

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

Spectra Precision Laser HV401 Laser



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 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.



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

HL700 Laserometer

The HL700 features a digital readout of elevation that shows exactly how far you are from on-grade allowing quick elevation checks without moving the rod clamp. An anti-strobe sensor stops construction lights from setting off the receiver, and makes it easier to identify true laser beam signals. The protective over molded housing withstands a drop of 3 m (10 ft) onto concrete. The highly visible LED display and dual sided LCD's allow you to work anywhere.



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 for level and plumb
- Temperature-calibrated, high accuracy
- Single axis slope mode for accurate slopes on grade
- High durability with IP66 sealing
- Adjustable rotation speed from 0-600 RPM for all light conditions
- 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



HL700

HV401 Laser Specifications

Laser source	<5 mW, class 3A/3R, 635 nm
Laser accuracy	± 1.5 mm at 30 m (± 1/16 in at 100 ft) (±10 arc seconds)
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	800 m (2,600 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 HI-alert 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)
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)
Warranty	2 years

HL700 Laserometer Features

- Digital readout of elevation shows how far from on grade without moving the rod clamp.
- Large 127 mm (5 inch) reception height acquires the beam quickly and keeps you in the laser beam.
- CAPTURE function remotely acquires and retains a measurement when the display is difficult to see.
- Extremely tough - can withstand a drop of 3 m (10 ft) onto concrete and has a 3 year warranty to back it up.

HL700 Laserometer Specifications

On-Grade Sensitivities	Ultra Fine 0.5 mm / 1/32 in Super Fine 1.0 mm / 1/16 in Fine 2.0 mm / 1/8 in Medium 5.0 mm / 1/4 in Coarse 10.0 mm / 1/2 in Calibration Mode 0.1 mm / 1/64 in
Readout Units of Measure	mm, cm, ft, in, fractional in
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Battery Life (AA-2)	60+ hours continuous operation
Auto Shut-Off	30 minutes/24 hours
Weight	0.27 kg (9 1/2 oz)
Reception Height	127 mm (5 inches)
Anti-strobe sensor	Yes
Dust and Waterproof	Yes
Warranty	3 Years "No Excuses"

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