



Standard Components

- LN-60/160
- Battery BDC72 2 pieces
- Battery charger CDC77
- Power cable EDC113A/113C etc.
- Wiping cloth
- Instruction manual : Read this first
- Laser caution sign-board
- Carrying case
- Carrying strap
- 360° prism kit
- Export restrictions card (Be sure to read)

Accessories (optional accessories)



360° Prism ATP2



Hand grip SB190



Car battery cable EDC213 (LN-160 Only)



Candy mirror CM-7PPO



360° Prism protector ATP guard



Backpack SC251

SPECIFICATIONS

Model	LN-60	LN-160
Measuring range		
Distance	0.9 to 130m ^{*1} (When using ATP2/ATP2SII) 0.9 to 50m ^{*1} (When using CM-7PPO)	
Vertical angle	+55° to - 32°	
Measurement accuracy	Distance accuracy: (3.0 + 2ppm X D)mm ^{*2*} Angle accuracy: 5"	
Self-leveling		
Leveling range	± 3 °	
Inclination compensation		
Method	Hydraulic dual-axis inclination	
Compensation range	± 6'	
Motor		
Motion range	360° (Horizontal)	
Maximum rotation Speed	60° / second (10 rpm)	
Guide light		
Light source	LED (Red 626nm/ Green 524nm)	
Visible range	Horizontal > 8° (7m@50m distance)	
Laser plummet		
Light source	N/A	Yes
Wavelength		Laser diode
Laser class		635mm Class 2
Communication		
Wireless LAN	Supports 802.11 n/b/g	
Communication distance	100m	
Bluetooth	Version Bluetooth 5.0	
Power class	Class 1.5	
Usable range	to 130m ^{*4*}	
Power supply		
Power source	Rechargeable Li-ion battery BDC72	
Operating time	Approx. 6 hours (continuous use, at 20°C)	
External power supply port	N/A	Yes
Dimensions		
Weight (including battery)	Approx. 4.0 kg	Approx. 4.1 kg
Environmental resistance		
Operating temperature	-20 to + 50 °C (no condensation)	
Storage temperature	-30 to + 60 °C (no condensation)	
Dustproof/Waterproof	IP65	
Machine control support		
Software	N/A	Yes
	Toplayout (Android Device only)	TopLayout / Topcon Field Topcon Digital Layout Pocket 3D

*1: Weather conditions for measurement: Other than bad weather, such as rain, dense fog, and strong heat haze.
 *2: Figures will change depending on the weather conditions and location conditions. Figures when both the elevation and depression angles of the laser beam are within 15° and the instrument is facing the 360° Prism.
 *3: D: Measurement distance; Unit: mm
 *4: Paired with designated controllers, with instrument height to be more than 1.5m, no obstacles (like building structures, trees or vehicles) causing interrupting/reflecting radio wave, few sources of radio emissions/interference in the near vicinity of the instrument, no rain.
 *5: Usage range could be shorter depending on specifications of Bluetooth device to communicate.

- LN-60 is only available for Asian region.
 - Specifications may vary by region and are subject to change without notice.
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LN-60/160 series

Layout Navigator



LN-160

LN-60

Easy to improve your stake-out work!

- Easy instrument set up with Self-leveling
- Expanded range of measurement!
Even sharp inclines are handled with ease
- Reduce working hours
- Easy guidance
- Android device as controller
- Work long hours with peace of mind!
Equipped with an external power supply port *
- Equipped with Laser plummet *

*Option for LN-160 only

Easy and fast! Anyone can do stake-out work!

Kui-Navi



Mobile phone is your controller. Complete survey by One-man operation.

The Mobile phone becomes the controller!

Coordinate data + Mobile phone or tablet device + 360° Prism

Anyone can use simple button.

Wireless antenna, Guide light, Wireless LED, Power switch, Laser plummet switch (LN-160 only feature), Wireless communication method selector switch (Bluetooth/WLAN), Reset switch, Wireless LAN selector switch, Battery, Operation panel, Self-leveling switch.

Backpack (optional)
A backpack for easy carrying is also available. Simple and safe Instrument transportation and setup, even on steep worksites such as mountainous areas.

Simple, Easy and straightforward operation



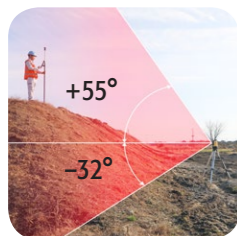
Easy instrument set up with Self-leveling

After the Power is turned ON, the instrument automatically starts leveling itself. No need to check the bubble level for the installation.



Easy guidance

The Guide light guides operator to recognize the stake-out line with clearly visible Green and Red lights.



Expanded range of measurement! Even sharp inclines are handled with ease

The tilt angle area has been expanded, with a maximum elevation angle of +55°, and a maximum depression angle of -32°. The measurement range is 260 m in diameter, ensuring sufficient working space for everything from ICT with construction machinery to stake-outs for civil engineering.



Android device as controller

Android device can be used as a controller of the instrument and measurement. The exclusive control software, "TopLayout" is a free software. Transferring the design coordinate data and the results between Android device and computer can be done by e-mail or cloud service.



Reduce working hours

The location of the prism is displayed on the mobile phone in real-time smoothly. (Update rate is 20 times per second)



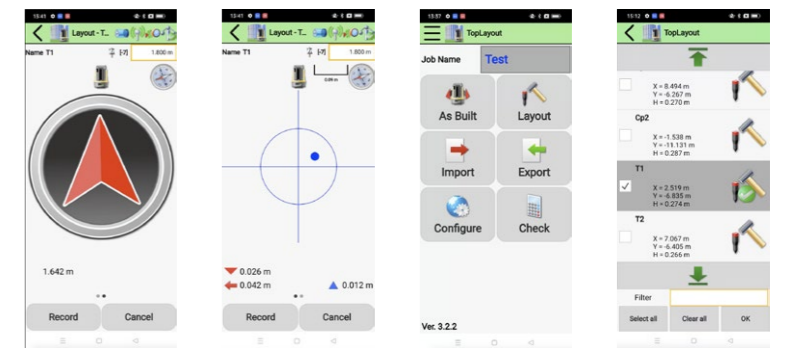
Usage times 120% longer compared with conventional models! Allows for 6 hours of continuous use per 1 battery

Improve energy use of the battery and increase continuous use time. Two batteries are included, so you can use it all day long as a reliable products.

Control Software for Android Device, "TopLayout"



A free software, downloadable from Google Play, controls Instrument orientation measurement, Topographic measurement, Layout operation/guidance, data transfer.



LN-160 Unique Features

Advanced model compatible with machine control and various software!!

- Laser Plummet
- External power supply port
- Machine Control Support
- Supported software TopLayout / Topcon Field / Topcon Digital Layout / Pocket 3D



Use for long hours with confidence! Equipped with an external power supply port

Equipped with an external power supply port. It is now possible to supply power to places without electrical outlets, such as construction sites, so you can use it with confidence during long periods of continuous work without any downtime.

