

Spectra Precision Laser GPlus



Leveling Plus Grading in an Affordable Package

It All Adds Up to a Great Value

The Spectra Precision Laser GPlus is a cost-effective laser that performs two functions: leveling and grading. Add AccuGuard accuracy to the equation and the result is one of the best construction laser values on the market today.

The GPlus transmitter sends a continuous, self-leveled 360-degree laser reference over your entire work area. Thanks to the visible beam of the GPlus, you can perform alignment positioning quickly and easily. With a grade range of 0.10 to 25 percent, the GPlus is a practical choice for any construction site but is especially suitable for residential and small commercial sites.

Use this versatile unit with the Spectra Precision Laser HR500 receiver at an operating diameter up to 800 meters (2,600 feet). Other features of the GPlus include the SafeGuard service warning and the LaserGuard™ two-year use-and-abuse warranty.

HR500 Receiver

The Spectra Precision Laser HR500 receiver is ideal for use with the GPlus transmitter. This flexible and highly innovative receiver can be used either as a handheld or rod mounted. The HR500 features a fully waterproof magnesium housing that is both lightweight and capable of surviving a drop of up to 3 meters (10 feet) onto concrete. Ideal for accurate elevation measurements across the jobsite, it is exceptionally easy to use. The highly visible LED display and dual-sided laser reception allow you to work where it is convenient, even in the poorest of conditions.



GPlus Benefits

- Eliminates manual grade calculations
- Ideal for shorter range grading applications
- Provides early service warning
- Provides exceptional versatility
- Suitable for alignment tasks
- Easy setup and operation



GPlus Applications

- Small concrete sections needing grade for run-off
- Short-run residential drainage tiles
- Driveways and gas stations
- Short-run sewer connections
- Ditch banks up to 25% grade
- Setting forms
- Moving dirt for site grading
- Laying pipes for leach fields



Spectra Precision Laser GPlus

Grade Laser System from Trimble



GPlus Features

- Grade capability
- AccuGuard Compensator
- SafeGuard Service Warning
- Machine-control capability
- Visible beam

GPlus Specifications

Laser Type/Classification	635 nm, Class IIIa, CDRH and IEC 825
Self-Leveling Range	±11 arc minutes
Horizontal Leveling	±8 arc seconds
Accuracy	<±1.6 mm per 30 m (<±1/16 inch per 100 ft)
Operating Diameter	120 m (400 ft) visually, 800 m (2,600 ft) w/receiver
Rotation Speed	0, 50, 300, and 600 rpm
Grade Range	0.10% to 25.00%
Grade Increments	0.01% steps from 0.10% to 2.50% 0.02% steps from 2.52% to 5.00% 0.05% steps from 5.05% to 10.00% 0.10% steps from 10.10% to 25.00%
Grade Accuracy (at 2.50%)	±10 mm per 30 m (±3/8 inch per 100 feet)
Power Source	4 D-cell 1.2 V alkaline or 1.5 V Ni-Cad
Battery Life	Alkaline: 120 hours Ni-Cad: 45 hours
Auto Shutoff	30 minutes if unit is not level in grade or modes
Tripod Screw	5/8-11
Operating Temperature	-20° to 50°C (-4° to 122°F)
Storage Temperature	-40° to 60°C (-40° to 140°F)
Weight	2.9 kg (6.5 lb)
Size	19 x 16 x 24.1 cm (7 1/2 x 6 x 9 1/2 inch)
Warranty	LaserGuard™ 2 Year Use-and-Abuse

1. Power Button
2. Liquid Crystal Grade Display (LCD)
3. Mode Button
4. Grade/Rotation Control Buttons
5. Level LED
6. Leveling Screws
7. Leveling Screws LEDs
8. Battery Recharging Jack
9. SafeGuard LED
10. Upgrade Indicator
11. Pointing-Control Knob



HR500 Receiver Features

- Dual-sided photocells let you receive the beam from multiple directions and maintain convenient control and view of the receiver.
- 15-channel linear LCD display allows for fast, accurate readings and easy fixed offsets.
- Simultaneous 5-channel green and red LED display ensures that information can be read even in poor light, over long distances, and at an angle.
- Rugged and waterproof magnesium housing can survive a drop of up to 3 m (10 ft) onto concrete.

HR500 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 (AA-2)	100 hours at normal operation
Auto Shut-Off	30 minutes
Weight	340 g (12 oz)
Reception Angle	180 degrees
Out-of-level Warning	
Waterproof	100%

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