

SOKKIA

CX-50 Series

Compact X-ellence Station



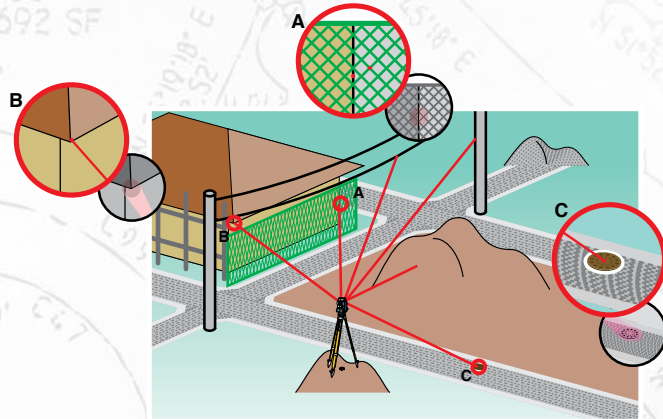
- **RED-tech technology reflectorless EDM**
- **Reflectorless up to 350 m**
- **Up to 15 hours battery life**
- **On-board software**
- **Red laser pointer**
- **Waterproof IP66**

CX-50 Series

Compact X-ellence Station

RED-tech Technology Reflectorless EDM

- Fast distance measurement of 0.9 s.
- Sokkia's traditional pinpoint precision in reflectorless distance measurement.
- Reflectorless operation from 30 cm to 350 m.
- Coaxial EDM beam and laser-pointer provide fast and accurate aiming.
- Ensures accuracy even with reflective sheets.



Waterproof, Rugged, and Operator Friendly

- IP66 dustproof / waterproof rating.
- Rugged metal chassis and heavy duty handle.
- Standard usage temperature range -20° to 60°C.

Advanced Angle Measurement System

- The CX-50 series features Sokkia's original absolute encoders which provide long-term reliability in any job site condition. The 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-52 features IACS (Independent Angle Calibration System) technology for extremely reliable angle measurement.

Standard Accessories

- CX-50 series total station
- Battery (BDC46C)
- Battery charger (CDC68)
- Power cable
- Lens cap
- Lens hood
- Tool pouch
- Screwdriver
- Lens brush
- Adjusting pin x2
- Cleaning cloth
- Operation manual
- Laser caution sign-board
- Carrying case
- Carrying strap

SPECIFICATIONS

Model	CX-52	CX-55
Telescope		
Magnification / Resolving power	30x / 2.5"	30x / 2.5"
Length	171 mm	
Objective aperture	45 mm (48 mm for EDM)	
Image	Erect	
Field of view	1°30' (26 m/1,000 m)	
Minimum focus	1.3 m	
Reticle illumination	5 brightness levels	
Angle Measurement		
Display Resolution	1" / 5" (0.0002 / 0.001gon, 0.005 / 0.02mil)	
Accuracy (ISO 17123-3:2001)	2"	5"
IACS (Independent Angle Calibration System)	Provided	-
Dual-axis compensator / Collimation compensation	Working range: ±6' (±111 mgon) Collimation compensation available	
Distance Measurement		
Laser output (Reflectorless mode)	Class 3R / Prism / sheet mode: Class 1	
Measuring range (under average conditions)	Reflectorless	0.3 to 350 m
	Reflective sheet	RS90N-K: 1.3 to 500 m RS50N-K: 1.3 to 300 m RS10N-K: 1.3 to 100 m
Mini prisms	CPD1: 1.3 to 2,500 m OR1PA: 1.3 to 500 m	
	One AP prism	Up to 5,000 m
Display resolution	Fine/Rapid: 0.001 m / 0.01 ft. / 1/8 in. Tracking: 0.01 m / 0.1 ft. / 1/2 in.	
Accuracy (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless	(3 + 2ppm x D) mm
	Reflective sheet	(3 + 2ppm x D) mm
	AP/CP prism	(2 + 2ppm x D) mm
Measuring time	Fine: 0.9s (initial 1.7s) Rapid: 0.7s (initial 1.4s) Tracking: 0.3s (initial 1.4s)	
	Interface and Data management	
	Display / Keyboard	Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / alphanumeric keyboard / 25 keys with backlight
Control panel location	Both sides	Single side
Data storage (internal memory)	Approx. 5,000 points	
Interface	Serial RS-232C	
General		
Laser-pointer	Coaxial red laser using EDM beam	
Levels	Graphic	6' (Inner Circle)
	Circular level	10' / 2 mm
Optical plummet	Magnification: 3x Minimum focus: 0.3 m from tribrach bottom	
Laser plummet (optional)	Red laser diode (635 nm ±10 nm) Beam accuracy: ≤1.0 mm at 1.3 m Class 2 laser product	
Dust and water protection	IP66 (IEC 60529:2001)	
Operating temperature	-20 to 60°C	
Size with handle (w x d x h mm)	191 x 181 x 348	191 x 174 x 348
Weight with battery and tribrach	Approx. 5.6 kg	
Power supply		
Battery (BDC46C)	Detachable battery	Li-ion rechargeable battery
Operating time (20°C)	BDC46C	Approx. 15 hours

SOKKIA

SOKKIA CORPORATION

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Specifications subject to change without notice
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