GL612N/GL622N /GL622IR

Applications

General Construction

- Single or Dual slope grading and steep slope excavating
- Leveling concrete forms and footers
- Vertical alignment such as wall, columns and form alignment (GL612N/GL622N)
- Slope work for sports fields, tennis courts, driveways, parking garages, ramps

Pipe and Drainage Installations

- Over-the-Top sewer and drainage pipe installations
- Trenching and drainage



Easy-To-Use, Full Featured Automatic Grade Lasers







The Spectra Precision® GL612N single grade and GL622N/GL622IR dual grade lasers are automatic self-leveling, rugged and cost-effective. An intuitive keypad and graphic display make all grade and alignment functions easy to use and greatly reduces setup time and increases 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 on X/Y axes
- Automatic Axis Features
  (X Axis - only GL622N/GL622IR)
  - High Precision Axis Alignment (only GL622N/GL622IR)
  - 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 (not GL622IR)

Built for Today's Jobs

- Withstands a 1 m (3 ft) drop onto concrete
- Long operating range - 800 m (2.600 ft) diameter
- Long operating radio range - 150 m (490 ft)
- 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 alignment setups
- Reduces time to do steep slope work and drainage installation
- Increases reliability, accuracy and durability
- Economize operating costs

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GL612N/GL622N/GL622IR – Maximum Versatility for Leveling, Grading and Alignment

GL612N/GL622N/GL622IR 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
- Grade temperature drift sensitivity: ± 0,3 mm / 10 m / 1°C; 1/16” @ 310 ft. @ 1°F
- Operating diameter[1,2:] appr. 800 m (2600 feet) with detector
- Grade range (Y, X-GL622N/GL622IR): ± 25% both axes (not simultaneously)
- Rotation: 300, 600, 750 rpm
- Laser type: 639 nm (GL622IR: typ.830 nm)
- Laser class : Class 2 (GL622IR: class 1)
- Self-leveling range: appr. ± 14°
- Leveling indicators: LCD indications and LED flashes
- Radio range (HL760)[1,2,4]: up to 150 m (490 ft)
- Power source: NiMH battery pack
- Battery life[1]: 35 hours NiMH (GL622IR: 40 hours NiMH)
- 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

HL760 Digital Readout Receiver

- Highly versatile receiver for basic and advanced leveling and aligning applications
- Works with GL612N/GL622N/GL622IR in automatic Axis Alignment (only GL622N/GL622IR), 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 3m (10ft)
  - Radio communication - works with another HL760 for long range wireless remote display and monitoring capability
  - “Fingerprint” function of the HL760 DRO receiver only accepts the beam from the laser it is paired with
- User Benefits:
  - No need to go “on-grade” to measure;
  - Saves considerable time
  - Reduces rework by allowing remote monitoring
  - Increases reliability, accuracy and durability

RC602N Remote Control Specifications

- Operating range[1,2,4]: up to 150 m (490 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life[1]: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 lbs)

HL760 Receiver 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 “No Excuses”

[1] at 21° Celsius (70° F)
[2] under optimal atmospheric circumstances
[3] along the axis
[4] Heigt of instruments 1m (e.g. with tripod)



RC602N Radio Remote Control for all applications



HL760 Digital Readout Receiver to measure and display beam location

Contact Information:

NORTH AMERICA
Spectra Precision (USA) LLC
3265 Logistics Lane, Suite 200 • Dayton, Ohio 45377 • USA
Toll Free +1-888-527-3771
www.spectraprecision.com

EUROPE
Spectra Precision (Kaiserslautern) GmbH
Am Sportplatz 5 • 67661 Kaiserslautern • Germany
Phone +49-6301-711414 • Fax +49-6301-32213

To locate your nearest distributor, please visit the Dealer Locator section at www.spectraprecision.com
Specifications and descriptions are subject to change without notice.

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