

## GL512 and GL522 Applications

- Leveling concrete forms and footers
- General construction vertical alignment and plumb such as anchor bolt and form alignment
- Grading and excavating
- Sports fields, tennis courts, driveways
- "Over the Top" sewer and storm drain pipe installations
- Steep slope road embankments and ditch banks
- Trenching and drainage

## HL750 Applications

- Remote grade checking with cable free Remote Display
- Wireless monitoring of foundations and steel erections
- Risk free monitoring of tilt up wall position

## Spectra Precision Laser GL512 and GL522



### High Performance Grade Lasers with 2-Way Radio Offers Superior Grade, Level, and Vertical Capabilities

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 feature a 2-way, full-function 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 operations.

New wireless communication between the HL750 Laserometer and the transmitter provides automatic Grade Matching and PlaneLok.

Grade Matching allows you to measure the unknown grade value between two points. Simply set your receiver at the same height as the transmitter, then go to your remote point, press a button on the wireless remote and the transmitter automatically matches and displays the grade. There is no need to return to the laser transmitter.

For applications that require maximum stability and accuracy, PlaneLok virtually eliminates beam drift by locking the beam to a fixed elevation or vertical alignment point. Set the HL750 at the desired elevation or point, select PlaneLok mode and the laser beam will remain exactly at that elevation or vertical alignment point all day long regardless of wind or temperature changes. This increased stability and accuracy means less rework, better material control, and a better bottom line.

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 job site 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.

All packages include either the HL750 Laserometer with advanced radio communications or the CR600 machine or rod mounted combination laser receiver for fast and easy machine control display.

### Spectra Precision Laser HL750 Laserometer

The HL750 Laserometer uses new technology to measure and display beam location. The HL750 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. The large 127 mm (5 inch) reception height speeds up beam pickup in grade match and alignment applications. 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.

Radio communication allows working with another HL750 for long range remote display and monitoring capability.



# Spectra Precision Laser GL512 and GL522



## Maximum Versatility for Leveling, Grading, and Vertical Alignment

### GL512 and GL522 Features

- Automatic electronic self-leveling provides fast, easy level, grade, and vertical alignment setups
- Single or dual grade application capability
- Full function 2-way radio remote control has the same functions and display as the laser keypad
- Very long operating range – 800 m (2,600 ft) diameter (GL522) for increased machine control capability and fewer setups over the jobsite
- Radio communication between the HL750 and the laser provide automatic Grade Matching and PlaneLok
- Electronic Leveling Vibration Filter dampens vibrations typically experienced in high winds or on high vibration job sites
- Automatic temperature and grade compensation keep the units accurate throughout the day or night
- Very rugged with low service costs; takes a drop of up to 1 m (3 ft) onto concrete
- Mask mode eliminates interference with other crews on the jobsite
- Pointing mode allows “Over the Top” pipe laying for house connections (GL522)
- High capacity Nickel-Metal Hydride battery pack reduces operating costs

### 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, 2600 ft (GL522)  
 600 m, 2000 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

### HL750 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
- Works with another HL750 for long range wireless remote display and monitoring - even when the 2nd receiver is out of sight (up to 260 ft or 80 m)
- Machine operators can monitor elevation shots taken by another person from the safety of the cab or foremen can monitor elevations and cut/fill readings from anywhere on the jobsite
- Works with the GL512 or GL522 in automatic Grade Match and PlaneLok applications
- Extremely tough - can withstand a drop of 3 m (10 ft) onto concrete and has a 3 year warranty
- Anti strobe sensor prevents false reading from job site strobe lights



HL750

### HL750 Laserometer Specifications

Digital readout units . . . . . mm, cm, ft, in, frac. in  
 Reception height . . . . . 127 mm (5 inches)  
 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)  
 Battery life (2 x AA) . . .60+ hours continuous operation  
 Auto shut-off . . . . . 30 minutes/24 hours  
 Operating temperature . . . -20°C to 50°C (-4°F to 122°F)  
 Dust and waterproof . . . . . Yes - IP67  
 Weight . . . . . 0.27 kg (9.5 oz)  
 Warranty . . . . . 3 Years "No Excuses"



RC402

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



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