

# GL522/GL512

# Grade Lasers



- Automatic electronic self-leveling
- Large compensated grade range from -10% to +15%
- Single and Dual grade application
- Electronic leveling vibration filter
- Automatic temperature and grade compensation
- Automatic Grade Matching
- PlaneLok
- Mask mode
- High capacity NiMH battery pack

The Spectra Precision® Laser GL512 single grade and GL522 dual grade transmitters are rugged, cost-effective, automatic self-leveling lasers that do three jobs—level, grade, and vertical alignment.

Both the GL512 and GL522 include a 2-way, full-function radio remote control with a built-in back-lit grade display. You can do everything with the remote control that you can do at the laser keypad, up to 100 m (330 ft) away from the laser—even from the cab of a machine! The ability to make grade changes from anywhere on the job greatly reduces setup time and speeds operation. Verbal and visual communication errors are eliminated.

New wireless communication between the HL750 Laserometer and the transmitters provide automatic Grade Matching. Grade Matching allows measurement of unknown grade values between two points. PlaneLok is also available in both the horizontal and vertical planes. PlaneLok automatically locks the beam on the receiver and keeps it on grade. This eliminates all environmental factors that may induce an error.

The GL512 and GL522 Grade Lasers self-plumb in the vertical position to allow an even wider range of applications such as anchor bolt installation, tilt up, and curtain wall plumbing.

Both units incorporate automatic temperature and grade compensation for high accuracy in any weather or geographical location. Also, the laser beam can be turned off electronically on up to 3 sides of your choice. This capability eliminates interference with other crews on the jobsite by keeping the beam from straying into other areas.

The GL522 offers an additional advanced feature that stops the rotation and points the laser along one axis for “Over the Top” pipe laying applications.

The GL512 and GL522 packages include the laser, RC402 remote, choice of either a HL750 or a CR600 receiver with clamps, NiMH rechargeable batteries & charger, and hard shelled carrying case.

## GENERAL SPECIFICATIONS

### Laser type/class

<5 mW 635 nm, Class 3A/3R (GL522)  
3 mW 650 nm, Class 2 (GL512)

### Drop height on concrete

1 m (3 ft)

### Operating diameter

(w/ HL750) 800 m, 2,600 ft (GL522)  
600 m, 2,000 ft (GL512)

### Compensation method

H/V Electronic Self Leveling

### Temperature compensation

Yes, every 5 °C

### Level / vertical accuracy

10 arc seconds  
1.5 mm @ 30 m (1/16" @ 100 ft)

### Grade range

-10 to +15% Dual Axes (GL522)  
-10 to +15% Single Axis (GL512)

### Grade accuracy

0.015% 3 mm@30 m (1/8" @ 100 ft)

### Grade resolution

0.001% up to 9.999%,  
0.01 % at higher grades

### Grade compensation

Yes

### Transmitter battery life

(4 x D NiMHs)  
55 hours

### Mask mode

User selectable to any window, 3 max.

### Remote control type

Full 2-way communication,  
operation and security lock with transmitter

### Remote control range

100 m (330 ft) radius

### Rotation speed

0 (GL522), 300, 600 RPM selectable

### RC402 battery Life

(2 x AA Alkaline)  
130 hrs continuous  
1 year under normal use

### Standby mode

Yes

### Display backlight

Yes, auto shutoff after 8 seconds

### Mounting threads

5/8" x 11 Horizontal and Vertical

### Operating temperature

-20° to +50°C (-4° to 122°F)

### Dust and waterproof

Yes - IP66

### Dimensions

21L x 18W x 20H cm (8.3L x 7.1W x 7.9H in)

### Weight

3.1 kg (6.8 lb)

### Warranty

2 Years

Available at authorized Spectra Precision dealers