

LL300 Applications

- Elevation control across the construction site
- Excavations
- Basic slopes
- Leveling forms and footers
- Concrete pours
- 1 m (4 ft) marks

Spectra Precision Laser LL300



The Toughest Laser Level You'll Ever Own

Built for General Contractors who Need Accuracy, Ease of Use and Durability

The automatic, self-leveling Spectra Precision® Laser LL300 from Trimble is the most rugged laser level available, tough enough to handle a wide variety of general and concrete construction applications. Even in harsh job site conditions, the LL300 delivers consistently reliable and accurate performance, enabling you to work faster and smarter.

More contractors around the world use Spectra Precision Lasers to increase construction job site productivity and profitability than any other brand. Each comes with the solid dependability that has made the Spectra Precision Laser name the standard in the industry.

Rugged Construction Combined with Precise Accuracy and Ease of Use

We understand that those in the construction and concrete business are looking for products that are durable and reliable, day in and day out. The LL300 is designed with your needs in mind. The result is a product that can be operated in the rain and provides superior drop and weather protection.

The rugged LL300 is capable of surviving drops of up to one meter (three feet) onto concrete and tripod tips up to 1.5 meters (five feet). This strength, combined with full weatherproofing and dustproofing, results in reduced downtime and lower repair costs over the life of the product.

The LL300's self-leveling capability and optional RC601 remote control result in outstanding accuracy and ease of use. Since the LL300 levels itself when turned on, setting up is easy with fewer controls to deal with. The RC601 remote control

gives you the option of matching slopes or having slopes-on-grade. It also offers single-axis slope including laser's HI control with the other axis continuing to level itself.

Choice of Receiver

Choosing the right receiver ensures maximum performance from the LL300. You can customize the LL300 to your specific application needs with a choice of the HR300 or CR600 receivers.



HR300 Receiver

The Spectra Precision Laser HR300 receiver can be used either as a handheld or rod-mounted unit and is especially suitable for basic elevation control applications. Featuring durable and lightweight composite housing, the HR300 utilizes easy-to-read LCD and LED displays. It is exceptionally easy to use.

CR600 Receiver

Rugged, accurate and easy to use, the Spectra Precision Laser CR600 receiver is ideal for longer range leveling and basic machine control applications. In addition to use as a handheld and rod-mounted unit, the CR600 can be mounted on a backhoe, small excavator or skid steer for machine control with 270-degree reception. It provides highly visible high, low or on-grade information.



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LL300 Features & Benefits

- Increases productivity with fast setups, fewer controls, and automatic self-leveling
- Maintains performance even in rainy, dusty and other harsh job site and weather conditions
- Durable design reduces downtime due to drops and tripod tipovers
- Minimizes power costs, increases reliability with choice of rechargeable or alkaline batteries
- Increases flexibility with remote control slope option
- Customizable to your needs with choice of two receivers

LL300 Laser Specifications

Laser Source 635 – 670 nm visible
 Laser Accuracy ±15 arc seconds
 ±2.2 mm per 30 m (±3/32 in per 100 ft)
 Operating Receiver Range (Diameter)..... 300 m (1,000 ft)
 w/HR300 Receiver
 Self-Leveling Range ±5°
 Compensation Method Electronic Self Leveling
 Power Source..... 4 "D" NiCD or Alkaline Batteries
 Battery Life (20 °C / 68 °F) ... NiCd: 45 hours, Alkaline: 90 hours

Battery Status LED Flashing Red LED
 Battery Recharging Time Less than 10 hours
 Rotation Speed 600 rpm
 Out of Level (HI)-Warning..... Rotor stops, red out-of-level LED blinks
 Out of Level Warning at Receiver Programmable at dealer, with HR500 and CR600 receivers only
 Machine Control Compatible..... Yes
 Protective Rotor Cage..... Yes
 Drop Height on Concrete 1 m (3 ft)
 Single Axis Manual Slope Mode... Yes (w/self-leveling mode on the second axis), with optional RC601 remote control
 External Remote Control (RC601) Up to 50 m (164 ft)
 Tripod Mount (Horizontal and Vertical) 5/8"-11
 Operating Temperature..... -20 °C to 50 °C (-4 °F to 122 °F)
 Storage Temperature -20 °C to +70 °C (-4 °F to 158 °F)
 Warranty 1 year
 Waterproof Yes, IP54
 Size 24.5L x 16.5W x 18.5H cm (9.6L x 6.5W x 7.3H in)
 Weight 2.7 kg (6 lbs)



1. Protective rotor cage
2. Visible spotting beam
3. Remote control sensor for manual and single axis slope modes
4. Intuitive, one touch operator controls
5. Battery recharge port
6. 5/8 tripod mount
7. Optional RC601 remote control

HR300 Receiver Specifications

Drop Capable on Concrete..... 1.5 m (5 ft)
 Operating Range (diameter)..... 300 m (1,000 ft)
 Number of Display Channels 5
 Photocell Placement Rear
 On-grade sensitivities 2
 Decibel Level 100
 Low Battery Warning Yes
 Auto Shut-off (30 minutes)..... Yes
 Unit Weight (without clamp) 220 gr (7.7 oz)
 Unit Dimensions (DxWxL) . 2.5 x 7 x 12.7 cm (1 x 2.75 x 5 in)
 Warranty 1 year

CR600 Receiver Specifications

Seven On-Grade Sensitivities ... Ultra Fine 0.1 mm (0.004 in)
 Super Fine 1.0 mm (1/32 in)
 Fine 1.5 mm (1/16 in)
 Medium 3 mm (1/8 in)
 Coarse 6 mm (1/4 in)
 Machine Fine 10 mm (3/8 in)
 Machine Coarse 25 mm (1 in)
 Operating Temperature..... -20 °C to 50 °C (-4 °F to 122 °F)
 Battery Life (AA-3)..... 100 hours at normal operation
 Auto Shut-Off 30 minutes
 Weight 340 g (12 oz)
 Reception Angle..... 270 degrees
 Out-of-level warning Yes
 Waterproof 100%



HR300



CR600



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