

GL612/GL622

For Grading and Excavating

- The Spectra Precision® Laser GL600 Series Grade Lasers give you the tools you need to complete grading and excavating jobs quicker and with more accuracy.
- Complex alignments are automatic and easy to perform. The powerful, long-range remote control option means it only takes one person to set up and operate the grade laser. And you can control all of the transmitter functions without leaving the machine cab.
- Construction-tough Spectra Precision lasers provide years of durable, precise performance with Trimble® GCS900 Grade Control Systems, GCSFlex™ Grade Control Systems, and laser-based compact machine solutions.



Easy-To-Use, Full Featured Automatic Grade Lasers



The Spectra Precision GL612 single grade and GL622 dual grade lasers are automatic self-leveling, rugged and cost-effective. An intuitive keypad and graphic display make the grade lasers easy-to-use, reducing set up time and increasing productivity. A matching remote control also simplifies all level, grade, and vertical alignment setup tasks.



Key Features

Ultimate Control of X/Y Axes

- Fully automatic up to +/-25% grade
- Automatic Axis Alignment Features
 - X- or Y- Axis Alignment (GL622 only)
 - X- or Y- Grade Matching (GL612 Y-Axis only)
 - X- or Y- PlaneLok (GL612 Y-Axis only)
 - Simplified Grade Match: measures and displays the existing grade over unknown ground
 - Complete PlaneLok: automatically locks on the laser beam to an existing elevation
- Alignment range for both axes is +/-40°
- Fully automatic vertical leveling

Built for Today's Jobs

- Withstands a 1 meter (3 foot) drop onto concrete
- Long operating range - 800 meter (2600 foot) diameter
- Intuitive keypad and graphic display
- Password secured
- Mask mode
- Various power options
- Automatic temperature compensation
- Electronic leveling vibration filter

User Benefits

- Quickly adapts to site requirements
- Simplifies level, grade and vertical alignment setups
- Reduces time to do steep slope work and drainage installation
- Increases reliability, accuracy and durability
- Economize operating costs



GL612/GL622 – Maximum Versatility for Leveling, Grading and Vertical Alignment

GL612/GL622 Specifications

- Leveling accuracy^{1,3}: ± 0.5 mm/10 m, 1/16" @ 100 ft, 10 arc seconds
- Grade accuracy^{1,3}: ± 1.0 mm/10 m, 1/8" @ 100 ft, 20 arc seconds
- Operating diameter^{1,2}: appr. 800 m (2600 feet) with detector
- Grade range GL622 +/- 25% both axis
GL612 +/- 25% Y axis only
- Rotation: GL612: 300, 600, 900 rpm /
GL622: 0 to 900 rpm
- Scan mode: 5 preset ranges variable adjustment (GL622)
- Laser type: red diode laser 650 nm
- Laser class : GL612 Class 2, <3.2 mW /
GL622 Class 3A/3R, <5 mW
- Self-leveling range: appr. ± 14°
- Leveling indicators: LCD indications and LED flashes
- Radio range (HL750): up to 80 m (260 ft)
- Power source: NiMH battery pack
- Battery life¹: 35 hours NiMH; 40 hours alkaline
- Operating temp.: -20°C to 50°C (-4°F to 122°F)
- Storage temp.: -20°C to 70°C (-4°F to 158°F)
- Tripod attachments:
5/8 x 11 horizontally and vertically
- Dust and waterproof: Yes - IP67
- Weight: 3.1 kg (6.8 lbs)
- Low voltage indication: LCD battery indicator
- Low voltage disconnection: unit shuts off
- Warranty: 5 Years

HL750 Laserometer

- Works with GL612/GL622 in automatic Axis Alignment (only GL622), Grade Match and PlaneLok applications
- Key Features:
 - Digital readout of elevation
 - Exact distance from grade displayed
 - Anti-strobe sensor to prevent false reading from jobsite strobe lights
 - Large reception height to ease beam reception
 - Withstands a drop of up to 3 m (10 ft)
- User Benefits:
 - No need to go "on-grade" to measure
 - Saves considerable time
 - Reduces rework by allowing remote monitoring
 - Increases reliability, accuracy and durability

RC602 Remote Control Specifications

- Operating range^{1,3}: up to 100 m (330 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life¹: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 lbs)

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 temp.: -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

⁽¹⁾ at 21° Celsius (70° F)

⁽²⁾ under optimal atmospheric circumstances

⁽³⁾ along the axis



RC602 Radio Remote Control for all applications



HL750 Laserometer to measure and display beam location

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