

SOKKIA

CX-LN Series

Compact X-ellence Station



- **2,000 m reflectorless measurement**
- **Long-range Bluetooth® technology**
- **Advanced angle measurement system**
- **Rugged and operator friendly**
- **Advanced security with TSshield™**
- **Waterproof IP66**

CX-LN Series

Compact X-ellence Station



Extended reflectorless measurement range up to 2,000 m

- Class 1 safe pulse laser EDM.
- Long range reflectorless technologies to maximize work efficiency.

Long Range Data Communication

- Featuring Bluetooth® Class1 for reliable data communications.
- All data is instantly available at the Bluetooth-equipped controller.

Advanced Angle Measurement System

- The CX-LN 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-102LN features IACS (Independent Angle Calibration System) technology for extremely reliable angle measurement.

Standard Accessories

- CX-LN series total station
- 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

SOKKIA

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SOK-1033 Rev A 11/15

SPECIFICATIONS

Model	CX-102LN	CX-105LN
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	1.4 m	
Reticle illumination	5 brightness levels	
Angle Measurement		
Display Resolution	1" / 5" (0.0002 / 0.001 gon, 0.005 / 0.02 mil)	
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	Class 1 (for distance measurement) Class 2 (Laser pointer)	
Measuring range (under average conditions)	Reflectorless	1.5 m to 250 m
	Long Reflectorless	5 m to 2,000 m
	Mini prisms	1,000 m
	One AP prism	3,000 m
Display Resolution (fine / rapid / tracking)	0.001 m / 0.001 m / 0.01 m	
Accuracy (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless	5 mm
	Long Reflectorless	(10 mm + 10 ppm x D) mm
	AP/CP prism	(2 mm + 2 ppm x D) mm
Measuring time	Reflectorless / prism	Fine: 1.2s (initial 3s)
	Long Reflectorless	Fine: 1.5 to 4.5s (initial 6 to 8s)
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. 10,000 points
	Plug-in memory device	USB flash memory (max. 8GB)
Interface	Serial RS-232C, USB2.0 (Type A)	
Bluetooth®	Bluetooth Class 1, Ver. 2.1+EDR, Operating range: up to 300 m	
General		
Laser-pointer	Coaxial red laser using EDM beam	
Point Guide	Red LED x 2 (644 nm) ~ 100 m	
Levels	Graphic	6' (Inner Circle)
	Circular level	10' / 2mm
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 50°C	
Size with handle (w x d x h mm)	191 x 181 x 358	191 x 174 x 358
Weight with battery and tribrach	Approx. 5.6 kg	
Power supply		
Battery (BDC70)	Detachable battery	Li-ion rechargeable battery
Operating time (20°C)	BDC70	Approx. 6 hours
	External battery (optional)	BDC60: approx. 7 hours BDC61: approx. 14.5 hours

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