

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 jobsite conditions, the LL300 laser 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 laser 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 rotating laser 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 laser can withstand drops of up to one meter (three feet) onto concrete and tripod tipovers up to 1.5 meters (five feet). This strength, combined with full weatherproofing and dustproofing, reduces downtime and lowers repair costs over the life of the product. The LL300 laser's self-leveling capability and optional RC601 remote control result in outstanding accuracy and ease of use. Since the LL300 laser levels itself when turned on,

setup 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 HI warning control with the other axis continuing to level itself.

Choice of Receiver

Choosing the right receiver ensures maximum performance from the LL300 laser. You can customize the LL300 laser to your specific application needs with a choice of the HR350 or CR600 receivers.

HR350 Receiver

The Spectra Precision Laser HR350 receiver can be used either as a handheld or rod-mounted unit and is especially suitable for basic elevation control applications. Exceptionally easy to use, the rugged HR350 receiver features a durable, lightweight composite housing, and easy-to-read dual LCDs and simultaneous LED displays with green on-grade indication.

CR600 Receiver

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 receiver can be mounted on a backhoe, small excavator or skid steer for machine control with 270° reception. It provides highly visible high, low or on-grade information.



Spectra Precision Laser LL300



The Toughest Laser Level You'll Ever Own

LL300 Laser 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, Class 3A/3R
Laser Accuracy	±18 arc seconds
	±2.6 mm per 30 m (±3/32 in per 100 ft)
Operating Receiver Range (Diameter)	300 m (1,000 ft)
	w/HR350 Receiver
Self-Leveling Range	±5°
Compensation Method	Electronic Self Leveling
Power Source	4 "D" NiCad or Alkaline Batteries
Battery Life (20 °C / 68 °F)	NiCad: 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 HR550 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 (Operating Range)	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 × 16.5W × 18.5H cm (9.6L × 6.5W × 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



HR350 Receiver Specifications

Drop Capable on Concrete	1.5 m (5 ft)
Operating Range (diameter)	300 m (1,000 ft)
Number of Display Channels	5
Displays	LCDs Front & Rear, 3 LEDs Front
On-grade sensitivities	2
Decibel Level	100
Low Battery Warning	Yes
Battery Life (AA-2)	70 hours
Auto Shut-Off	30 minutes
Water Resistance	IP67
Weight (without clamp)	250 gr (8.8 oz)
Dimensions (D×W×L)	2.5 × 7 × 13.5 cm (1 × 2.75 × 5.32 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 Range (diameter)	300 m (1,000 ft)
Operating Temperature	-20 °C to +50 °C (-4 °F to 122 °F)
Number of Display Channels	15 (Linear)
Battery Life (AA-3)	100 hours
Auto Shut-Off	30 minutes
Weight (without clamp)	340 g (12 oz)
Displays	Large Front LCD, Ultra Bright Front LED Clusters
Reception Angle	270°
Out-of-level warning	Yes
Waterproof	100%



HR350 Receiver



CR600 Receiver



ACCUPOINT INC.
Construction & Survey Supply
RENTAL SALES REPAIR TRAINING
907-522-1600

YOUR LOCAL SPECTRA PRECISION LASER REPRESENTATIVE

NORTH AMERICA
Trimble Construction Division
5475 Kellenburger Road • Dayton, Ohio 45424 • USA
800-538-7800 (Toll Free)
+1-937-245-5154 Phone • +1-937-233-9441 Fax

EUROPE
Trimble GmbH
Am Prime Parc 11 • 65479 Raunheim • GERMANY
+49-6142-2100-0 Phone • +49-6142-2100-550 Fax

ASIA-PACIFIC
Trimble Navigation Australia PTY Limited
Level 1/120 Wickham Street • Fortitude Valley, QLD 4006 • AUSTRALIA
+61-7-3216-0044 Phone • +61-7-3216-0088 Fax

www.trimble.com/spectra

