 10 2.0 / 100 / 110							
Operating system		MS-DOS compatible (I	DR-DOS)						
Data storage	Internal memory			prox. 8,800 points with S	SDR33 format.				
	Memory card drive		for Compact Flash card						
nterface				ud rate: 1,200 to 38,400	bps				
SFX wireless data transf	er	Provided		· · · · · · · · · · · · · · · · · · ·					
Printer output		Centronics compatible	(with optional DOC46)	orinter cable)					
General									
Display / Keyboard			dot matrix LCD, 20 cha	racters x 8 lines, with ba	cklight, on both faces	/ Full alphanumeric, 4	3 keys, on both faces		
SF14 wireless keyboard		Optional							
	Laser-pointer function		ON (auto off in 5 minutes) / OFF, selectable. (does not work simultaneously with the Guide Light)						
aser-pointer function			tes) / OFF, Selectable. (Joes Hot Work Simultane		<u> </u>			
aser-pointer function aser radiation indicator	•	Yes	tes) / OFF, Selectable. (None None	· ,			
aser-pointer function aser radiation indicator Guide Light Unit GDL2		Yes Factory option		30" / 2mm	None				
aser-pointer function aser radiation indicator Guide Light Unit GDL2	Plate level	Yes Factory option 20" / 2mm	30" / 2mm*6	30" / 2mm		30" / 2mm* ⁶	30" / 2mm		
aser-pointer function aser radiation indicator Guide Light Unit GDL2 Gensitivity of levels	Plate level Circular / Graphic	Yes Factory option 20" / 2mm Circular level: 10' /2mi	30" / 2mm* ⁶ m / Graphic LCD level	30" / 2mm	None 20" / 2mm	30" / 2mm*6	30" / 2mm		
aser-pointer function aser radiation indicator duide Light Unit GDL2 densitivity of levels Optical plummet	Plate level	Yes Factory option 20* / 2mm Circular level: 10' /2mi 5.5x	30" / 2mm*6	30" / 2mm	None		30" / 2mm		
aser-pointer function aser radiation indicator suide Light Unit GDL2 ensitivity of levels optical plummet ribrach	Plate level Circular / Graphic Magnification	Yes Factory option 20* / 2mm Circular level: 10* /2mm 5.5x Detachable	30" / 2mm* ⁶ m / Graphic LCD level	30" / 2mm : 3' / outer circle	None 20" / 2mm	30" / 2mm*6	30" / 2mm		
aser-pointer function aser radiation indicator suide Light Unit GDL2 Gensitivity of levels Optical plummet ribrach Oust and water protection	Plate level Circular / Graphic Magnification on / Operating temperature	Yes Factory option 20" / 2mm Circular level: 10" /2mi 5.5x Detachable Conforms to IP64 (IEC	30° / 2mm *6 m / Graphic LCD level 3x	30° / 2mm 30° / outer circle	None 20" / 2mm 5.5x	30° / 2mm*6	30" / 2mm		
aser-pointer function aser radiation indicator kuide Light Unit GDL2 tensitivity of levels optical plummet ribrach bust and water protection strument height / Size	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t	30° / 2mm*6 m / Graphic LCD level 3x 60529) / -20 to +50°C	30" / 2mm : 3' / outer circle	None 20" / 2mm 5.5x	30° / 2mm*6	30° / 2mm		
aser-pointer function aser radiation indicator suide Light Unit GDL2 Sensitivity of levels Optical plummet Fribrach Oust and water protectic nstrument height / Size Weight with handle and	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb.	30° / 2mm*6 m / Graphic LCD level 3x 60529) / -20 to +50°C	30° / 2mm 30° / outer circle	None 20" / 2mm 5.5x	30° / 2mm*6	30°/2mm		
aser-pointer function aser radiation indicator Guide Light Unit GDL2 Sensitivity of levels Optical plummet Fribrach Oust and water protection nstrument height / Size Weight with handle and Power supply	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery	Yes Factory option 20" / 2mm Circular level: 10" /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb. 6V DC	30° / 2mm*6 m / Graphic LCD level 3x 60529) / -20 to +50°C ciribrach bottom / W 18	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6	30° / 2mm*6	30°/2mm		
aser-pointer function aser radiation indicator Guide Light Unit GDL2 Sensitivity of levels Optical plummet Tribrach Oust and water protection	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb. 6V DC Ni-MH rechargeable ba	30° / 2mm*6 m / Graphic LCD level 3x 60529) / -20 to +50°C rribrach bottom / W 18) attery, 2 BDC35A are in	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6	30° / 2mm*6	30°/2mm		
aser-pointer function aser radiation indicator suide Light Unit GDL2 Sensitivity of levels Optical plummet Tribrach Oust and water protection nstrument height / Size Weight with handle and	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery ery Continuous use per battery	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb. 6V DC Ni-MH rechargeable ba About 6 hours (single	30° / 2mm*6 m / Graphic LCD level 3x c 60529) / -20 to +50°C ribrach bottom / W 18) attery, 2 BDC35A are in measurement every 30	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6	30° / 2mm*6	30" / 2mm		
aser-pointer function aser radiation indicator suide Light Unit GDL2 Sensitivity of levels Optical plummet Tribrach Oust and water protection nstrument height / Size Weight with handle and	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery continuous use per battery at 25°C (77°F)	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9ib. 6V DC Ni-MH rechargeable ba About 6 hours (single About 8 hours (angle r	30° / 2mm*6 m / Graphic LCD level 3x c 60529) / -20 to +50°C tribrach bottom / W 18) attery, 2 BDC35A are in measurement every 30 measurement only)	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6	30° / 2mm*6	30° / 2mm		
aser-pointer function aser radiation indicator Guide Light Unit GDL2 Sensitivity of levels Optical plummet Fribrach Oust and water protectic nstrument height / Size Weight with handle and Power supply 3DC35A detachable batt	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery continuous use per battery at 25°C (77°F) Recharging time	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb. 6V DC Ni-MH rechargeable b: About 6 hours (single About 120 minutes per	30° / 2mm*6 m / Graphic LCD level 3x 6.60529) / -20 to +50°C ribrach bottom / W 18) attery, 2 BDC35A are in measurement every 30 measurement only) r battery	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (cluded as standard accesseconds)	None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6 ssories.	30° / 2mm*6 3x			
aser-pointer function aser radiation indicator Guide Light Unit GDL2 Sensitivity of levels Optical plummet Fribrach Oust and water protection nstrument height / Size Weight with handle and Power supply	Plate level Circular / Graphic Magnification on / Operating temperature with handle and battery battery continuous use per battery at 25°C (77°F) Recharging time	Yes Factory option 20° / 2mm Circular level: 10° /2mi 5.5x Detachable Conforms to IP64 (IEC 236mm (9.3in.) from t Approx. 5.9kg (12.9lb. 6V DC Ni-MH rechargeable b: About 6 hours (single About 120 minutes per	30° / 2mm*6 m / Graphic LCD level 3x 60529) / -20 to +50°C irribrach bottom / W 18) attery, 2 BDC35A are in- measurement every 30 measurement only) r battery gle measurement every	30° / 2mm 3° / outer circle (-4 to +122°F) 6 x D 171 x H 345 mm (cluded as standard accesseconds)	None 20" / 2mm 5.5x W 7.3 x D 6.7 x H 13.6 sories. About 25.0 hours (s	30° / 2mm*6	ery 30 seconds)		

**1 IEC 60825-1Amd.2: 2001 / FDA CDRH 21 CFR Part1040.10 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 Reflectoriess range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *3 With Kodak Gray Card White Side (90% reflective)

*4 Average conditions: Slight haze, visibility about 20km (12 miles), sumpreprietds, weak scinifilation. *6 20" / 2mm plate level is available as a factory option.

*7 When the beam's angle of incidence is within ±30" up and down / right and left in relation to the surface of the target.

LASER RADIATION VOID DIRECT EYE EXPOSUI



■ Standard accessoriess

BDC35A rechargeable Ni-MH batteries (2 pcs.) • CDC70 charger and EDC114 with EDC113A/113B/113C power cable • CP7 tubular compass • Lens hood • Lens cap • Plumb bob • Tool kit • Wiping cloth • Vinyl cover • Operator's manual • Carrying case • Shoulder strap • Laser caution sign board (for Class3R models only)

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