

HV601/HV602 for General Construction



CONTROL YOU CAN RELY ON

Accurate

Versatile

Fast


Easy to Use

Precision Leveling and Aligning

Maximum Versatility

The Spectra Precision Laser HV601 and HV602 from Trimble are high-precision horizontal and vertical rotating lasers ideal for a variety of general construction applications. Their numerous high-end features make them adaptable to almost any job. With automatic self-leveling, remote control, horizontal and vertical capabilities, among others, the HV601 and HV602 lasers save time and money by increasing productivity and versatility.

Easy to learn, set up and use, the HV601 and HV602 allow general and concrete contractors to position and measure in a variety of different ways. As part of Trimble's portfolio of construction positioning products, the HV601 and HV602 allow you to control alignment and other positional settings in addition to elevation. The visible laser beam can be controlled for pointing or scanning, creating a highly visible reference for both exterior and interior applications.



Choose between the HV601 with IR remote or the HV602 with the radio remote for PlaneLok—from up to 50 meters away with IR and 150 meters away with radio. Save time and enable one person to easily handle vertical alignment setup.



The HV601 and HV602 come complete with a unique universal mount which can be used to position the unit in vertical on a floor, tripod or even on a batterboard.



Applications

Due to their accuracy and reliability, the industry leading HV601 and HV602 are ideal for a wide variety of general construction applications.

- ▣ Layout and leveling of footers, foundations and forms
- ▣ Column layout and steel erection
- ▣ Tilt-up walls
- ▣ Curtain wall installation
- ▣ Elevation control across the site
- ▣ Manual slope work
- ▣ Checking plumb
- ▣ Transferring control points up through a building
- ▣ 1 meter / 4 foot marks
- ▣ Interior applications such as ceiling and floor installations
- ▣ Interior wall layout



Advanced Features Ensure Exceptional Performance

The HV601 and HV602 lasers include a range of advanced features designed to significantly increase your accuracy, productivity, and ultimately, your profits.

VERTICAL



The HV601 and HV602 lasers can be used in a vertical position to project a vertical plane across the site. In vertical mode, the HV601 and HV602 can be used for a range of alignment applications including the positioning of footers, foundations, forms and anchor bolts, as well as steel erection. This eliminates the need for slower more traditional methods such as string lines. The need for plumb-bobs is also eliminated, as the laser can also be used to check for plumb.

SELF-LEVELING



As fully automatic self-leveling systems, the HV601 and HV602 lasers are able to maintain a level beam even when vibrations are present. As a result, they are easy to set up and use, and incorrect measurements are prevented.

PLUMB-UP BEAM



The plumb-up beam can be used in a vertical position for a 90-degree reference or in a normal, upright position allowing you to accurately and easily bring control points up through high-rise buildings.





Receiver Options

Further versatility is provided in your choice of Spectra Precision Laser receivers. Both the HR500 and the CR600 receivers are fully compatible with both the HV601 and HV602 laser transmitters. Choose the one that best suits your needs:



HR500

The standard receiver packaged with most of our laser transmitters, the flexible and highly innovative Spectra Precision Laser HR500 can be used either as a handheld unit or mounted on a rod. The HR500 features a fully waterproof magnesium housing that is both lightweight and extremely strong. The highly visible LED display and dual-sided laser reception allow you to work anywhere.



CR600

In addition to handheld and rod-mounted capabilities, the Spectra Precision Laser 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 to the machine operator.

PLANELOK FUNCTION



The HV602's PlaneLok capability involves using the receiver in conjunction with the radio remote to fix and lock the laser beam in one axis, even if the beam is not level. This feature eliminates problems associated with temperature drift with long range vertical applications. PlaneLok also provides an easy solution to difficult setup locations such as ships or high rises that are moving in the wind. Using PlaneLok, the laser beam can be locked to a reference on the actual structure.

By placing the laser in manual mode, PlaneLok can also be used to lock the laser plane to a slope, allowing straightforward slope grading.



HV601 / HV602 LASER SPECIFICATIONS

Self-Leveling	Electronic servo, $\pm 5^\circ$ range
Accuracy (horizontal and vertical)	± 10 arc seconds ± 1.5 mm per 30 m ($\pm 1/16$ in. per 100 ft)
Laser Type	635 nm visible, Class 3A
Machine Control Compatible	Yes
Battery Life (20°C / 68°F)	HV601: Alkaline or NiMH rechargeable: 50 hours HV602: Alkaline or NiMH rechargeable: 30 hours
Battery Status LEDs	Yes
Rotation Speed	0, 50 to 300, 600 rpm
Operating Receiver Range (Diameter)	600 m (2000 ft)
Interior Operating Visible Range (Diameter) 50 rpm in Normal Room Lighting	200 m (660 ft)
Single Axis Manual Slope Mode	Yes (w/ self-leveling mode on the second axis)
PlaneLok (HV602 only)	Yes
Additional Interior functions	Beam plunge and zone scan
Operating Range Radio Remote Control (HV602 only)	Up to 150 m (500 ft)
Operating Range IR Remote Control (HV601 only)	Up to 50 m (164 ft)
Waterproof	Yes
Tripod Mount (horizontal and vertical)	5/8 in-11
Operating Temperature	-20° to 50°C (-4° to 122°F)
Weight	3.5 kg (7.72 lb)
Warranty	2 years

Spectra Precision Lasers from Trimble.

Construction Solutions To Build Your Competitive Advantage.

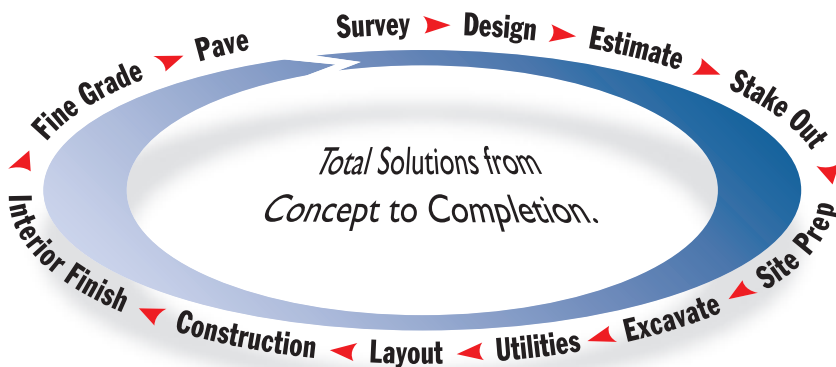
With the largest worldwide dealer and service network in the industry, no other company can match the service and support Trimble provides. Our experienced local dealers and sales force are more than sales reps—they're your business partners.

They understand your business, provide quality service, and can even help finance the equipment you need. Unequaled experience in the surveying and construction industry backed by a relentless commitment to quality and R&D ensures that the products we offer are not just tools, but solutions that will enable you to work more productively and profitably every day.

From Conception to Completion

Maximum efficiency. Everyone is talking about it, but only Trimble provides concept-to-completion solutions to the construction industry. How?

By drawing on our expertise in positioning, survey, software, machine control, and construction instrument technology to eliminate inefficiencies and provide you with complete control over all your individual machines, processes, materials and operations. And changing the way you work forever.



YOUR LOCAL TRIMBLE OFFICE OR REPRESENTATIVE

WWW.TRIMBLE.COM

© 2002, Trimble Navigation Limited. All rights reserved. The Globe and Triangle logo and Trimble are trademarks of Trimble Navigation Limited. All other marks are the property of their respective owners. Reorder PN 022485-187 (06/02)



NORTH AMERICA

Trimble Navigation Limited
Engineering and Construction
5475 Kellenburger Road
Dayton, Ohio 45424-1099
800-538-7800 Toll Free
937-233-8921 Main
937-233-9441 Fax
www.trimble.com

EUROPE

Trimble GmbH
Am Prime Parc 11
D-65479 Raunheim
Germany
+49-6142-21000 Main
+49-6142-2100550 Fax

LATIN AMERICA

Trimble Navigation Limited
6505 Blue Lagoon Drive
Suite 120
Miami, FL 33126
800-865-3994 Toll Free
305-263-9033 Main
305-263-8975 Fax

AFRICA & MIDDLE EAST

Trimble
P.O. Box 17760
Jebel Ali Free Zone
Dubai
UAE
+971-4-881-3005 Main
+971-4-881-3007 Fax

ASIA-PACIFIC

Trimble Navigation Australia
PTY Limited
Level 1/123 Gotha Street
Fortitude Valley, QLD 4006
AUSTRALIA
+61-7-3216-0044 Main
+61-7-3216-0088 Fax

CHINA

Trimble Export Limited
Representative Office
Suite 16D, Building 2, Epoch Center
4 Beiwa Road, Haidian District
Beijing, P.R. China, 100081
+86-10-6847-7756 Main
+86-10-6847-7786 Fax

