

HV401 Applications

Interior

- Wall installation
- Drop (hanging) ceilings
- Sloped ceilings
- Layout of interior walls and framing
- Interior fittings and fixtures
- 1 meter (4 foot) marks

General Construction

- Cut and fill measurements
- Layout and excavation lines
- Positioning of concrete forms/"pinning footers"
- As-built checks
- Layout of construction control lines on concrete pad for subcontractor use
- Elevation control over large jobsites
- Slopes on grade



New Advanced Construction Laser for Interior Applications and General Construction

Tough, highly versatile Interior and General Construction Laser

The highly visible, multi-purpose Spectra Precision® Laser HV401 Laser is an advanced laser with exceptional accuracy and durability for interior and general construction projects. Replace the conventional method of stringlines and optical instruments—the HV401 laser gives you easy setup and one-person operation in a wide variety of commercial applications. Using the the HV401 laser you can maximize your return on investment, and boost your productivity.

Interior Work

For interior work with common construction materials and infrastructure such as drywall, wall anchors, and reference marks, the HV401 laser features a multi-use mount for ceiling installation and drywall framing. The HV401 laser provides a permanent, hands-free reference for hanging ceilings in large rooms so you can complete the job with one set up.

General Construction

For general construction applications such as leveling of concrete and concrete forms, layout of excavation lines, aligning concrete forms, and performing as-built checks, the HV401 laser is your easy-to-use, economical choice for both elevation control and vertical alignment tasks.

This high-accuracy, longer range laser is ideal for elevation control over large jobsites, as well as slopes on grade. The HV401 laser provides reduced setup, one-person operation, and faster return on investment.



HR550 Receiver

The Spectra Precision Laser HR550 Receiver complements the HV401 transmitter by giving the contractor more versatility on the job site. This flexible and innovative receiver can be used either as a handheld or rod-mounted unit. The HR550 receiver 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.

HV401 Laser Features & Benefits

- Withstands a direct drop of 1 meter (3 foot) or a 1.5 meter (5 foot) tip-over onto concrete
- Powerful, bright visible beam provides permanent interior reference for multiple users
- Fast setup, minimal training time, and automatic self-leveling minimizes operating costs and boosts productivity
- One-person operation reduces labor costs
- Temperature calibrated, high accuracy for consistent performance across larger job sites and reduced material usage
- IP66 dust and waterproof for continual performance in harsh conditions
- Multiple power options: NiMH rechargeable batteries, direct power or alkaline batteries for reduced downtime



Spectra Precision Laser HV401 Laser



Tough, Highly Versatile Interior and General Construction Laser

HV401 Laser Features

- Versatile horizontal and vertical operation modes
- Easy setup and one-person operation
- Unique lighthouse design withstands up to a 1 m (3 ft) drop on concrete
- Intuitive, one-touch operator controls
- Automatic self-leveling
- Temperature-calibrated, high accuracy
- Single axis slope mode for accurate slopes on grade
- High durability with IP66 sealing
- Automatic compensation for level and plumb
- Long-range remote control works up to 200 m (650 ft) away from the laser
- Highly visible beam
- Flexible power options, NiMH rechargeable or alkaline
- Simultaneous split laser beam for fast layout and plumb transfer
- Built-in vertical stand and 5/8" x 11" H/V mounting
- Manual slope control to match known references
- Uni-mount feature allows for application setups with no extra accessories



HR550 Receiver

HV401 Laser Specifications

Laser source	4.99 mW maximum
Laser accuracy	±10 arc seconds (± 1.5 mm at 30 m) (± 1/16 in at 100 ft)
Remote control range	200 m (650 ft) -X side, up to 50 m (160 ft) for outside applications
Self-leveling range	±5 degrees
Drop height on concrete	1 m (3 ft)
Compensation method	Electronic self-leveling
Receiver operating diameter	.600 m (2,000 ft)
Power source	NiMH standard, alkaline backup
Battery life	55 hours NiMH, 90 hours alkaline
Rotor plumb vial	Fast beam positioning in the down plumb position to 1.5 mm at 1 m (1/16" at 3 ft)
Battery status LED	Flashing red LED
Battery recharging time	Less than 10 hours
Rotation speed	Four preset speeds from 10 to 600 rpm
Temperature calibrated	Yes
Out-of-level warning	Rotor stops, laser shuts off, red out-of-level LED flashes
Operating temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Storage temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Warranty	2 years
Waterproof and dustproof	Yes, IP66
Size	.21L x 18W x 20H cm (8.3L x 7.1W x 7.9T in)
Weight	3.1 kg (6.8 lbs)

HR550 Receiver Features

- Unique anti-strobe sensor stops construction strobe lights from setting off the receiver, and eliminates phantom strikes for easier identification of true laser beam signals.
- Dual photocells receive the beam from multiple directions allowing the operator to control and view the receiver from a convenient location.
- 15-channel linear display allows fast, accurate reading and easy fixed offsets, and eliminates the need to get "on-grade" to make measurements.
- Simultaneous elevation LEDs signal in low light levels and over a longer range provide easier reading in poor light than backlit LCDs and reduce power consumption.

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 (2-AA)	100 hours at normal operation
Auto shut-off	30 minutes
Weight	0.27 kg (9 1/2 oz)
Reception angle	170 degrees
Anti-strobe sensor	Yes
Dust & waterproof	Yes



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