HV302

Applications

- Interior and exterior, light to medium commercial and residential construction
- Leveling and aligning of forms and footers
- Leveling and aligning of interior walls
- Installation of ceilings and raised floors
- Interior finishing work

Multipurpose Construction Laser for Interior and Exterior

Whether your job is indoors or outdoors, the automatic self-leveling Spectra Precision® HV302 Horizontal/Vertical Laser is the most rugged laser available, tough enough to handle a wide variety of horizontal, vertical and plumb applications in both interior and exterior projects. A split beam enables plumb point transfer and 90 degree layout. Even in brightly lit interior conditions, the high visibility beam of the HV302 delivers consistently reliable and accurate performance, enabling you to work faster and smarter.

The rugged HV302 laser can withstand drops of up to 1 meter (3 feet) onto concrete and tripod tipovers up to 1.5 meters (5 feet). This strength, combined with full weatherproofing and dustproofing, reduces downtime and lowers repair costs over the life of the product.

Various HV302 packages are offered that are appropriate for interior applications, exterior applications or both. Receiver choices include the HR150U for interior applications, the HL450 for general use and the HL760 for advanced applications. The HL760 offers Grade Match, which establishes a plane between unknown points and horizontal and vertical PlaneLok, which eliminates errors caused by drift, improper calibration or environmental conditions. The unique “Fingerprint” function of the HL760 only accepts the beam from the laser it is paired with.

Key Features

- Automatic horizontal and vertical self-leveling
- Accuracy 1.5mm @ 30 m (1/16 inch @ 100 ft)
- Working range of 800 m (2,600 ft) diameter
- High-visibility beam – easily visible even in brightly lit conditions
- Split beam – enables plumb point transfer and 90-degree layout
- Height of Instrument Alert - unit stops rotating when jarred to avoid erroneous readings
- Long range RC402N Radio remote control
- Radio communication between the HL760 DRO receiver and the laser provides automatic Grade Matching and PlaneLok
- “Fingerprint” function of the HL760 DRO receiver only accepts the beam from the laser it is paired with
- Extremely durable and portable
- 5 Year warranty

User Benefits

- Complete leveling crew in a case - carrying case securely holds all components, tripod and grade rod (valid for the complete system kit)
- Easy to transport, easy to carry, easy to store
- Energy-efficient design offers long battery life
- Highly durable construction enables the HV302 to survive a drop up to 1 m (3 feet) onto concrete
- Radio remote control offers access to all laser functions throughout the jobsite.

SPECTRA PRECISION

1965 - 2015 50th Anniversary of the 1st Rotating Laser

Multipurpose Construction Laser for Interior and Exterior

HV302 Specifications

- Leveling accuracy[1,3]: ± 1.5 mm/30 m, 1/16“ @ 100 ft, 10 arc seconds
- Operating diameter[1,2]: appr. 800 m (2600 feet)
- Rotation: 0, 10, 80, 200, 600 rpm
- Pre-selected scan sizes: 5°, 15°, 45°, 90°, 180° and 0
- Laser type: red diode laser 600-680 nm
- Laser class : Class 3A/3R, max. 5 mW
- Self-leveling range: ± 5° (±9%)
- Leveling indicators: LED flashes
- Radio range (HL760): up to 100 m (330 ft)
- Power source: 10.000 mAh NiMH battery pack
- Battery life[1]: 45 hours NiMH; 60 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 - IP66
- Weight: 3.1 kg (6.8 lbs)
- Low voltage indication: LED 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 HV302 in automatic Grade Match and PlaneLok applications
- Key Features:
  - Digital readout of elevation
  - Exact distance from on-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)
  - Fingerprint function - detects only the laser beam of the paired transmitter
- User Benefits:
  - No need to go “on-grade” to measure;
  - Saves considerable time
  - Reduces rework by allowing remote monitoring
  - Increases reliability, accuracy and durability

RC402N Remote Control Specifications

- Operating range[1,3]: up to 100 m (330 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 Digital Readout 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: 0.37 kg (13.1 oz)
- Warranty: 3 Years “No Excuses”

[1] at 21° Celsius (70° F)
[2] under optimal atmospheric circumstances
[3] along the axis

HV302 features a strong metal sunshade

RC402N Radio Remote Control for all applications

Choose your HV302 package with your prefered receiver

HR150U Receiver with highly visible LEDs and built-in magnetic mount

HL450 Digital Readout Receiver to measure and display beam location

Advanced HL760 Digital Readout Radio Receiver to measure and display beam location

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

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