

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 reliable 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 HL700 or CR600, whether they are handheld, attached to a grade rod or mounted on a machine.

LL500 Benefits

- Temperature compensation allows you to meet your toughest accuracy requirements in any type of variable environmental conditions.
- 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.



HL700 Laserometer

The Spectra Precision Laser HL700 Laserometer uses new technology to measure and display beam location and is ideal for use with the LL500 transmitter. The HL700 features a digital readout of elevation that shows exactly how far you are from on-grade allowing quick elevation checks without moving the rod clamp. An anti-strobe sensor stops construction lights from setting off the receiver, and makes it easier to identify true laser beam signals. The protective over molded housing withstands a drop of 3 m (10 ft) onto concrete. The highly visible LED display and dual sided LCD's allow you to work anywhere.

CR600 Receiver

Another receiver option is the Spectra Precision Laser CR600. In addition to handheld and rod mounted 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.



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LL500 Laser Specifications

Self-Leveling Range	± 11 arc minutes
Compensation Type	Wire Hung, Air Damped
Accuracy	1.5 mm at 30 m (1/16 in at 100 ft) ±10 arc seconds
Temperature Compensation	Yes
Laser Type	670 nm visible, Class II
Machine Control Compatible	Yes
Battery Life 20°C (68°F)	4 D-Cell Alkaline - 175 hrs NiMH - 100 hrs, NiCad - 75 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
Warranty	5 Years

HL700 Laserometer Features

Digital readout of elevation shows how far from on grade without moving the rod clamp.
Large 127 mm (5 inch) reception height acquires the beam quickly and keeps you in the laser beam.
CAPTURE function remotely acquires and retains a measurement when the display is difficult to see.
Extremely tough - can withstand a drop of 3 m (10 ft) onto concrete and has a 3 year warranty to back it up.

CR600 Receiver Features

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.
Magnetic mount is included for fast machine mounting and holds the receiver firmly in place.
The CR600 wraparound receiver cells offer continuous pickup through an operating range of 270° for reduced setups and improved productivity, especially in machine applications.



HL700 Laserometer Specifications

Six On-Grade Sensitivities	Ultra Fine 0.5 mm (1/32 in) Super Fine 1 mm (1/16 in) Fine 2 mm (1/8 in) Medium 5 mm (1/4 in) Coarse 10 mm (1/2 in) Calibration Mode 0.1 mm (1/64 in)
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Battery Life (AA-2)	60+ hours continuous operation
Auto Shut-Off	30 minutes/24 hours
Weight	0.27 kg (9 1/2 oz)
Reception Height	127 mm (5 inches)
Anti-strobe sensor	Yes
Dust and Waterproof	Yes
Warranty	3 Years "No Excuses"

HL700



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
Warranty	2 Years

CR600



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