

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 Excellence Station

SPECIFICATIONS



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

| 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 modem (optional) | 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 |

SOKKIA

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Specifications subject to change without notice
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