

## 1242 Applications

- Concrete forms and footers
- Grading and excavating
- Concrete sections with run-off: sports fields, tennis courts, driveways
- Short-run sewer connections
- Ditch banks with grades up to 25%
- Parking garages, ramps, and drainage

## Spectra Precision Laser 1242



### Versatile Automatic Self-Leveling Grade Laser

The Spectra Precision® Laser 1242 transmitter is a cost-effective automatic self-leveling laser that does two jobs—levels and grades.

The 1242 transmitter sends a continuous, self-leveled 360-degree laser reference over your entire work area, and with a single-axis grade range of 0.10 to 25 percent, it can be used for a range of slope applications.

Use this versatile laser with a Spectra Precision Laser HR550 receiver at an operating diameter up to 800 meters (2,600 feet), or use it with the CR600 machine-mounted laser receiver for fast and easy machine-control display. The 1242 also has a bright, visible beam that can be stopped and pointed for use as a short-run pipe laser.

The combination of the visible beam with the AccuGuard compensator, SafeGuard service warning and the LaserGuard two-year use-and-abuse warranty make the 1242 the best value in the industry.

#### HR550 Receiver

The Spectra Precision Laser HR550 receiver is ideal for use with the 1242 transmitter. This flexible and highly innovative receiver can be used either as a hand-held or rod-mounted unit. The HR550 features a unique anti-strobe sensor that stops construction lights from setting off the receiver, and makes it easier to identify true laser beam signals. The rugged, weatherproof housing withstands a drop of up to 3 m (10 ft) onto concrete. The highly visible LED display and dual-sided laser reception allow you to work anywhere.

#### CR600 Receiver

Another receiver option is the Spectra Precision Laser CR600. In addition to use as a handheld and rod-mounted receiver, the CR600 can be used as a machine-control mounted receiver with 270-degree reception and a highly visible display for use on a backhoe, small excavator or skid steer. Rugged, accurate and easy to use, the CR600 provides high, low or on-grade information for all your grading and excavation applications.

#### 1242 Benefits

- Fast and easy setup with no manual leveling
- Fast payback due to multiple grade application capability
- Reduced material cost
- Virtually eliminates downtime
- Highly visible beam with variable speed control
- Handles alignment tasks such as pipe installation
- Warranty covers laser for two years, even if it is dropped or knocked over



# Spectra Precision Laser 1242



## Spectra Precision Laser 1242



- 1. Power Button
- 2. Liquid Crystal Display (LCD)
- 3. Mode Button
- 4. Increase Button
- 5. Leveling Screws LEDs
- 6. Level LED
- 7. SafeGuard LED
- 8. Decrease Button
- 9. Pointing-Control Knob
- 10. Sunshade
- 11. Lighthouse
- 12. Handle
- 13. Leveling Screws
- 14. Leveling Base
- 15. 5/8-11 Tripod Mount
- 16. Calibration Screws (on bottom)
- 17. Battery Recharging Jack
- 18. Battery Housing (on back)

### 1242 Specifications: Laser

Laser Type/Classification . . . . .635 nm visible, Class IIIa  
 Compensation Method . . . . .Wire-hung, air-dampened, AccuGuard™ compensator  
 Manual Leveling Method Two-screw leveling base with electronic leveling LEDs  
 Self-Leveling Range . . . . .Up to 10% grade  
 Horizontal Leveling Accuracy . . . . .±8 arc seconds  
     <±1.6 mm per 30 m (<±1/16 in per 100 ft)  
     ±1.7 mm per km double run leveling  
 Beam Diameter . . . . .12.5 mm (1/2 in)  
 Operating Diameter . . . . .Target—120 m (400 ft);  
     HR550 receiver—800 m (2,600 ft)  
 Rotation Speeds . . . . .0, 50, 300, and 600 rpm  
 Grade Range . . . . .0.10% to 25.0%  
 Grade Increments . . . . .0.01% steps from 0.10% to 2.50%;  
     0.02% steps from 2.52% to 5.0%  
     0.05% steps from 5.05% to 10.0%;  
     0.1% steps from 10.1% to 25.0%  
 Grade Accuracy . . . . .0.10-0.99% = ±0.06% total;  
     1.00-2.98% = ±0.15% total  
     3.00-25.0% = ±6.0% of the included grade  
 Accuracy Over Temperature Change . . . . .±20 arc seconds  
 Power Source . . . . .4 D-cell alkaline or Ni-Cd  
     (4.4 Amp hr) battery

Battery Life 20°C (68°F) . . . . .Alkaline: >80 hours;  
     Ni-Cd: >24 hours  
 Automatic Shutoff . . . . .Shuts off the laser if it is not leveled  
     in automatic mode after 10 minutes  
 Tripod Screw . . . . .5/8-11  
 Operating Temperature . . . . .-20° to +50°C (-4° to 122°F)  
 Storage . . . . .23° to +60°C (-10° to 140°F)  
 Dimensions (T x W x L) . . . . .19.0 x 16.0 x 24.1 cm  
     (7 1/2 x 6 1/4 x 9 1/2 in)  
 Weight . . . . .2.9 kg (6 lb 3 oz)

### HR550 and CR600 Receiver Features

1. 15-channel linear LCD display allows for fast, accurate readings and easy fixed offsets.
2. 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.
3. Dust and waterproof housing can withstand a drop of up to 3 m (10 ft) onto concrete.
4. The HR550 features dual-sided photocells which let you receive the beam from multiple directions and maintain convenient control and view of the receiver.
5. The CR600 wraparound receiver cells offer continuous pickup through an operating range of 270° for reduced setups and improved productivity, especially in machine applications.

### HR550 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  
 Anti-strobe sensor . . . . .Yes  
 Dust and Waterproof . . . . .Yes

### CR600 Receiver Specifications

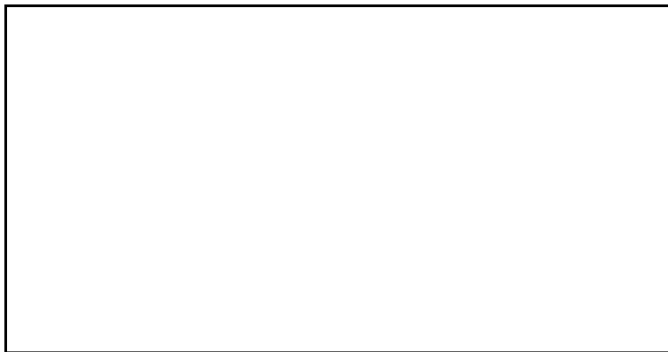
Seven On-Grade Sensitivities . . . . .Ultra Fine 0.1 mm (0.004 in)  
     Super Fine 1.0 mm (1/32 in)  
     Fine 1.5 mm (1/16 in)  
     Medium 3 mm (1/8 in)  
     Coarse 6 mm (1/4 in)  
     Machine Fine 25 mm (3/8 in)  
     Machine Coarse 25 mm (1 in)  
 Operating Temperature . . . . .-20°C to 50°C (-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 . . . . .270 degrees  
 Dust and Waterproof . . . . .Yes



CR600



HR550



YOUR LOCAL SPECTRA PRECISION LASER REPRESENTATIVE

**NORTH AMERICA**  
 Trimble Construction Division  
 5475 Kellenburger Road • Dayton, Ohio 45424 • USA  
 800-538-7800 (Toll Free)  
 +1-937-245-5154 Phone • +1-937-233-9441 Fax

**EUROPE**  
 Trimble GmbH  
 Am Prime Parc 11 • 65479 Raunheim • GERMANY  
 +49-6142-2100-0 Phone • +49-6142-2100-550 Fax

**ASIA-PACIFIC**  
 Trimble Navigation Australia PTY Limited  
 Level 1/120 Wickham Street • Fortitude Valley, QLD 4006 • AUSTRALIA  
 +61-7-3216-0044 Phone • +61-7-3216-0088 Fax

[www.trimble.com/spectra](http://www.trimble.com/spectra)

