

LL500 Applications

- Checking and adjusting elevations
- Taking grade shots
- Excavating cutting depth
- Basement excavation
- Digging septic tanks
- Checking foundations
- Digging footings
- Setting forms
- Checking sub-base materials
- Screeding concrete
- Slope on grade

Spectra Precision Laser LL500



Rugged, Reliable Laser Leveling Systems

Setting the Industry Standard

Accurate, stable and very reliable, the Spectra Precision® Laser LL500 is the ideal one-person leveling system for a range of everyday elevation measurements on the construction site.

Designed for use on the jobsite, and reliability even in the harshest of conditions, today more contractors around the world use Spectra Precision Lasers to increase productivity and profitability.

One Laser Levels Your Entire Work Area

The LL500 transmitter sends a continuous, self-leveled 360-degree laser reference over a work area, up to a 500-meter (1,600-foot) diameter. With the LL500, you can perform any two-person leveling task with just one person. Simply set up the laser transmitter anywhere on your job site; it transmits a laser beam to provide an elevation reference that can be picked up by one or more laser receivers, including our innovative HR550 or CR600, whether they are handheld, attached to a grade rod or mounted on a machine.

HR550 Receiver

The Spectra Precision Laser HR550 receiver is ideal for use with the LL500 transmitter. This flexible and highly innovative receiver can be used either as a hand-held or rod-mounted unit. The HR550 features a unique anti-strobe sensor that stops construction lights from setting off the receiver, and makes it easier to identify true laser beam signals. The rugged, weatherproof housing withstands a drop of up to 3 m (10 ft) onto concrete. The highly visible LED display and dual-sided laser reception allow you to work anywhere.



CR600 Receiver

Another receiver option is the Spectra Precision Laser CR600. In addition to handheld and rodmounted capabilities, the CR600 can be used as a machine-mounted receiver with 270-degree reception and a highly visible display for use on a backhoe, small excavator or skid steer. Improving accuracy, safety and efficiency, the CR600 delivers grade information to the operator right in the cab.

LL500 Benefits

- Meets your toughest accuracy requirements.
- Reduces the amount of time required for each grade shot, so more grade shots are taken for increased accuracy.
- Eliminates rework caused by miscommunication or out-of-level instruments with built-in out-of-level warning and shut-off.
- Immediately locates the laser plane with the visible spotting beam.



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LL500 Laser Specifications

Self-Leveling Range ± 11 arc minutes
Compensation Type Wire Hung, Air Damped
Accuracy	..... ±10 arc seconds, 1.5 mm at 30 m (1/16 in at 100 ft)
Laser Type	..... 670 nm visible, Class II
Machine Control Compatible	..... Yes
Warranty	..... 2 Years Use-and-Abuse
Solar Power Option	..... Yes
Battery Life 20°C (68°F)	..... 4 D-Cell Alkaline 80 hrs, Ni-Cad (4.4 Ahr) 27 hrs
Operating Diameter	..... 500 m (1,600 ft)
Operating Temperature	..... -20°C to 50°C (-4°F to 122°F)
Weight	..... 3.6 kg (8 lbs)
Tripod Mount	..... 5/8 in x 11

HR550 and CR600 Receiver Features

- 15-channel linear LCD display allows for fast, accurate readings and easy fixed offsets.
- Simultaneous 5-channel green and red LED display ensures that information can be read even in poor light, over long distances, and at an angle.
- Dust and waterproof housing can withstand a drop of up to 3 m (10 ft) onto concrete.
- The HR550 features dual-sided photocells which let you receive the beam from multiple directions and maintain convenient control and view of the receiver
- The CR600 wraparound receiver cells offer continuous pickup through an operating range of 270° for reduced setups and improved productivity, especially in machine applications.

HR550 Receiver Specifications

Five 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)
Operating Temperature	..... -20°C to 50°C (-4°F to 122°F)
Battery Life (AA-2)	..... 100 hours at normal operation
Auto Shut-Off	..... 30 minutes
Weight	..... 0.27 kg (9 1/2 oz)
Reception Angle	..... 180 degrees
Anti-strobe sensor	..... Yes
Dust and Waterproof	..... Yes



HR550



CR600

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	..... 0.5 kg (1.1 lb)
Reception Angle	..... 270 degrees
Dust and Waterproof	..... Yes



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

