

## 3D Layout Navigator



- Interior Building Infrastructure
- Foundations and Footings
- Utilities and General Layout
- Construction Layout

# LN-100 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. The LN-100 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 100m away. Never before has construction layout been so powerfully simple.

## Building Information Modeling (BIM)

Construction coordination is essential for any building project. Knowing what was done before and working from the same design plan is critical to maintain schedule and avoid costly collisions. With Topcon's BIM solutions you stay connected to the same design.

Topcon's BIM solutions help perform fast layout of design points and quick quality control documentation. A project's success is based on productivity, accuracy, and coordination. Contribute precise as-built data back to the BIM model as your work is done.



### 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 working range
- Automatically turns to layout points
- Tracks a standard prism



### Easy to Perform As-Built Checks

- Fast and accurate
- Reliable quality control
- Identify changes from original plans
- Ensure accurate record keeping



## PRIMARY FEATURES



### 3D Layout Tool

The LN-100 is a compact, self-leveling, easy-to-setup 3D layout tool designed for construction layout. Use the LN-100 instead of theodolites tapes or other layout tools. Compact, rugged and very light weight, the LN-100 is ideal for construction layout and as-builts.



## KIT COMPONENTS

### System Components

- LN-100 3D Layout Navigator
- BDC70 Batteries (2x)
- Battery Charger
- Carrying Case
- Manual CD





## SPECIFICATIONS

### Positioning Accuracy

Measurement Range	0.9m – 100m
Positioning Accuracy	±3mm
Vertical Coverage	±25° up to 22m range, ±10m height, 22 - 100m range
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, Communication, and Self-leveling
Working Duration	5 Hours (1 battery)

### Physical

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

For more specifications information:  
[www.topcon-positioning.eu](http://www.topcon-positioning.eu)

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## SOFTWARE

# MAGNET™

A family of software solutions that streamlines the workflow for surveyors, contractors, engineers and mapping professionals.

## Field

### Modern User Interface

MAGNET Field provides a bright, graphical user interface with large touch icons, and bright readable text. The screens not only look good, but provide fast workflows.



### Easy to Use

The icon and text field interface has been optimized to provide both text and images to indicate what data is needed on each screen.



### Advanced Calculations

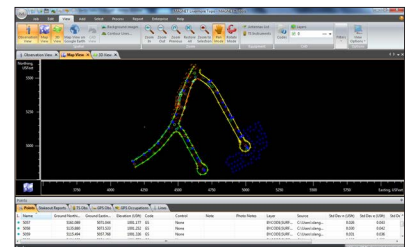
MAGNET Field on-board not only controls the measurements of the DS, but also provides many COGO and adjustment calculations right on the instrument.



## Office Tools

### MAGNET Office Tools

Directly integrates into Autodesk products utilizing their CAD engine, or as a standalone installation with Topcon's MAGNET Office Site and MAGNET Office Topo.



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