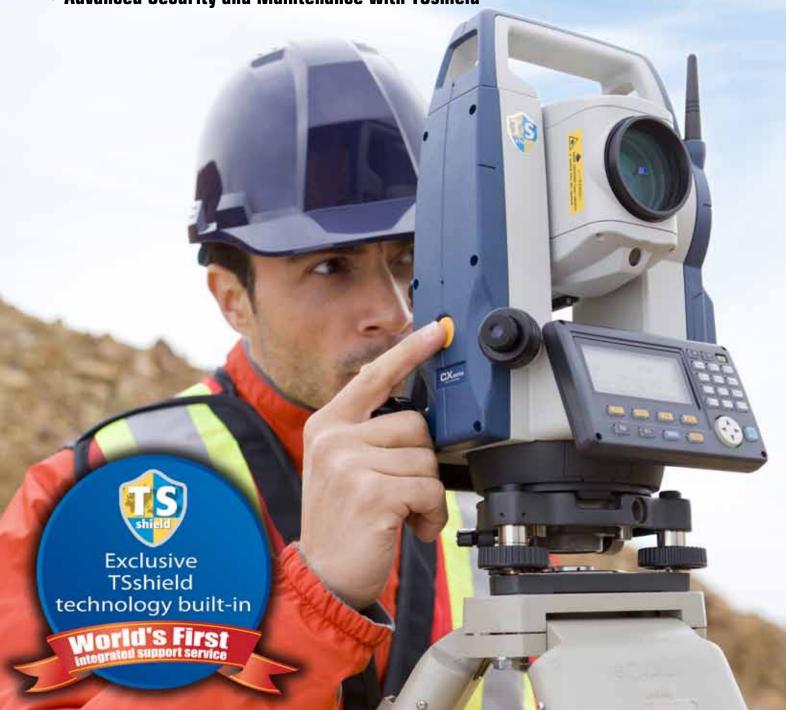




Tradition Meets Innovation

- RED-tech Technology Reflectorless EDM
- Long-range Bluetooth® Technology
- Advanced Angle Measurement System
- The Longest Battery Life 36 Hours!
- Waterproof, Rugged, and Operator Friendly
- Advanced Security and Maintenance with TSshield™

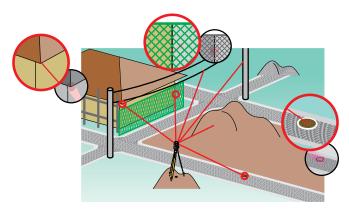


Inspired by Tradition, Ready for The Future.

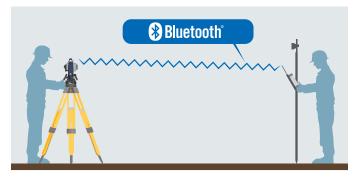
RED-tech Technology Reflectorless EDM Long-Range *Bluetooth®* Technology*



- Fastest measurment time in its class.
- Sokkia traditional pinpoint precision in reflectorless distance measurement.
- Reflectorless operation from 30cm to 500m.
- Coaxial EDM beam and laser-pointer provide fast and accurate aiming.
- Ensures accuracy even with reflective sheets.



The ultra-narrow EDM beam can precisely measure walls, corners, manholes on the road surface, even chain-link fences and tree branches.



- The CX series of total stations features Bluetooth® Class 1 wireless technology for reliable data communications.
- All CX data is instantly available at the Bluetooth®-equipped controller. * Offered as an ontion in some areas

Advanced Angle Measurement System

- CX features Sokkia's original absolute encoders that provide long-term reliability in any job site condition. Dual-axis compensator ensures stable measurements even when setup on uneven terrain.
- Sokkia's traditional motion clamp and tangent screw are employed to ensure stable angle measurement.
- CX-101 and CX-102 feature groundbreaking IACS (Independent) Angle Calibration System) technology for extremely reliable angle measurement.



The Longest Battery Life - 36 Hours!

- The CX single battery can last up to 36 hours.*
- · Greatly reduces likelihood of low power during any full-days work.
- Eliminates the need for nightly recharging or carrying extra batteries.
 - * Operating time will vary depending upon environmental conditions and CX activity



Waterproof, Rugged, and Operator Friendly

- IP66 dustproof / waterproof rating.
- Metal chassis and heavy duty handle add ruggedness.
- Standard usage temperature range -20 to +50°C. Low temperature models can be used as low as -30°C° and high temperature models up to +60°C.°



 $\ensuremath{^{*}}$ Low and High temperature models available as options.

| High-temp Models | Standard Models | Low-temp Models | -30°C | -20°C | -20°C | -450°C | -450°C | -450°C | -4120°F | (+1420°F) | (+1420°F

- USB Type A port for convenient added memory. Use of included USB accessory assures IP66 protection.
- One-touch STAR key offers instant access to functions.
- Conveniently located "trigger" key lets you take a series of measurements with the push of a button without taking your eye off the telescope.
- Control panel features 10-key pad with large LCD that provides optimum viewing and convenience.*
 - Control panel location may vary depending on region or model.







 Green / Red telescope guide light enhances work efficiency in a range up to 150m.







 Built-in laser plummet with five brightness levels is equipped for quick instrument setting in all lighting conditions. (optional)



TSshield™

Every CX total station is equipped with a telematics-based multifunction communications module providing the ultimate security and maintenance capabilities for your investment.

If an activated instrument is lost or stolen, you can send a coded signal to the instrument and disable it – Your total station is secure anywhere in the world!

And, in the same module, you have daily connectivity to cloud-based Sokkia servers that can inform you of available software updates and firmware enhancements.

* For more detail of TSshield, please refer to the TSshield's leaflet



SPECIFICATIONS

Model		CX-101	CX-102	CX-103	CX-105	CX-107
Telescope						
Magnification / Resolving power		30x / 2.5° 30x / 3.5°				
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm (1.9in.) for EDM),				
		Image: Erect, Field of view: 1°3	30' (26m/1,000m), Minimum	focus: 1.3m (4.3ft.), Reticle illun	nination: 5 brightness levels	
Angle Measurement		0.51/41				
Display Resolution		0.5"/1"				
		(0.0002 / 0.001gon, 0.005 / 0.02mil)				
Accuracy (ISO 17123-3:2001)		1"	2"	3"	5"	7"
IACS (Independent Angle Calibration System)		Provided -				
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range: ±6' (±111mgon) / Collimation compensation available				
Distance Measurement						
Laser output*1		Reflectorless mode: Class 3R / Prism / sheet mode: Class 1				
Measuring range (under average conditions*2)	Reflectorless ¹³	0.3 to 500m (1.0 to 1,640ft.)				
	Reflective sheet*4/*5	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)				
	Mini prisms	CP01: 1.3 to 2,500m (8,200ft.), OR1PA: 1.3 to 500m (1,640ft.)				
	One AP prism	1.3 to 4,000m (4.3 to 13,120ft.) / Under good conditions '6: 5,000m (16,400ft.)				
	Three AP prisms	to 5,000m (16,400ft.) / Under good conditions' ⁶ : to 6,000m (19,680ft.)				
Display Resolution		Fine/Rapid: 0.001m / 0.01ft. / 1/8in. Tracking: 0.01m / 0.1ft. / 1/2in.				
Accuracy*2 (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless*3	(3 + 2ppm x D) mm ¹⁷				
	Reflective sheet*4	(3 + 2ppm x D) mm				
	AP/CP prism	(2 + 2ppm x D) mm				
Measuring time ^{"8}		Fine: 0.9s (initial 1.7s), Rapid: 0.7s (initial 1.4s), Tracking: 0.3s (initial 1.4s)				
Interface and Data mar	nagement					
Display / Keyboard		Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 25 keys with backlight				
Control panel location ⁹		On both faces On one fac				
Trigger key		On right instrument support				
Data storage	Internal memory	Approx. 10,000 points				
	Plug-in memory device	USB flash memory (max. 8GB)				
Interface		Serial RS-232C, USB2.0 (Type A, for USB flash memory)				
Bluetooth® modem (option)*10		Bluetooth® Class 1, Ver.2.1+EDR, Operating range: up to 300m (980ft.)*11				
General						
Laser-pointer*12		Coaxial red laser using EDM beam				
Guide light*12	·	Green LED (524nm) and Red LED (626nm), Operating range: 1.3 to 150m (4.3 to 490ft.) ¹²				
Levels	Graphic	6' (Inner Circle)				
	Circular level	10' / 2mm				
Optical plummet		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom				
Laser plummet (option)		Red laser diode (635nm±10nm), Beam accuracy: ≤1.0mm@1.3m, Class 2 laser product				
Dust and water protection		IP66 (IEC 60529:2001)				
Operating temperature*13		-4 to +122°F (-20 to +50°C)				
Size with handle ^{*9}		Control panel on both faces: W7.5 x D7.1 x H13.7in. (W191 x D181 x H348mm)				
Mainht with hattan C tribuach		Control panel on one face: W7.5 x D6.9 x H13.7in. (W191 x D174 x H348mm)				
Weight with battery & tribrach	1	Approx. 12.3 lb. (5.6kg)				
Power supply	Detechable Institution	I i ion analogous abba tratego				
Battery (BDC70) Operating time (20°C)	Detachable battery	Li-ion rechargeable battery				
	BDC70	Approx. 36 hours (single distance measurement every 30 seconds)				
	External battery 14 (Optional)	BDC60: approx. 44 hours, BDC61: approx. 89 hours (single distance measurement every 30 seconds)				

Standard Accessories

- CX main unit
- Battery (BDC70)
- Battery charger (CDC68)
- Power cable
- Lens cap
- Lens hood
- Tool pouch
- Screwdriver

- Lens brush
- Adjusting pin x2
- Cleaning cloth
- Operation manual
- USB memory stick
- Laser caution sign-board
- Carrying case
- · Carrying strap
- *1 IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11 *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny *1 IEG60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1.040.10 and 11 *2 Average conditions: Slight haze, visibility about 20km 112 miles), surny periods, weak scintilation *3 With Kodak Gray Card White Side (90hr fellerwise). When brightness on measure surface is 30.000 lb. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions. *4 When the measuring beam's incidence angle is within 30" in relation to the reflective sheet target. *5 Measuring range in temperatures of *3 0to -20"C I-22 to -4"Fl with Low Temperature models and 50 to 60"C I(122 to 140"F) with High Temperature models: NS90N+K: 1.3 to 300N+K: 1.3 to 180N+K: 1.3 to 500N+K: 1.3 to 180N+K: 1.3 to 500N+K: 1.3 to 180N+K: 1.3 to 180N+ tracted according to country. Prease and interesting the first of the first presentation in advances. The various classics, lew various or sold one of value trissoling interference in the near vicinity of the instrument, no rain. *12 The laser-pointer and the guide light do not work simultaneously. *13 Low Temperature models: -30 to 50 °C (-22 to 122°F) and High Temperature models: -20 to 60°C (-4 to 140°F, No direct sunlight) are available on built-to-order basis. *14 For CX-101, CX-102 and Low temperature models.



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