

LN-100

3D Layout Navigator



 **TOPCON**



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3D Layout Navigator

The world's first 3D positioning system designed specifically for construction layout.

The first time you see it you know it's unlike anything you've seen before. Its clean, innovative design tells you right away that the LN-100 is a game changer. The LN-100 strips away complexity to deliver an easy-to-use tool dedicated to construction layout. It utilizes Topcon's time-proven laser and robotic total station technologies to create a totally new tool that's easy to use, without sacrificing the accuracy and versatility demanded for all types of construction layout.

With the press of just one button, the LN-100 automatically self-levels and is ready for action. Fire-up its hand-held, touch-screen controller and you are ready to go to work.

With the wireless controller, you can call up simple point layout or large CAD drawings—right in the palm of your hand, anywhere on the site. Display the design point or line that needs to be staked out, touch it, and the LN-100 laser immediately points to the exact location. It can also lock onto a prism and guide you to the next design points. One-person layout has never been this easy.

From traditional utility layout, to foundations, electrical, plumbing, walls, ceilings, HVAC, and much more, layout anything on the job site up to 100 meters (328 feet) away. Never before has construction layout been so powerfully simple.





Typical Applications

For more than 85 years Topcon has manufactured precise measurement tools and solutions.

Focusing on quality optics, precision GPS receivers, and dynamic user interfaces, Topcon is a leader in providing civil engineering, land surveying, BIM and geomatics solutions for all regions of the world.

Beyond product and software expertise, Topcon's experience with a wide variety of applications empowers our development team to focus on solutions to meet the needs of our many customers. The LN-100 is design specifically for construction applications of both today and the future.

Interior Building Infrastructure

- Decking
- Wall and Ceiling Layout
- HVAC
- Electrical
- Plumbing
- IT Cabling

Foundations and Footings

- Anchor Bolts
- Foundation Walls
- Building Footprint
- Concrete Forms
- Abutments

Utilities and General Layout

- Excavation Limits
- Elevation Staking
- Pipelines
- Clearing Limits
- Underground Utilities
- Landscaping
- Drilling
- Power Transmission





Construction Layout

Construction projects demand precise positioning and documentation of as-built conditions for quality control. Topcon's versatile LN-100 is ready for all types of layout and alignment applications.



Features



RUGGED COMPACT DESIGN

- Small and lightweight
- Waterproof – dustproof design
- Easy to carry
- Completely sealed housing



EASY SETUP AND OPERATION

- On the ground or decking
- Mounts on tripod or column clamp
- Automatic self-leveling
- Alerts user if disturbed



ADVANCED 3D MEASURING AND LAYOUT

- Built-in wireless connectivity
- 100m (328 ft.) working range
- Automatically turns to layout points
- Tracks a standard prism

Specs

Positioning Accuracy

Measurement Range	0.9m – 100m (3 ft. – 328 ft.)
Positioning Accuracy	±3mm
Vertical Coverage	±25° up to 22m range (72 ft.) ±10m height, 22 - 100m range (72 ft. – 328 ft.)
Horizontal Rotation	360°
Guide light	Range : ~100m V : ±12°, H : 8°

Hardware

Laser Plummet	Integrated
Auto Leveling	Self leveling (±3°) LED indicators for leveling
Communication	Wireless 802.11n/b/g
LED Indicators	Power, Battery Level, Self-leveling, and Communication
Working Duration	5 Hours (1 battery)

Physical

Dust/Water Protection	IP65
Dimensions	185 x 196 x 295mm
Weight (including batteries and antenna)	~ 4kg (8.8 lbs.)

Preliminary specifications, may be subject to change.

Interference-Free
Communications

Easy-Grip
Carrying Handle

TOPCON

High Visibility
Guide Lights

Waterproof and
Dustproof Housing

Completely Sealed
Housing

Self-leveling
Base

Easy, One-button Setup
LED Indicators
Bright Laser Plummet





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