

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

Choosing the right receiver ensures maximum performance from the LL400. You can customize the LL400 to your specific application needs with a

choice of the HR550 or CR600 receivers.

The Spectra Precision Laser HR550 receiver complements the LL400 Laser Level by giving the contractor more versatility on the job site. This flexible and innovative receiver can be used either as a handheld 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 receiver is designed for tough construction site conditions; its rugged, weatherproof housing withstands a drop of up to 3 m (10 ft) on concrete for reduced downtime.

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
- Customizable to your needs with choice of two receivers



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 Source650 nm visible, Class 2
Laser Accuracy ± 1.5 mm at 30 m ($\pm 1/16$ in at 100 ft)
Operating Receiver Range
(Diameter) w/HR550 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, green out-of-level LED flashes
Operating Temperature -20 to +50°C (-4 to +122°F)
Storage Temperature -20 to +70°C (-4 to 158°F)
Warranty 2 years
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)



HR550 Receiver Features

- Unique anti-strobe sensor stops construction strobe lights from setting off the receiver, and eliminates phantom strikes for easier identification of true laser beam signals.
- Dual photocells receive the beam from multiple directions allowing the operator to control and view the receiver from a convenient location.
- 15-channel linear display allows fast, accurate reading and easy fixed offsets, and eliminates the need to get "on-grade" to make measurements.
- Simultaneous elevation LEDs signal in low light levels and over a longer range provide easier reading in poor light than backlit LCDs and reduce power consumption.

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 (2-AA) 100 hours at normal operation
Auto shut-off 30 minutes
Weight 0.27 kg (9 1/2 oz)
Reception angle 170 degrees
Anti-strobe sensor Yes
Dust & waterproof Yes



Specifications subject to change without notice.



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