

## LL400 Applications

- Excavations
- Slopes on grade
- Leveling forms and footers
- Screeding concrete
- Driveways and ramps
- Machine control

## Spectra Precision Laser LL400 Laser Level



### A New Standard in Rugged Construction and Precise Accuracy

#### Durable, highly accurate laser level withstands the toughest job site

The fully automatic, self-leveling Spectra Precision® Laser LL400 sets a new standard in rugged reliability, handling a wide variety of general and concrete construction applications. Even in tough job site conditions, the LL400 consistently delivers reliable, accurate performance to increase your overall productivity and cost-savings.

The LL400 Laser Level features easy, one-button operation for basic leveling and provides reliable, highly accurate, long-range measurements, even for machine control applications.

The LL400 is designed to be durable and reliable, day in and day out, and features superior drop and weather protection. The rugged LL400 can withstand drops of up to 1 meter (three feet) onto concrete and tripod tip-over up to 1.5 meters (five feet). This strength, combined with full weatherproofing and dust-proofing, results in reduced downtime and lower repair costs.

The LL400's self-leveling capability and optional RC601 remote control provide outstanding accuracy and ease of use. Since the LL400 levels itself when turned on, setting up is easy with fewer controls to deal with. The LL400 also features a single-axis slope mode to allow slopes on grade, while maintaining accuracy. Grade matching can also be performed by one person using the optional RC601 remote control.

#### Choice of Receiver

You can customize the LL400 to your specific application needs with a choice of the HL700 or CR600 receivers.

#### HL700 Laserometer

The Spectra Precision Laser HL700 Laserometer uses new technology to measure and display beam location and is ideal for use with the LL400 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

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.

#### LL400 Features & Benefits

- Fast setup, minimal training time and automatic self-leveling minimize operating costs and boost productivity
- Highly rugged design and patented lighthouse seal protects the rotor head and glass and offers superior drop and weather protection for reduced downtime
- Single-axis slope mode provides grade matching with self-leveling cross axis for improved accuracy
- Energy-efficient design offers choice of rechargeable or alkaline batteries for lower operating costs



# Spectra Precision Laser LL400 Laser Level



## A New Standard in Rugged Construction and Precise Accuracy

### LL400 Features and Benefits

- Increases productivity with fast setups, fewer controls, and automatic self leveling
- Unique lighthouse design withstands a 1.0 m (3 ft) drop on concrete without breakage. The durable design reduces downtime due to drops and tripod tipovers.
- Temperature calibrated for high accuracy over wide temperature changes
- Single axis and manual slope modes to match known references. Slopes can be set up to 200 m (650 ft) away with the optional remote control.
- IP66 dust and water proof to withstand harsh jobsite conditions
- Flexible power options and minimal power costs due to long battery life
- Customizable to your needs with a choice of two receivers

### LL400 Laser Specifications

Laser Source ..... 650 nm visible, Class 2  
 Laser Accuracy ..... ±1.5 mm at 30 m (±1/16 in at 100 ft)  
 Operating Receiver Range  
 (Diameter) w/HL700 receiver ..... 800 m (2,600 ft)  
 Compensation Method ..... Electronic self-leveling

Temperature Calibrated ..... Yes  
 Self-Leveling Range ..... ±5 degrees  
 Machine Control Compatible ..... Yes  
 Ruggedized lighthouse ..... Yes  
 Drop Height on Concrete performance ..... 1 m (3 ft)  
 Remote Control Range  
 (Optional RC601) ..... 200 m (650 ft) –X side,  
 up to 50 m (160 ft) all other sides  
 Single Axis Slope Mode ..... Yes (both axes)  
 Out of Level (HI) Warning ..... Yes  
 Power Source ..... 4 "D" Alkaline Standard, NiMH Optional  
 Battery Life ..... 90 hours Alkaline, 55 hours NiMH  
 Battery Status LED ..... Flashing red LED  
 Battery recharging time ..... Less than 10 hours  
 Rotation Speed ..... 600 RPM  
 Tripod Mount (Horizontal and Vertical) ..... 5/8" x 11  
 Out-of-Level warning ..... Rotor stops, laser shuts  
 off, red HI-alert LED flashes  
 Operating Temperature ..... -20 to +50°C (-4 to +122°F)  
 Storage Temperature ..... -20 to +70°C (-4 to 158°F)  
 Dust and Waterproof ..... Yes, IP66  
 Size ..... 21L x 18W x 20H cm (8.3L x 7.1W x 7.9T in)  
 Weight ..... 3.1 kg (6.8 lbs)  
 Warranty ..... 2 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.  
 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 in machine applications.



HL700



CR600

### Specifications

	HL700	CR600
On-Grade Sensitivities	Ultra Fine 0.5 mm / 1/32 in Super Fine 1.0 mm / 1/16 in Fine 2.0 mm / 1/8 in Medium 5.0 mm / 1/4 in Coarse 10.0 mm / 1/2 in Calibration 0.1 mm / 1/64 in	Machine Fine 10 mm (3/8 in) Machine Coarse 25 mm (1 in)
Readout Units of Measure	mm, cm, ft, in, fractional in	
Operating Temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 50°C (-4°F to 122°F)
Battery Life	60+ hours continuous operation	100 hours normal operation
Auto Shut-Off	30 minutes/24 hours	30 minutes
Weight	0.27 kg (9.5 oz)	0.5 kg (1.1 lb)
Reception Height/Angle	127 mm (5 in) / 90°	114 mm (4.5 in) / 270°
Anti-strobe sensor	Yes	No
Dust and Waterproof	Yes (IP67)	Yes
Warranty	3 Years "No Excuses"	2 Years

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