Construction Catalog

Technology for Precision Measurements



Laser Levels | Grade Lasers | Interior Lasers | Pipe Lasers | Horizontal & Vertical Lasers
Machine Receivers | Laser Receivers | Optical Instruments

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Over 60 Years of Innovation

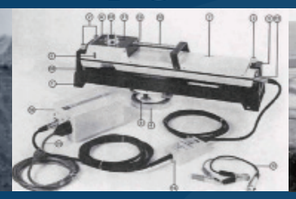
More Than 1,000,000 Lasers Sold

1965



Bob Studebaker
with the first rotating laser in the world

1973



Rotolite
The first rotating laser for exterior work

1976



954U
The first electronic, automatic, self-leveling rotating laser with slope adjustment

1981



EL-1
First electronic, automatic, self-leveling rotating laser with a laser diode

1984



Pipemaster
First pipe laser with an internal battery and infrared remote control

2016



DG613-DG813
Compact, tough and smart pipe lasers

2017



GL612N-GL622N
Automatic single & dual grade laser for level, grade and vertical alignment

2018



LT52G
Green beam family of laser tools using bright ultra-green lasers

2018



DG613G
High visibility green beam pipe laser with flexible power options

2019



CR700
Combination machine-mounted or grade rod laser receiver with digital readout

2021



LL500
Electronic self-leveling laser..still one of the most trusted lasers used today

New for **2025**



LL1505C &
HV1305(G)C
were introduced in 2025
Along with new Point and Line Lasers

For more than 60 years...

Spectra Precision has been an innovation leader in the construction industry worldwide. We understand what our customers need on the job every day, because we have always made communication and listening to our customers a top priority. We also employ the best engineers and technical specialists to ensure that our reputation for innovation and quality never fades.

This company focus: communication and innovation, is why we bring new technologies to market in easy-to-use, highly efficient products designed with the commercial construction market foremost in mind. We believe in technological quality, precision, and competitiveness. We believe in work well done. Spectra Precision products are reliable and long-lasting, with an excellent Return on Investment value.



Spectra Precision products help provide control for elevation, grade, vertical alignment and 90 degree layout for both interior and exterior construction.

They are ruggedly designed to withstand harsh on-the-job conditions including: drops from as much as three feet onto concrete; rain; mud; even brief immersion. Temperature extremes, humidity, and clumsy handling will not harm Spectra Precision products. They are meant for real world reliability.

Our products have been created to facilitate your work. In them you'll find:

- Ease of use
- Ruggedness
- Superior Warranties

Your goals are our objectives:
Save time and increase efficiency.

Global Distribution and Service Partners

Our dealers and service providers receive regular, comprehensive training in the latest innovative technologies directly from Spectra Precision, so they can provide industry-best consultation, support and guidance to help construction firms select the best solution for their jobsite and workers' needs.

Worldwide Service Network

Spectra Precision has a comprehensive worldwide service provider network with more than 170 approved service centers. In addition, there are three factory service centers – where specialist reprogramming and component level repairs can be undertaken – in Dayton, OH, USA; Kaiserslautern, Germany; and Shanghai, China. All authorized service providers are factory trained and take part in regular continuing education training to update their skills and knowledge. Each service provider invests in specialist equipment to make sure that all service and repairs are carried out to the highest standards.

What does this mean to the Spectra Precision user? Live, experienced service technicians are available via phone, email and in person during normal business hours all around the world, whether for technical advice, service or repairs.

In this catalog, you will find our latest products, with unique features that will make your projects more efficient and your workers more productive on a daily basis.

Our industry expertise has allowed us to combine the most complex and innovative laser technology with unparalleled ease of use. Configure your Spectra Precision laser in a few seconds and get to work.

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Lasers Overview

Spot On Accuracy

Buying Guide



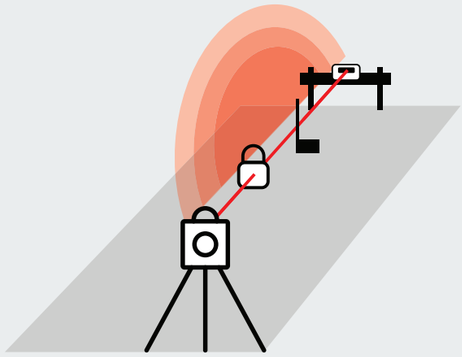
1. What do lasers do and how does that relate to what I need to do with them on the jobsite?

Simply, laser levels can provide a reference for:
- Horizontal Level
- Vertical Alignment
- Slope
- Automatic Grade
- 90 Degree Layout
- Plumb

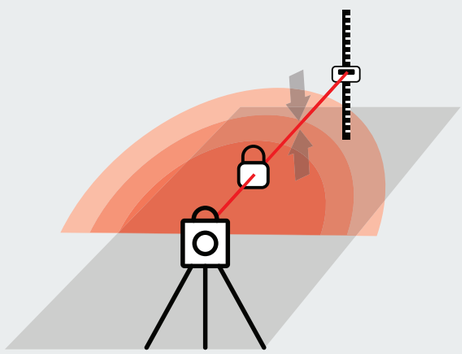
Some lasers have only one of the features and some have all.

2. How does distance impact the way the laser functions?

Accuracy of the laser changes over distance. Over longer distances even the curvature of the Earth has an impact. Additionally the receiver you use can affect the accuracy. Depending on your requirements there are a number of things you can consider to improve accuracy.



Vertical PlaneLok



Horizontal PlaneLok

PlaneLok
A radio in the laser and the receiver, communicate and keep the laser beam locked to a fixed elevation or direction (in vertical). The laser works to keep the beam in a fixed position on the receiver.

This not only improves accuracy but is best used for applications requiring higher accuracy such as concrete pads. This function can also eliminate beam drift that can be caused by vibrations or changing temperatures throughout the day.

Tolerance Setting (Receivers) Tolerance is an accuracy setting on the receiver. Spectra Precision receivers allow tolerance adjustment from fine to rough level. This can be helpful, for example by using a wider tolerance while moving dirt and a narrow tolerance while doing concrete or other fine grade.

Spectra Precision receivers all maintain their tolerance accuracy over the full operating range of the receiver which, combined with digital readout and industry leading robustness assists greatly with improving accuracy.

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Buying Guide

3. Are there industry standards for accuracy?

No. However, at Spectra Precision we work to our own standards that require all products leaving the factory to be set to a tighter specification than our published specification to allow room for possible shift during transportation and during jostling. In most cases our products have a higher accuracy performance than that specified.

4. Where can I use lasers?

Lasers can be used externally with a receiver and internally visibly with or without a receiver (depending on light conditions). Spectra Precision exterior lasers have a visible beam allowing the user to see where the laser is in order to get the receiver to the on-grade position faster.

5. Can I use lasers for vertical applications?

Yes. Several lasers are designed for this application and are self-leveling in the vertical axis. All horizontal/vertical and grade lasers models are designed to be used in the vertical axis. Applications include formwork, foundations, 90° reference, fencing, facades and wall layout. The laser can replace the string line and be used over long distances. Please note the PlaneLok function (#2) can be used in either the horizontal or vertical position. There are several laser clamps and receiver brackets available to assist with the quick and efficient setup of vertical alignments.



6. What is Grade Matching?

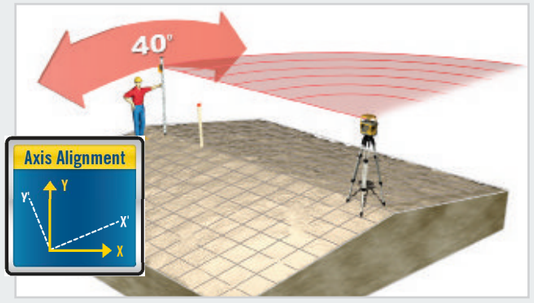
Grade Matching allows a user to match the fall of the ground or between two existing elevations without complex calculations.

- **Manual Grade Matching –** once the height of the laser has been measured, the user takes the receiver and the rod to the elevation that needs to be matched. Then the laser is sloped until the beam reaches the on-grade position on the receiver. Once complete the grade has been matched.
- **Automatic Grade Matching –** same process as manual grade except that the laser and the receiver communicate via radio and the beam is automatically driven to the on-grade position on the receiver. Some models of laser will also then display the actual grade.



7. What is Automatic Axis Alignment?

When working with grade it is vitally important that the grade hub is aligned correctly. Any slight mis-alignment can cause error, particularly over distance. Automatic Axis Alignment allows the user to align the laser to the grade hub automatically to providing a simple but accurate set-up. The laser communicates to the receiver and aligns to the receiver that is placed on the grade hub (this can be in a range of +/-40 degrees)



8. What is a Digital Read-Out Receiver?

Spectra Precision HL and CR Digital Readout Receivers deliver consistent accuracy across the entire working range, with a patented design that maintains reliable performance in challenging jobsite conditions. Built to withstand drops, dust, and water, they are engineered for durability where it matters most.

The digital display provides a precise numeric readout of your offset from on-grade, eliminating the need to move the receiver to the beam—helping you work faster and with greater accuracy. Adjustable accuracy settings and selectable metric or imperial units allow flexibility across different applications.

When paired with compatible Spectra Precision lasers, Digital Readout receivers also enable advanced features such as Grade Match, PlaneLok, and axis alignment, further improving productivity and precision on the jobsite.



9. What is Shockproof Design?

Spectra Precision lasers are engineered for demanding jobsite conditions, where impacts such as drops or tip-overs can occur.



Products marked with the "Shockproof" icon are designed to withstand a 1 meter (3.3 feet) drop onto concrete or a 1.5 meter (5 feet) tip-over on a tripod.

In practical terms, while calibration may be affected after a significant impact, the internal components are protected and remain fully functional. This design approach helps reduce repair costs and extends the overall lifetime of the product.

10. Green Beams

Spectra Precision manufactures green beam rotating lasers, pipe lasers, laser pointers, and line lasers

Green beam lasers are up to four times more visible to the human eye, making them ideal for bright or indoor conditions where beam visibility is critical.



11. Spectra Precision Laser Remote App

The Laser Remote App provides full control of laser functions directly from a smartphone (iOS and Android), replacing traditional remote controls with a more intuitive interface.

Designed for fast setup and operation, the app allows users to configure the laser in minutes instead of hours, reducing time on site and minimizing errors. Key functions such as grade entry, alignment, and settings adjustments can be managed quickly without returning to the laser.

When used with the ST805 Signal Transporter, the app enables control across extended distances, supporting efficient operation on larger jobsites.The app connects directly with the following models: LL1505C, HV1305C, HV1305GC, GL1425C.

All other compatible lasers can be controlled via the app when used with the ST805 Signal Transporter.



12. Extended Range with ST805 Signal Transporter



The ST805 Signal Transporter is designed to extend the working range of compatible lasers, enabling reliable communication over longer distances, by up to two times.

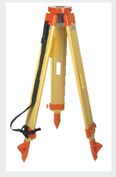
This extended coverage reduces the need to reposition equipment, minimizes setup time, and allows operators to maintain control of the laser across larger jobsites—especially during alignment and grading tasks.

The ST805 integrates seamlessly into the system, maintaining stable communication between the laser and remote control or app, even in challenging site conditions.

13. Accessories

Using the proper accessories ensures the best performance from your lasers and instruments. Heavy-duty tripods and grade rods enhance the productivity of the laser products.

Spectra Precision offers a wide selection and SECO accesories division has accessories to meet all your construction and geospatial needs.







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LL300N

Built to perform in rough invironments



Key Features & Benefits

- Available with a choice of system case (with receiver, tripod and choice of grade rod) or small carry case with receiver and clamp.
- Fully automatic self-leveling provides fast and accurate setup
- Rechargeable battery pack or alkaline batteries keeps the unit working with no downtime due to power loss
- Optional RC601 remote control allows easy grade matching using the remote control from rod position
- 1650 ft (500 m) operating diameter
- Single-axis manual slope mode with 'cross-axis' self-leveling allowing grade matching for basic slope work, while maintaining accuracy in the cross-axis
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- Comes with HL450 receiver.

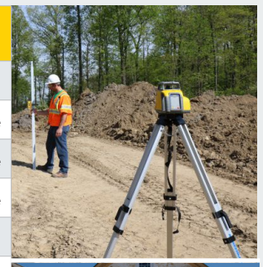


Applications

- Checking/setting elevations, concrete forms, footings, and foundations for small and medium sized jobs
- Basic slope work such as driveways and ramps
- Excavating, digging footings, and septic tanks

Part No.	Receiver / Clamp	Remote	Power	Rod	Tripod	Case
LL300N	HL450 / C45	No	4 D Alkaline	No	No	Small Case
LL300N-1	HL450 / C45	No	4 D Alkaline	GR151 Tenths	Q104025	System Case
LL300N-2	HL450 / C45	No	4 D Alkaline	GR152 Inches	Q104025	System Case
LL300N-3	HL450 / C45	No	4 D Alkaline	GR153 Metric	Q104025	System Case
LL300N-4	HL450 / C45	No	Rechargeable*	No	No	Small Case
LL300N-6	HL450 / C45	RC601*	Rechargeable*	GR153 Metric	Q104025	System Case
LL300N-BCA	No	No	4 D Alkaline	No	No	Small Case
LL300N-BCC	No	No	Rechargeable*	No	No	Small Case

All part numbers include LL300N transmitter. *Rechargeable comes with Q103311 NiMH battery pack and 95720-00 charger. Small Case PN 5289-0025. System Case PN 5289-0027







LL1505C

Durability, Precision and Connectivity



Key Features & Benefits

- Automatic self-leveling - horizontal & vertical
- Accuracy 1.5mm / 30m (1/16 inch / 100 ft)
- Working range of 1200m (4,000 ft) diameter with HL760 receiver
- Bluetooth connection allows laser control with a smartphone
- Height of Instrument Alert - unit stops rotating when jarred to avoid erroneous readings
- 900 rpm and thicker beam for machine control applications
- Simple keypad for easy grade matching
- Selectable rotation speed is ideal for working with machine mounted receivers
- Power versatility - charge the batteries inside or outside the laser. Alkaline batteries can also be used
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- 5 Years warranty

Applications

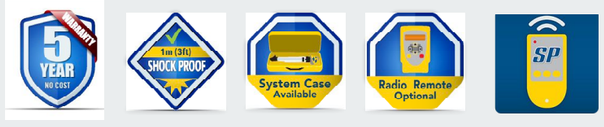
- General elevation control
- Leveling and aligning of forms and footings
- Checking and setting elevations for small to medium job sites
- Estimating cut and fills
- Excavations
- Basic slopes for driveways and ramps
- *Optional RC1402 remote control allows easy PlaneMatch from rod position.





Part No.	Receiver / Clamp	Remote	Power	Rod	Tripod	Case
LL1505C	HL760 / C70	No	Rechargeable*	No	No	Small Case
LL1505C-1	HL450 / C45	No	Rechargeable*	GR151 Tenths	Q104025	System Case
LL1505C-2	HL450 / C45	No	Rechargeable*	GR152 Inches	Q104025	System Case
LL1505C-4	HL450 / C45	No	Rechargeable*	No	No	Small Case
LL1505C-BCC	No	No	Rechargeable*	No	No	Small Case
LL1505C-BSC	No	No	Rechargeable*	No	Q104025	System Case

All part numbers include LL1505C transmitter. *Rechargeable comes with B10 NiMH battery pack and CH10 charger. Small Case PN 5289-0025. System Case PN 5289-0027





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LL500

Time-tested workhorse





Key Features & Benefits

- 1,650 ft (500 m) working diameter which increases productivity by reducing need for multiple set-ups on a large job site
- Self-leveling with built-in 'out-of-level' shut off that maintains accuracy over the entire work area, and minimizes errors
- High accuracy laser, 1/16 in per 100 ft (1.5 mm per 30 m) with temperature compensation provides highly stable, repeatable accuracy even under large temperature changes
- Uses alkaline or rechargeable batteries–so you are less likely to run out of power and the unit keeps working with no downtime due to power loss
- Visible 'spotting' beam for determining receiver mounting placement making it faster to find the on-grade position
- Includes HL700 Digital Readout Receiver and C70 rod clamp

General Construction Applications

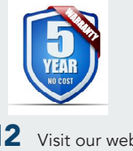
- Checking/setting elevations, concrete forms, footings, and foundations for medium to large commercial jobs



Part No.	Receiver / Clamp	Power	Rod	Tripod	Case
LL500	HL700 / C70	4 D Alkaline	No	No	Small Case
LL500-1	HL700 / C70	4 D Alkaline	GR151 Tenths	2161	Small Case
LL500-2	HL700 / C70	4 D Alkaline	GR152 Inches	2161	Small Case
LL500-4	HL700 / C70	NiMH*	No	No	Small Case

All part numbers include LL500 transmitter and 1046-4750S case. *Q103077 NiMH batteries and 95720-00 charger.





HV1305C

A new generation in visibility and versatility



Key Features & Benefits

- Automatic self-leveling - horizontal & vertical
- Accuracy 1.5mm / 30m (1/16 inch / 100 ft)
- Working range of 1200m (4,000 ft) diameter with HL760 receiver
- Bluetooth connection allows laser control with a smartphone
- Height of Instrument Alert - unit stops rotating when jarred to avoid erroneous readings
- Automatic plumb down beam for quick and easy setup over a reference beam.
- Superior electronic pointing for precise control when positioning the beam
- Rotation selection of 0, 10, 100, 200, 300 or 600 RPM
- Power versatility - charge the batteries inside or outside the laser. Alkaline batteries can also be used
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- 5 Years warranty
- Adjustable scan line sizes for high visibility.
- Optional wall mount M304.



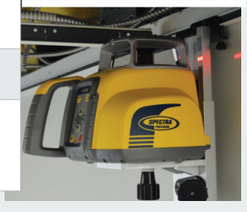
Applications

- Interior and Exterior general construction
- Leveling and aligning of forms and footers
- Vertical alignment - tilt wall, interior layout and exterior anchor bolt and form alignment
- Commercial ceiling and drywall installation
- Interior finishing work

Part No.	Receiver / Clamap	Wall Mount	Ceiling Target	Remote	HL Vertical Adapter	Power	Rod	Tripod	Case
HV1305C-4	HL760 / C70	No	1176	RC1402	105516	Rechargeable*	No	No	Small Case
HV1305C-SC-2	HL760 / C70	No	No	RC1402	105516	Rechargeable*	No	Q104025	System Case
HV1305C-BCC	No	No	No	No	No	Rechargeable*	No	No	Small Case
HV1305C-BSC	No	No	No	No	No	Rechargeable*	No	Q104025	System Case
HV1305C-SC-2EU	HL760 / C70	No	No	RC1402	105516	Rechargeable*	No	Q104025	System Case

All part numbers include HV1305C transmitter. *Rechargeable pack includes B10 NiMH pack and CH10 charger. Small Case PN 5289-0026. System Case PN 5289-0027.







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HV1305GC

Consistently reliable and accurate performance



Key Features & Benefits

- Automatic self-leveling - horizontal & vertical
- Accuracy 1.5mm / 30m (1/16 inch / 100 ft)
- Working range of 1200m (4,000 ft) diameter with HL760U receiver
- Bluetooth connection allows laser control with a smartphone
- Height of Instrument Alert - unit stops rotating when jarred to avoid erroneous readings
- Automatic plumb down for quick and easy setup over a reference point.
- Superior electronic pointing for precise control when positioning the beam
- Rotation selection of 0, 10, 100, 200, 300 or 600 RPM
- Power versatility - charge the batteries inside or outside the laser. Alkaline batteries can also be used
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- Adjustable line scan size for high visibility.
- 5 Years warranty

Applications

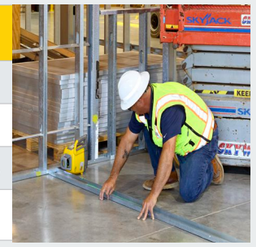
- Interior and Exterior general construction
- Leveling and aligning of forms and footers
- Vertical alignment - tilt wall, interior layout and exterior anchor bolt and form alignment
- Commercial ceiling and drywall installation
- Interior finishing work

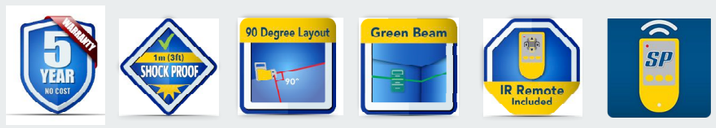


HV1305GC kit has everything you'll need to master the job.

Part No.	Receiver / Clamp	Ceiling Target	Remote	HL Vertical Adapter	Rod	Tripod	Case
HV1305GC-7	HL760U / C70	Q104124	RC1402	105516	No	No	Small Case
HV1305GC-BCC	No	No	No	No	No	No	Small Case
HV1305GC-BSC	No	No	No	No	No	Q104025	System Case

All part numbers include HV1305GC transmitter.
*Rechargeable pack includes B10 NiMH battery pack with 95720-00 charger





GL412N

Single Grade Lasers with Vertical Alignment



Key Features & Benefits

- GL412N is a grade plus horizontal and vertical laser. Simple, accurate dial in grade from -10% to +15%
- Up to 2,600 ft (800 m) working diameter which increases productivity by reducing need for multiple set-ups on a large job site
- Fast setup, minimal training and automatic self-leveling minimize operating costs and boost productivity.
- Automatic plumb down for quick and easy setup over a reference point.
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- 2-way full function remote control allows grade changes to be made from anywhere on the jobsiteExtremely durable and portable
- Temperature stable for high accuracy over wide temperature changes
- Customizable with choice of HL760, HL450, or CR700 receivers
- Mask mode eliminates interference from other crews on the jobsite
- Automatic GradeMatch and PlaneLok

Applications

- Leveling concrete forms and footers
- General construction vertical alignment and plumb such as anchor bolt and form alignment
- "Over the top" sewer and storm drain pipe installations
- Grading and excavating
- Driveways and ramps
- Trenching
- Sport fields, tennis courts
- Steep slope road embankments and ditch banks



Part No.	Grade	Receiver	Clamp	Vertical Adapter	Remote	Rod	Tripod	Case
GL412N	Single	HL760	C70 Rod Clamp	105516	RC1402	No	No	Small Case 5289-0025
GL412N-14	Single	CR700	C70 Rod Clamp / C71 Magnetic Mount	105516	RC1402	No	No	Small Case 5289-0025

GL412N includes transmitter, Q104234 NiMH rechargeable battery pack and 95720-00 charger.







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GL1425C

Dual Grade Lasers with Bluetooth Connectivity



Key Features & Benefits

- The GL1425C is a Dual grade plus horizontal and vertical laser. Simple, accurate dial in grade from +/- 15%.
- Up to 2,600 ft (800 m) working diameter which increases productivity by reducing need for multiple set-ups on a large job site
- Fast setup, minimal training and automatic self-leveling minimize operating costs and boost productivity
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs
- 2-way full function remote control allows grade changes to be made from anywhere on the jobsite. Extremely durable and portable
- Temperature stable for high accuracy over wide temperature changes
- 900 rpm for machine control applications
- Bluetooth connection allows laser control with a smartphone
- Customizable with choice of HL760, HL450, or CR700 receivers
- Mask mode eliminates interference from other crews on the jobsite
- Automatic GradeMatch and PlaneLok

Applications

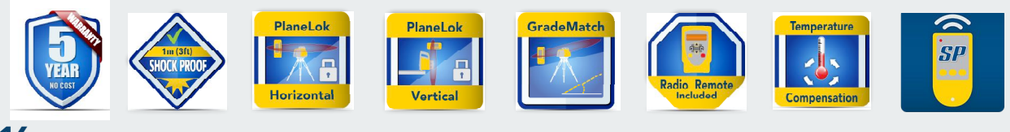
- Leveling concrete forms and footers
- General construction vertical alignment and plumb such as anchor bolt and form alignment
- "Over the top" sewer and storm drain pipe installations
- Grading and excavating
- Driveways and ramps
- Trenching
- Sport fields, tennis courts
- Steep slope road embankments and ditch banks



Part No.	Grade	Receiver	Clamp	Vertical Adapter	Remote	Rod	Tripod	Case
GL1425C	Dual	HL760	C70	105516	RC1402	No	No	Small Case
GL1425C-14	Dual	CR700	"C70 Rod Clamp C71 Magnetic Mount"	105516	RC1402	No	No	Small Case
GL1425C-BCC	Dual	No	No	No	No	No	No	Small Case

GL1425C includes transmitter, B10 NiMH rechargeable battery pack and CH10 charger.





GL622N/ GL622IR

Easy-To-Use, Full Featured Automatic Grade Lasers





RC602N Remote Control

Key Features & Benefits

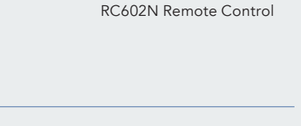
- The GL622N is a grade laser with a compensated grade range of -25% to +25%. Vertical and horizontal setups are also compensated 900 rpm.
- Quick setups with the 2-way radio remote control
- Electronic Leveling Vibration Filter dampens vibrations typically experienced on tall tripods, in high winds, or on high vibration jobsites
- Built to withstand drops up to 1 m (3 ft) onto concrete or a 1.5 m (5 ft) tripod tip-over, reducing downtime and repair costs.
- Mask mode eliminates interference with other crews on the jobsite
- Automatic Axis Alignment is easy to setup for increased accuracy
- Radio communication between the laser and HL760 receiver allow advanced features and remote display capabilities
- Long operating radio range - 490 ft (150 m)
- GradeMatch displays the existing grade over unknown ground and eliminates time consuming and error prone calculations, time spent searching for grade plans, and over excavating
- The GL622IR is a Class 1 laser. This type of beam is required in special applications where a visible beam is a safety hazard, distracting or otherwise not permissible
- 5 Year "No Cost" Warranty

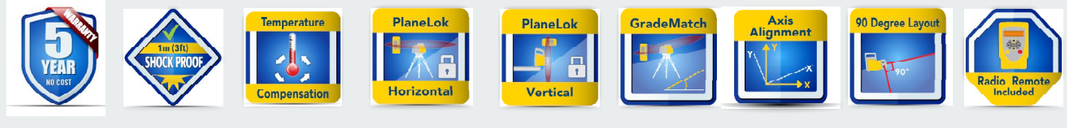
General Construction Applications

- Leveling concrete forms and footers
- General construction vertical alignment and plumb such as anchor bolt and form alignment
- "Over the top" sewer and storm drain pipe installations
- Driveways and ramps
- Grading and excavating

Part No.	Grade	Receiver	Clamp	HL Vertical Adapter	Remote
GL622N	Dual	HL760	C70 Rod Calmp	105516	RC602N
GL622-BCC	Dual	No	No	No	No
GL622IR	Dual	HL760	C70 Rod Calmp	No	RC602N

All part numbers include GL622N or GL622IR transmitter, Q104667 NiMH rechargeable battery pack, CH10 charger and 5289-0670 small carrying case.





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GL710/ GL720/ GL722

Long Range, Incredible Beam Stability


RC703 Remote Control


GL722

Key Features & Benefits

- Temperature compensation provides accurate stable results regardless of temperature changes
- Long battery life and flexible power options keep the unit working throughout the day
- Large displays make the numbers easy to read, even when set-up on a tall tripod
- Better than 8 arc second accuracy for demanding high accuracy requirements

GL710 Single Grade Laser

- Up to a to 3,000 foot (900 meter) diameter. • With -0.5 to 25% grade range, the GL710 is a great choice for general construction, site preparation, trenching and pipe-laying applications

GL720 Dual Grade Laser

- The GL720 features +/- 10% in the X axis grade range and -0.5 to +25% Y-axis grade range with high accuracy up to 3,000 foot (900 meter) diameter. The GL720 is ideal for general construction and machine control grade applications

GL722 Dual Grade Laser

- With a Long-range Radio Remote and the same range and base capabilities as the GL720, the GL722 includes all the benefits of the full Radio Remote functions… plus Automatic AxisAlignment and GradeMatch capability. Ideal for general construction, site preparation and road construction.



Applications

- General construction
- Site preparation
- Trenching
- Road construction
- Machine control





Part No.	Grade	Receiver	Clamp	Remote
GL710	Single	HL700	C70 Adapter for Receiver	No
GL710-BCC	Single	No	No	No
GL720	Dual	HL700	C70 Adapter for Receiver	No
GL720-BCC	Dual	No	No	No
GL722	Dual	CR600	C50 Adapter for Receiver and C51 Magnetic Mount	RC703
GL722-BCR	Dual	No	No	RC703
GL722IR (Infrared)	Dual	CR600	C50 Adapter for receiver and C51 Magnetic Mount	RC703

All part numbers include GL710, GL720, GL722, or GL722IR transmitter, 1445-2900 NiMH rechargeable batteries, 1445-2093 charger, and 1445-0860S case



Universal Laser UL633N

Most Versatile Construction Laser Ever



RC603N Remote Control

Key Features & Benefits

• Full control for horizontal level, single or dual grade, vertical alignments or setting out 90° angles- providing the ability to do so much more from one single laser

• Long operating radio range - 490 ft (150 m)

• High precision alignment for grades – align automatically to your grade hub for accurate grade set-ups on X, Y or XY axis simultaneously. Only grade laser on the market that provides the ability to have a second grade axis that can be set from 10° to 170°. For car park set ups or other applications where two grade axes are not at 90°. No need to spend time calculating the set-up just align to the receivers and start working

• **Grade matching** – measures and displays the grade between 2 elevations over unknown ground also simultaneously on two axes

• Precise control for high accuracy applications such as concrete floors – the laser will lock onto the receiver and stay fixed in the on-grade position all day eliminating costly drift caused by temperature fluctuations – **PlaneLok**

• Fast vertical alignment – laser will align either to the receiver or SpotFinder for vertical alignments such as façade installation, building axis alignment or kerbs.

• **Rapid 90° degree layout** – set a 90° angle in seconds with no complex calculations

• Various power options – keeping you working when you need to work

• Intuitive menu driven operation – no secret button pressing, select your mode and start working

• Versatility to fit any construction application providing more value and higher return on your investment – do more with one product

Applications

• Levelling concrete forms and footers

Vertical alignment for anchor bolts, building axis, • facades and form alignment

• Dual slope grading and steep slope excavation

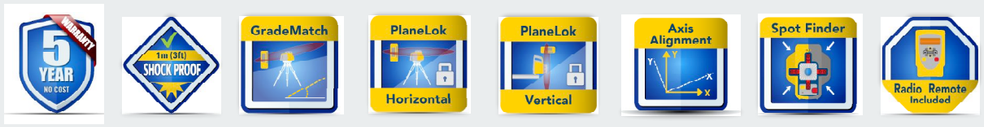
• Slope work for sports fields, driveways, parking garages and ramps

• Layout of concrete pads and for any job requiring 90° layout outdoors

Part No.	Receiver	Clamp	HL Vertical Adapter	Spot Finder	Remote
UL633N	2x HL760	2x C70	105516	SF601 with Adapter	RC603N
UL633N-BCC	No	No	No	No	No

All part numbers include transmitter, Q104667 NiMH rechargeable battery pack, CH10 charger, and 5289-0670 small case





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DG613/ DG613G/ DialGrade

Compact Power with a Bright Green Beam



Key Features & Benefits

- Reduced length to make it easier to fit in pipes around tighter inverts
- Self levelling range of -12% to +40% over the entire grade range
- Cross axis compensation provides a quicker more accurate set-up as the laser does not have to be level in the pipe – place it in the pipe it levels, you work.
- Bright visible beam that works up to 500ft (150m)
- Remote Control RC803 works 430ft (130m) with radio for the laser installation above the trench and 500ft (150m) with infrared through the pipeline
- Large, bright, graphical user interface makes the screen easier to see and use when in or out of the pipe. Same graphical user interface can be seen on the remote – what you see on the laser you see on the remote.
- The DG613(G) has flexible power options that provide 40 (30) hours operating time (NiMH rechargeable batteries with worldwide charger). Alkaline batteries can be used directly in the laser without a separate battery pack. Additional car charger can be purchased to keep you working even when out in remote areas.
- The Spectra Precision DG613(G) has advanced functionality that makes setting up and using it easier and more accurate:
- Line-Set/Check – allows the user to align the laser to the manhole quickly and easily to set direction. The beam will go up to 100% allowing easy alignment even in short trenches
- Line Scan – provides a quick alignment to the centre of the target
- Line Alert- notifies the user if the set-up is disturbed eliminating costly re-work from errors

Applications

- Installation of gravity flow sanitary pipelines
- Storm sewer pipelines
- Pipe jacking
- Tunnel boring
- Can be used in a pipe or in over the top set-ups

Part No.	Components	Power
DG613	DG613 Laser, 1248 trivet plate (200mm / 8in), RC803 IR/Radio Remote Control, 956 target set	NiMH Recharge
DG613-5	DG613 Laser, 1248 trivet plate, 1230 large invert plate, 1239 vertical pole, RC803 IR/Radio Remote Control, 956 target set	NiMH Recharge
DG613-13	DG613 Laser – Over-the Top Package, 1248 trivet plate,1263 precise scope, RC803 IR/Radio Remote Control, P25 power outlet charger, 2 x NiMH battery packr	NiMH Recharge
DG613G	DG613G Laser, 1248 trivet plate (200mm / 8in) RC803 IR/Radio Remote Control, 956G target set	NiMH Recharge
All part numbers include the pipe laser, Q104667 NiMH rechargeable battery pack, CH10 charger, and 5289-0036 carrying case unless otherwise noted		





DG813 DialGrade

Small, Tough and Smart Perfection in a Pipe



Key Features & Benefits

- Reduced length to make it easier to fit in pipes around tighter inverts
- Self-levelling range of -12% to +40% over the entire grade range
- Cross axis compensation provides a quicker more accurate set-up as the laser does not have to be level in the pipe – place it in the pipe it levels, you work
- Bright visible beam that works up to 500ft (150m)
- Remote Control RC803 works 430ft (130m) with radio for the laser installation above the trench and 500ft (150m) with infrared through the pipeline
- Large, bright, graphical user interface makes the screen easier to see and use when in or out of the pipe. Same graphical user interface can be seen on the remote – what you see on the laser you see on the remote
- The DG813 has flexible power options that provide 40 hours operating time (NiMH rechargeable batteries with Worldwide charger). Alkaline batteries can be used directly in the laser without a separate battery pack. Additional car charger can be purchased to keep you working even when out in remote areashe
- Spectra Precision DG813 has advanced functionality that makes setting up and using it easier and more accurate
- Line-Set/Check – allows the user to align the laser to the manhole quickly and easily to set direction. The beam will go up to 100% allowing easy alignment even in short trenches
- Line Scan – provides a quick alignment to the centre of the target
- Line Alert- notifies the user if the set-up is disturbed eliminating costly re-work from errors

The SF803 SpotFinder, when used with DG813, provides other automatic functions making it the smartest pipe laser in the industry :

- SpotAlign – automatically aligns the DG813 to the centre of the SpotFinder in the pipe or to the direction of the manhole when used in a trench or “over-the-top” set up
- SpotMatch – a great tool for checking that pipe has been installed to the correct grade or for finding the grade of existing pipe work. Can also be used to calculate the grade between manholes
- SpotLok – can be used to lock the beam in a desired position for applications such as solar farms where the beam could be subject to drift
- Spot Search – can be used to locate the beam over long distances out of the trench

Applications

- Installation of gravity flow sanitary pipelines
- Storm sewer pipelines
- Pipe jacking
- Tunnel boring

Part No.	Components	Power
DG813	DG813 Laser, 1248 trivet plate 8 inch (200mm/ 8in), RC803 IR/Radio Remote Control, SF803 Spot Finder, P24 pole adapter & target plate, 956 target set , ST805 Transporter	NiMH Recharge
DG813-5	DG813 Laser, 1248 trivet plate, 1230 large invert plate, 1239 vertical pole, RC803 IR/Radio Remote Control, SF803 Spot Finder, P24 pole adapter & target plate, 956 target set, ST805 Transporter	NiMH Recharge
All part numbers include the pipe laser, Q104667 NiMH rechargeable battery pack, CH10 charger, and 5289-0036 carrying case		





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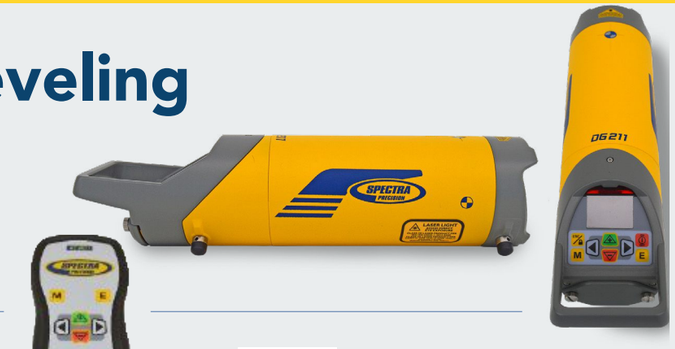
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DG211 Self-Leveling 4" Pipe Laser

Available to order only in UK, EMEA & APAC



RC201

Applications

- Pipe laying
- Alignment
- 4 inch pipes
- Perfect for house connections

Key Features & Benefits

- Fits into a 4 in / 100 mm pipe (inner pipe diameter)
- Legs available to adopt to pipe diameter
- 125mm, 150mm, 200mm, 225m, 250mm, 300mm
- Remote can switch off the laser
- Grade range -20% to +30%
- Self leveling range only -10% to +25%

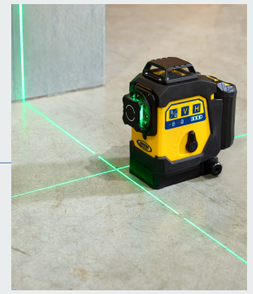


Part No.	Components	Power
DG211	DG211, PIPE LASER, LC3, RC201, LI-ION, CHARGER, TARGET, LEGS 125, SMALL CASE	Li-Ion pack or 4 C-Cell alkaline
DG211-LC2-1	DG211, PIPE LASER, LC2, RC201, LI-ION, CHARGER, TARGET, LEGS 125, SMALL CASE	

HR1220 Line Laser Receiver

Special Receiver for Use with Line Lasers





Applications

- Extends versatility of red or green beam laser line generators
- Longer distance interior layout and exterior leveling
- Ceiling grid and raised access floor installations

Key Features & Benefits

- Front and rear LCD provides ease of viewing
- Illuminated LCDs for easy-to-see readings in low light conditions
- Two accuracy selections to fit various jobsite requirements
- Large 3 inch (80 mm) reception height for quick beam acquisition
- Includes C20 rod clamp for attachment to rods
- Dual level bubbles for accurate horizontal and vertical readings
- Built-In magnets on top of receiver for attachment to ceiling grids or metal studs
- Marking notches on each side at on-grade for easy transferring of 4 ft (1 m) marks

HL450 Digital Receiver

Ideal for Use with any Rotating Transmitter







Applications

- Checking elevations
- Basement excavation
- Digging septic tanks
- Checking foundations
- Digging footings
- Setting forms
- Checking sub-base materials
- Screeding concrete

Key Features & Benefits

- Digital readout of elevation allows faster readings by displaying the exact numerical distance from grade, eliminating the need to move the receiver to get to "on-grade"
- Anti-Strobe Sensor stops construction strobe lights from setting off the receiver, and eliminates phantom strikes for easier identification of true laser beam signals
- Large 4-inch (10.2-cm) reception height allows faster readings by acquiring the beam quickly, and makes it easier to stay in the beam
- Withstands direct drops up to 5 feet (1.5 meters) on to concrete providing less downtime due to damage and service requirements
- Full weather and dust proof design, including the battery compartment assures a longer product life and/or repair costs
- Approximately 60-hour battery life with 2 x AA batteries keeps work going on the jobsite
- Automatic power shutoff (after 30 minutes) reduces annual battery cost
- C45 Rod Clamp included

HL700 Digital Readout Receiver

Highly Versatile Receiver for Basic and Advanced Leveling and Aligning







Applications

- Checking elevations
- Basement excavation
- Digging septic tanks
- Checking foundations
- Digging footings
- Setting forms
- Checking sub-base materials
- Screeding concrete

Key Features & Benefits

- Digital Readout of Elevation provides a numeric display of ± 2 inches (± 5 cm) and shows exactly how far the elevation is from on-grade
- A large 5 inch (12.7 cm) reception height, more than double the industry standard, allows quick acquisition of the laser beam
- 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
- Multiple on-grade sensitivities to customize accuracy needs to application
- Designed to survive the tough construction site conditions; it is totally waterproof and can withstand a drop of 10 feet (3 meters) onto concrete
- Simultaneous elevation LEDs signal in low light levels and over a longer range provide easier reading in poor light
- Two clamp positions for cut/fill or excavation. Excavation mode puts more reception height and elevation information above grade for higher utilization in digging and staking applications
- C70 Rod Clamp with Bubble Vial included
- Three-year "No Excuses" warranty

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HL760/HL760U Radio Digital Readout Receiver

Highly Versatile Receiver for Basic and Advanced Leveling and Aligning









Applications

- Remote grade checking with cable free Remote Display
- Wireless monitoring of foundations and steel erections
- Risk free monitoring of tilt up wall position

Setting and checking jobsite elevation and depth for:

- Cut and fills and grading
- Foundations, forms, and footings
- Excavations



Key Features & Benefits

- Digital readout of elevation – not only will high or low arrows be displayed, but the exact distance from grade will be displayed, which eliminates the need to get "on-grade" to make measurements
- Large 5 inch (12.7 cm) reception height acquires the beam quickly and makes it easy to stay in the beam
- The HL760 / HL760U has an internal, long range; high speed digital radio built inside that allows the receiver to communicate with any other HL760 / HL760U: LL1505SC, HV1305C, GL412N / GL1425C, GL612N/GL622N, UL633N or HV1305GC laser transmitters
- Machine operators can monitor elevation shots taken by another person or foremen can monitor elevations and cut/fill readings from anywhere on the jobsite
- Anti-strobe sensor stops construction strobe lights from setting off the receiver, and makes it easier to identify true laser beam signals
- Multiple deadband setting allows adaptation to meet all your jobsite requirements
- Dust and weatherproof housing withstands a drop of up to 10 ft (3 m) onto concrete for reduced downtime
- Two clamp positions for cut/fill or excavation
- Three-year "No Excuses" warranty
- HL760/HL760U settings for sensitivity can be changed to low to overcome false readings caused by LED lights.
- C70 Rod Clamp with Bubble Vial included
- C70 Clamp has a patented reversible jaw to allow a more solid fix to round or square rods.
- HL760U works with both red and green beam lasers
- When working in deep excavations the capture mode allows the user to pick up the laser elevation without having to adjust the receiver to the on-grade position – it tells you how far off on-grade you are.

Specific HL760 Receiver Feature



RADIO Function
Choose a model with radio built-in and you will be able to control your rotating laser to enable advanced features such as GradeMatch, Axis Alignment, PlaneLok and Automatic Vertical Alignment.

Please note function is only available on some Spectra Precision rotating lasers.

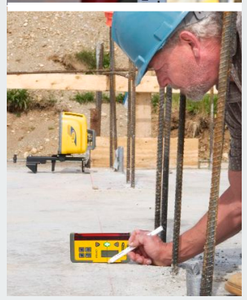
CR700 Combination Receiver

Machine or Rod Mounted Combination Receiver









Key Features & Benefits

- Bright LED Arrow Displays – new red/green/blue LED arrows are super bright and visible in all conditions
- Magnetic Clamp – new C71 magnetic clamp will not slip on the machine no matter how rough the work is
- Light Bar Technology – patented laser reception technology delivers the most accurate, consistent and reliable performance
- Laser Radio – the CR700 is radio-compatible with the GL400N / GL600N / GL1425C series grade lasers and the HV1305C and LL1505C enabling the use of time saving functions such as GradeMatch, PlanLok and AxisAlignment
- IP67 – dustproof, waterproof, weatherproof
- 10-foot (3 m) Drop Guarantee – almost destruction proof, extremely robust; eliminates downtime
- Digital Read-Out – the CR700 provides the exact distance from on-grade numerically
- Remote Display – pair the CR700 receiver with an HL760 receiver to be used as a remote display — useful for machine operators and site supervisors



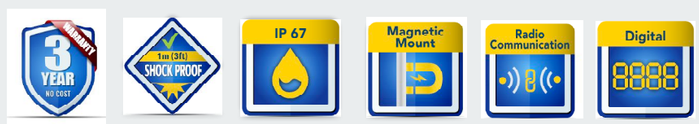
- Backlight – Receiver can be viewed in the dark or low light conditions
- Vertical Drift Alarm – Warns if the laser is disturbed when using in the vertical mode
- 3-Year Warranty – the best warranty on laser receivers

Includes C70 adapter with bubble vial

Includes C71 Magnetic Mount

Applications

- Digging footings
- Basement and trench excavations
- Checking sub-base materials
- Setting and checking elevations
- Leveling and aligning forms
- Screeding concrete
- Vertical alignment



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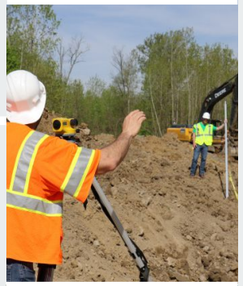
Automatic Level

Easy-to-Use Optical Auto-Level

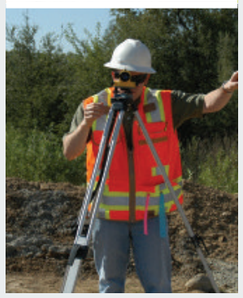


Air dampened model shown









Key Features & Benefits

- Choice of magnetic or air dampened automatic compensators
- Double-sided, continuous horizontal tangent drives
- Stadia lines for simple distance measurement
- Convenient horizontal angle measurement
- Built in bubble mirror and sighting guide
- Metal housing for increased durability
- Water resistant construction
- Includes hardshell case
- Two-person leveling across the job site
- Leveling forms and footers
- Checking elevation
- Measuring cut and fill

AL20M

Part No.	Power/Damp	Tripod	Rod
AL20M	20X / Magnetic	No	No

AL24A, AL24M

Part No.	Power/Damp	Tripod	Rod
AL24A	24X / Air	No	No
AL24A-1	24X / Air	5301-27-BLK-SP	GR151
AL24A-2	24X / Air	5301-27-BLK-SP	GR152
AL24M	24X / Magnetic	No	No
AL24M-1	24X / Magnetic	5301-27-BLK-SP	GR151
AL24M-2	24X / Magnetic	5301-27-BLK-SP	GR152

AL28M

Part No.	Power/Damp	Tripod	Rod
AL28M	28X / Magnetic	No	No
AL28M-2	28X / Magnetic	5301-27-BLK-SP	GR152

AL32A

Part No.	Power/Damp	Tripod	Rod
AL32A	32X / Air	No	No



DET-2 Construction Theodolite

Full-Featured Digital Theodolite for Construction











Key Features & Benefits

- 2 arc seconds angular accuracy - accurate enough for any construction job, yet the display resolution can be tailored to any operator's preferences for fast readings
- Vertical axis compensation - tilt sensor provides the highest level of accuracy and can be turned on or off depending on job requirements
- Dual LCD with large characters - easy to see angle readings eliminate errors and reduces eye fatigue
- Simple six button keypad - quick setups and simple operation with low operator learning curve
- Large suite of programmable settings - provide multiple options for various users and job requirements including zero position of vertical angle
- Measurement units in degrees, gon, or mils
- 90 Degree angle audible notification - for quick turning and set out of right angles
- Instant conversion of vertical angles to percent of grade - convenient for slope work and when used in conjunction with Dialgrade® pipe work
- NiMH rechargeable battery pack and charger - lower operating cost with reusable batteries
- Alkaline battery pack standard - provides backup and eliminates downtime if the charge is lost in the middle of a job
- Each DET-2 comes equipped with a plumb bob, NiMH rechargeable battery pack and charger, alkaline battery pack, adjustment tools, rain hood, multi-language user guide, and hardshell, compact, o-ring sealed carrying case

Applications

- Establishing 90 degree reference lines
- Checking angles, alignment, and plumb
- Anchor bolt alignment
- Gravity flow pipe laser setup
- Steel column placement
- Alignment of forms, tilt-up walls, and curtain walls
- Basic grade work
- Short range leveling

Part No.	Power	Case
DET-2	NiMH & Alkaline packs	O-ring sealed hard case



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QM Series Quick Measure Lasers

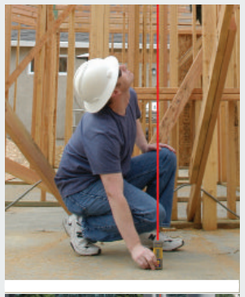
Digital Distance Measuring



QM10



QM20





Key Features & Benefits

- One-person operation allows safe measuring to difficult-to-reach or hazardous locations
- More accurate than traditional measuring tapes
- Small, compact - fits in your pocket or toolbelt
- Illuminated display - easy to read in low light conditions
- Long battery life - over 5000 measurements

Applications

- Measuring distance
- Measuring for material estimation
- Safely measurement on places, where hard to reach

QM10

Small and compact
- Fits in your pocket; easy to carry and transport

Simple to operate
- Press a single button and measure

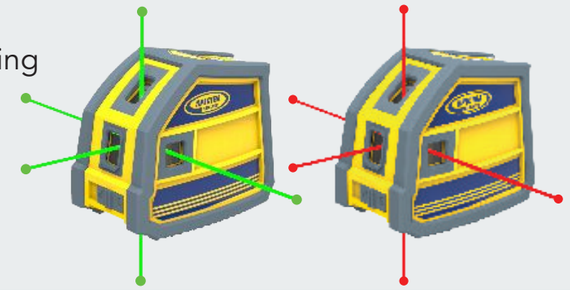
QM20

Area and volume functions
- Easy quick calculations of common tasks

Pythagoras functions
- Provides indirect height or width for inaccessible areas

LP51 / LP51G Laser Pointers

5-Point Red & Green Beam Self-Leveling Pocket Lasers









Key Features & Benefits

- The LP51 and LP51G project 5 beams - one beam up, one down and three beams at 90 degrees to each other
- Choice of green beam LP51G or red beam LP51
- Self-leveling and universal accessories allow for setup in multiple applications
- Patented technology... highly visual in all conditions for better productivity
- Beam flashes if it becomes out of level for any reason
- Easily fits in your tool belt so it's always at hand
- 3 year instant exchange warranty minimizes downtime
- Able to withstand a 3-foot (1 meter) drop... IP54 rated
- Pointers ship in retail box with soft pouch, target and mounting accessory

Applications

- Level, horizontal and vertical layout, checking plumb
- Point transfer
- Checking square
- Layout of interior walls
- Drywall track installation
- Cabinet & trim installation, finish carpentry
- Reference points for sprinkler systems, HVAC, lighting

Part No.	Points	Bracket	Target	Case	Power
LP51	5	Magnetic 1213-0100	Red Ceiling/Floor 23416	Soft Pouch	2 x AA Alkaline
LP51G	5	Magnetic 1213-0100	Green Ceiling/Floor 1215-1560	Soft Pouch	2 x AA Alkaline





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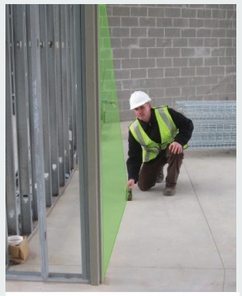
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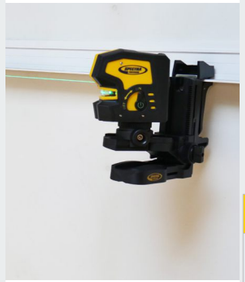
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LT20XG Green Crossline Lasers

Simple to Use – Perfect for Interior Construction









Key Features & Benefits

- Rugged – robust design allows work to continue even after dropping
- Bright lines – easy to see even in areas with bright light
- Versatile accessory – can be used for any application
- Wide fan beam angles – provides maximum coverage
- 2-year warranty – best coverage for professional construction work
- Includes a pouch, target, mounting bracket, mounting strap, batteries and user guide

Applications

- Level, horizontal & vertical layout, square, & plumb
- Building, layout, & squaring of interior walls
- Acoustical ceiling installation (small rooms)
- Drywall track installation
- Cabinet & trim installation, finish carpentry

Part No.	Bracket/Clamps	Target	Power	Charger
LT20XG	Wall bracket & Ceiling Clamp (1215-1560)	Green Ceiling/Floor (1215-1560)	(4) AA Alkaline batteries	Charger & USB type C cable (1225-5000)

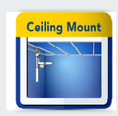




TR10 Mini Tripod for Laser Tools







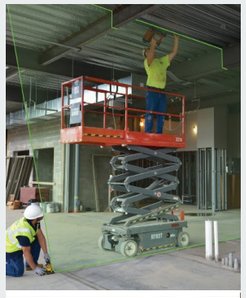


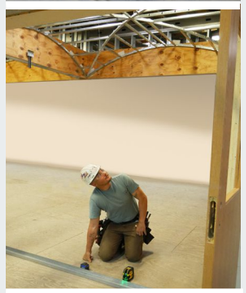


LT180G 4 Point & 2 Cross Line Laser

The Tool for All Trades









Key Features & Benefits

- The LT180G eliminates the need for a contractor to purchase two tools by combining a 4-beam laser pointer with a horizontal and vertical cross line laser into one product. The versatile, automatic self-leveling laser tool can be used in a wide variety of construction applications.
- Productive for interior jobs, and exterior elevation and alignment applications with optional HR1220 receiver.
- Two tools in one - horizontal and vertical crosslines, plus a 4 beam laser pointer.
- High visibility - points are bright, round, and sharp. Floor to ceiling point transfer in seconds.
- Battery - Powerful & Removable Li-ion Battery- for reduced downtime.
- Versatile - replaces a square, plumb bob, level, optical instruments in the toolbox.
- IP Rating- IP54
- Fast and Accurate Set-up - self-leveling and advanced dampening technology.
- Compact - easily fits in your tool belt so it's always at hand.

Applications

- Level, horizontal and vertical layout, square, and plumb
- Building, 90° layout, and squaring of interior walls
- Point transfer
- Acoustical ceiling installation
- Drywall track installation
- Cabinet and trim installation, finish carpentry
- General construction elevation control with HR1220 receiver
- Exterior building decks, patios, columns, and posts

Part No.	Bracket/Clamps	Target	Case	Battery	Power
LT180G	Wall bracket and ceiling clamp (1215-1110)	Green Ceiling/Floor (1215-1560)	Hard Case (1225-3200)	Removable Li-ion Battery, 7.2V, 3000mAh (LS3181)	Charger & USB type C Cable (1225-5000)





















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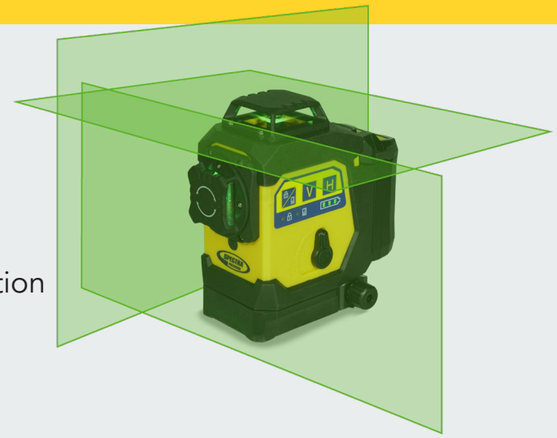
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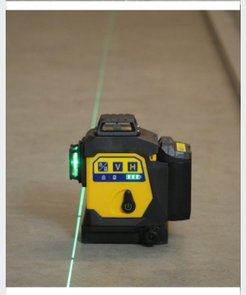
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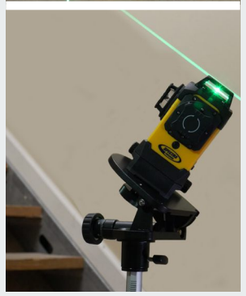
LT360G Rugged Green Laser Layout Tool

Simple to Use – Perfect for Interior Construction









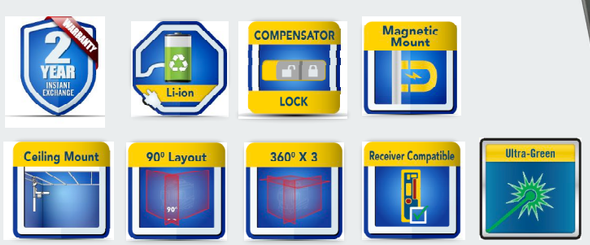
Key Features & Benefits

- Ultra-bright green laser technology - the industry's brightest lines for easy viewing in all conditions.
- 360° Green beams extend the working range for fewer setups.
- Accuracy of +/-3mm @ 10m (1/8" at 30')
- IP Rating- IP54
- Lit-Ion batteries - delivering up to 8 hours of continuous green beam operation. You can also use your laser while connected to a convenient USB-C charger.
- Built in Fine Adjustment Knob - for fast 90° layout alignments
- Automatic self-leveling assures accuracy and fast setup.
- Optimized for ceiling work - mounting accessory attaches to all types of ceiling track.
- Compensator lock and hard-shelled carrying case for protective transport and storage.
- Full 2 - year warranty with instant exchange

Applications

- Level, horizontal & vertical layout, square, & plumb
- Building, layout, & squaring of interior walls
- Acoustical ceiling installation
- Drywall track installation
- Cabinet & trim installation, finish carpentry
- General construction elevation control with HR1220 receiver
- Reference points for sprinkler systems, HVAC, lighting
- Exterior building deck footings, patios, columns, & posts

Part No.	Bracket/ Clamps	Target	Case	Power	Charger
LT360G	Long wall bracket & ceiling clamp (1225-5400)	Green Ceiling/ Floor (1215-1560)	Hard Case (1225-1200)	Removable Li-ion battery, 11.1V, 2000mAh (LS3190A)	Charger & USB type C cable (1225-5000)





LR20 Receiver

Compact Receiver for Compact Machines







Applications

- Landscaping, building pads, sports fields, concrete flatwork, tennis courts
- Ideal for mini-excavators
- Footers, storm drains, utility, sewage
- General construction grade and depth control

Key Features & Benefits

- Designed to be used on smaller machines – LR20-1 comes with smaller adjustable magnetic mount ideal for mini-excavators
- 360 degree reception and 8 inch (203 mm) vertical reception provide large working area and range making it easier to get to desired elevation without over-digging
- Rugged housing allows the receiver to be used in the toughest jobsite conditions
- Super bright LED display providing easily visible depth and elevation control to the user
- Easy to use with a simple push button set-up
- Ideal for both grading and excavating
- Built-in plumb indication makes grade checking simple and easy and avoids errors
- LR20 has a spare / extra clamp to fit the MM-1

Part No.	Batteries	Magnetic Mount
LR20	NiMH	No
LR20-1	NiMH	MMM

LR30 & LR30W Receiver

Used on Dozers, Box Blades & Levelers







Applications

- Machine mounted grade checking
- Grading and leveling

Key Features & Benefits

- Three selectable accuracy settings allowing the user to rough grade through to final finish
- Full 360 degree reception – picking up the laser beam wherever you are working reducing downtime and eliminating errors
- Choice of batteries and mounting kit packages
- LR30W provides wireless link to RD20 remote display that can be placed in cab in the operators peripheral vision so they concentrate on what is happening at the bucket or blade
- Robust and built for jobsite environment – 2 year warranty

Part No.	Batteries	Mount
LR30	NiMH	No
LR30-1	Alkaline	No

Part No.	Batteries	Mount	Remote Display
LR30W	NiMH	No	RD20

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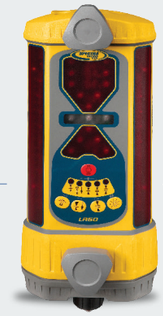
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LR50 & LR50W Receiver

Blade Tilt & Plumb Indicator







Applications

- Machine mounted grade checking
- Grading and leveling
- Excavation and trenching

Key Features & Benefits

- Plumb Indication – for fast, accurate grade checking when excavating
- Blade Tilt Indication –helps the operator keep the blade level for increased accuracy and productivity. Tilt can be set to an existing angle too providing more flexibility for the operator
- Center on-grade provides an equal amount of grade information above and below grade when used on grading machines
- Offset on-grade provides more range above the on-grade position using the entire receiver to avoid over-digging
- LR50W provides wireless link to RD20 remote display in cab for easier reference by the operator
- Robust and built for jobsite environment – 2 year warranty

Part No.	Batteries	Magnetic Mount
LR50	NiMH	No
LR50-MM	NiMH	MM-1
LR50-1	Alkaline	No

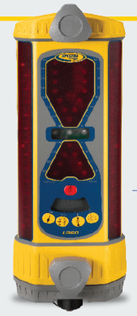
Part No.	Batteries	Mount	Remote Display
LR50W	NiMH	No	RD20
LR50W-MM	NiMH	MM-1	RD20
LR50W-DM	NiMH	DM-20	RD20

LR60 & LR60W Receiver

Angle Compensation for Excavation







Applications

- Machine mounted grade checking
- Grading and leveling
- Excavation and trenching

Key Features & Benefits

- Patented Angle Compensation Indication - automatically calculates and corrects the grade display for the angle of the dipper arm when excavating allowing the operator to check grade in multiple locations without moving the machine
- Check grade with the dipper arm extended to or retracted up to 30 degrees
- Four selectable accuracies – allowing for rough or precise work
- Center on-grade provides an equal amount of grade information above and below on-grade when used with dozers, mini-graders, levellers and drag boxes
- Offset on-grade provides more range above the on-grade position using the entire receiver to avoid over-digging
- Robust and built for jobsite environment

Part No.	Batteries	Magnetic Mount
LR60	NiMH	No
LR60-MM	NiMH	MM-1

Part No.	Batteries	Mount	Remote Display
LR60W	NiMH	No	RD20

Receiver Accessories

Wireless Remote Display & Mounts





RD20 Wireless Remote Display



- Wireless remote mounts in the cab and displays grade information to the operator. Helps keep focus on the work and not on the receiver for higher productivity. Works with LR30W, LR50W & LR60W

Applications

- Remote Display is used when the receiver is behind the operator or is otherwise difficult to see, i.e. pulled drag boxes, scrapers, or trenchers
- Magnetic Mount is used to quickly attach receivers to backhoes and excavators

Part No.	Description
RD20	RD20 Remote Display
RDM-1	Mount, RD10 Swivel
010983	Cable, RD10 + RD20 Power, Lighter/power adapter
MM-1	Magnetic Mount for LR Receivers
DMM2	Bulldozer Bolt-On Mount

Product Application

Machine Type	Model	Application
Backhoe	Use **CR700** or **LR20** or **LR50**	**Excavating**
Skid-steer Loader	Use **CR700** or **LR20** or **LR30** or **LR30W (w/remote display)**	**Grading**
Mini Excavator	Use **CR700** or **LR20**	**Excavating**
Skid-steer w/blade	Use **LR30** or **LR50** or **LR30W/LR50W (w/remote display)**	**Grading**
Smaller Dozer	Use **LR30** or **LR30W (w/remote display)**	**Grading**
Large Excavator	Use **LR60** or **LR60W (w/remote display)**	**Excavating**
Large Dozer	Use **LR50** or **LR50W (w/remote display)**	**Grading**

MM-1 Magnetic Mount



- Works with all LR receivers and quickly attaches to the dipper arms of excavators or backhoes
- Strong dual magnet packs will not slip on the machine
- Magnets are adjustable, can be positioned around hoses or piping, for quick installation and set-up
- Release lever aids in detaching from machine

DMM2 Dozer Mast Mount



- Designed to work on bulldozers with flat back blades
- Magnets are adjustable, can be positioned for quick installation and set-up
- DMM2 mount should be used for hardpan or excessive vibration applications
- Part No. ATI991364-02

DM-20 Dozer Bolt-On Mast



- Adjustable mount installs with no welding. The mast mount bolts instantly to machines that come from the factory in popular configurations.

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Accessories and Components for Rotating Lasers

Cases



All rotating lasers are housed in a jobsite-tough carrying case with customized pockets to hold all accessories

1282-1970	LL100/HV101 Small Carrying Case
1282-1981	LL100/HV101 Large System Case
5289-0025	GL4X2N, LL300N, LL300S, LL400HV Small Carrying Case
128994-00	GL1425C, LL1505C Small Case
5289-0026	HV302, HV302G Small Carrying Case
5289-00670	UL633N/GL6X2N Carrying Case
1046-4750S	LL500 Carrying Case
1445-0860S	GL7XX Carrying Case
100981-00	HV1305C, HV1305GC Medium Carrying Case
128995-00	GL1425C, LL1505C, HV1305C, HV1305GC System Carrying Case

Wall Mounts



M101 wall mount for HV101



M304 wall mount for HV1305C/HV1305GC

Signal Transporter



ST805 increases the radio distance up to two times of grade lasers, pipe lasers HV302 and LL300S lasers

Remote Controls



RC601 Remote Control for HV101, HV301, HV301G, LL100, LL100N, LL300, LL300N

RC1402 Remote Control for LL300S, HV302, HV302G, GL4X2N

RC1402 Remote Control for GL1425C

RC602N Remote Control for GL6X2N, GL1425C

Laser Glasses



Q100206 Red Laser Glasses
Q104252 Green Laser Glasses

Increases the visibility of the laser beam under bright light conditions

Targets



1176 Reg Magnetic Target
Q100206 Green Magnetic Target

- Optically enhanced, patented – increases beam visibility by 2.5 times.
- Half translucent, half reflective
- Magnetic mounting, magnet is permanently molded in for extra durability

Clamps

M402 Batter Board Clamp



4852-15 Column Clamp



M401 Tilting Base



TR10 Mini Tripod for Laser Tools



Accessories and Components for UL633N



RC603N Combined Radio/IR Remote Control for all applications including pipe laying



SF601 Spot Finder for manual and automatic detection of the plumb beam



Q104865 Adapter for SF601 allows various setups



HL760 Digital Receiver to measure and display beam location



Optional 1243-0101 Sighting Scope

Included Pipe Laser Accessories



RC803 Remote



956 / 956G Optically Enhanced



1248 Trivet Plate



Q104667 Rechargeable NiMH Pack, 10 Ah



Q104781 Charger



Spot Finder SF803 (DG813)



ST805 Transporter (DG813)

Optional Pipe Laser Accesories



929 Blower



1017 Manhole Mount



936 Adjustable Large Pipe Target



1161 Heavy-Duty Wood Tripod



1263 Sighting Scope with Adapter



1244 T-Bar



1230/1237 Metal Invert Plate



P25 Cable w/ Cigarette Lighter Plug



1239 Extended Height Vertical Pole



P24 Pole Adapter for Spot Finder SF803

Heavy Duty Tripods



1161



2161



2162

Applications

- Lasers
- Instruments

Key Features and Benefits

- Stable and accurate for most applications
- Choices of wood, aluminum and elevating base
- Telescopic legs allow setup at various heights
- 5/8 x 11 threaded post accommodates standard instruments and lasers
- 2161 packaged with LL500 kits

Part No.	Material	Extension
1161	Wood	Extends from 3 ft 2 in to 5 ft 3 in (96 cm to 160 cm)
2161	Aluminum	Extends from 3 ft 6 in to 6 ft 1 in (106 cm to 185 cm)
2162	Aluminum	Elevating Base - Extends from 4 ft 3 in to 7 ft 6 in (130 cm to 228 cm)

Medium Duty Tripods



Q104025



5301-27-BLK-SP

Applications

- Lasers
- Instruments

Key Features and Benefits

- Sturdy and lightweight for many applications
- Telescopic legs allow setup at various heights
- 5/8 x 11 threaded post accommodates standard instruments and lasers

Part No.	Material	Packaged With
Q104025	Aluminum	LL100N, LL300S/N, HV101
5301-27-BLK-SP	Aluminum	AL Auto Level Kits
5301-31-ORG	Aluminum	Square Dowels, Orange

Specialty Tripods



90550



5321-17-ORG

Applications

- Lasers
- Instruments (Surveying)
- Machine control

Key Features and Benefits

- Tri-Max is a surveying grade tripod with certified accuracy
- Adjustable legs, portability, heavy-duty construction ensure long field life.

Part No.	Material	Extension
90550	Fiberglass	Quick Clamp, Extends to 5.9 ft (1.8 m)
90553	Fiberglass	Dual Clamp, Extends to 5.9 ft (1.8 m)
5321-17-ORG	Fiberglass	X-Tall, Elevating, Extends 12.4 ft (3.8 m)
TR10	Aluminum	5 ft (1.5 m)

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Aluminum Grade Rods

Applications

- Grading
- Leveling
- Sitework
- Landscaping
- Foundations

Key Features and Benefits

- Aluminum leveling rods are made of a light and durable alloy
- Telescopic sections are anodized and silk-screened with moisture-resistant ink
- Each rod section uses sturdy polycarbonate buttons that lock each section when extended; the height gauge is on the back side
- Each rod includes a protective bag

Part No.	Length	Sections	Scale
GR151	15 ft	5	Tenths
GR152	15 ft	5	Inches
GR153	4.7 m	5	Metric

Part No.	Length	Sections	Scale
7321-40	13 ft	4	Inches
7301-40	13 ft	4	Tenths
7301-50	16 ft	5	Tenths



Fiberglass Grade Rods

Applications

- Grading
- Leveling
- Sitework
- Landscaping
- Foundations
- Surveying (SVR-LR)

Key Features and Benefits

- CR Series Leveling Rods are perfect for laser detector mounting — no special brackets are required
- Rectangular shape with rounded back corners for better gripping
- SVR oval fiberglass rods are a surveying standard. Additional models available
- SVR 25 features a short collapsed length (58-1/2 inches) for convenient storage
- LR series are round with extended lengths

Part No.	Length	Model	Scale
92002	8 ft	CR	Inches
92021	13 ft	CR	Tenths
92022	13 ft	CR	Inches
92041	16 ft	CR	Tenths
92042	16 ft	CR	Inches
92031	20 ft	CR	Tenths
92032	20 ft	CR	Inches
92046	5 m	CR	E metric

Part No.	Length	Model	Scale
98010	25 ft	SVR	Tenths
90004	25 ft	LR-STD	Tenths
90009	25 ft	LR-STD	Inches
90024	35 ft	LR-PRO	Tenths
90026	45 ft	LR-PRO	Tenths



CR SVR

Specialty Grade Rods

Applications

- Laser Grade Checking
- Leveling
- Sitework
- Landscaping
- Foundations

Key Features and Benefits

- Direct Elevation (DE) rods are made of aluminum
- Laser DE rods feature a side rail for attaching optional bracket for laser receiver
- Continuous tapes are stainless steel
- Latch in back locks the band in any position to match a benchmark elevation
- Wear resistant Delrin® end-rollers

Part No.	Length	Sections	Scale
CTO-0319-4300	10 ft	2	Tenths
CTO-0319-4310	15 ft	2	Tenths



CTO-C62
DE Rod Bracket for HL receivers



	Laser Levels			Horizontal and Vertical Lasers		
	LL300N	LL1505C	LL500	HV101	HV1305C	HV1305GC
Accuracy	3/32 in @ 100 ft 2.2 mm @ 30 m (15 arc seconds)	1/16 in at 100 ft 1.5 mm at 30 m (10 arc seconds)		1/8 in @ 100 ft 3 mm @ 30 m (20 arc seconds)	1/16 in at 100 ft 1.5 mm at 30 m (10 arc seconds)	1/16 in at 100 ft 1.5 mm at 30 m (10 arc seconds)
Laser type / classification	639 nm, Class 2	639 nm, Class 2	670 nm, Class 2	635 nm, Class 3A/3R	639 nm, Class 3A/3R or 2 (only in EMEA)	520 nm, Class 3A/3R or 2 (only in EMEA)
Operating diameter	1,650 ft (500 m)	4000 ft (1200 m)	1,650 ft (500 m)	Receiver: 1150 ft (350 m) Visible: 200 ft (60 m)	4000 ft (1200 m)	4000 ft (1200 m)
Self-leveling range	±5 degrees electronic servo self-leveling		±11 minutes	±5 degrees electronic servo self-leveling		
Power source	4 x D-cell NiMH standard, Alkaline backup			2 × D-cell Alkaline batteries	4 x D-cell NiMH standard, Alkaline backup	
Battery life	90 hrs Alkaline, 45 hrs NiMH	50 hrs NiMH	175 hrs Alkaline, 100 hrs NiMH,	50 hrs Alkaline	45 hrs NiMH	35 hrs NiHM
Water res.	Yes, IP66		Yes, IP54		Yes, IP66	Yes, IP66
Size L × W × H	10.7L x 7.7W x 7.9W in (27.2: x 19.7W x 20.1H cm)	11.02 x 7.09 x 9.45 in (28 x 18 x 24 cm)	10.8 × 7.5 × 7.5 in (27 × 19 × 19 cm)	8.5 × 6.7 × 6.0 in (22 x 17 x 15 cm)	11.02 x 7.09 x 9.45 in (28 x 18 x 24 cm)	11.02 x 7.09 x 9.45 in (28 x 18 x 24 cm)
Weight	6.8 lbs (3.1 kg)	7.7 lbs (3.49 kg)	8 lb (3.6 kg)	3.3 lb (1.5 kg)	7.7 lb (3.49 kg)	

	Laser Display Receivers			
	LR20	LR30 (W)	LR50 (W)	LR60 (W)
Number of Display Channels	5-Channel Display		5-Channel Display 6-Channel Display in excavating mode	7-Channel Display 8-Channel Display in excavating mode
Accuracy: Center On-Grade mode (Grading)	Fine: 0.20 in (5 mm) Standard: 0.40 in (10 mm) Wide: 0.80 in (20 mm)	Fine: 0.20 in (5 mm) Standard: 0.45 in (12 mm) Wide: 1.25 in (32 mm)	Fine: 0.20 in (5 mm) Standard: 0.40 in (10 mm) Wide: 0.80 in (20 mm)	Setup: 0.20 in (5 mm) Fine: 0.40 in (10 mm) Standard: 0.80 in (20 mm) Wide: 1.6 in (40 mm)
Accuracy: Offset On-Grade mode (Excavating)	Fine: 0.50 in (12 mm) Standard: 1.0 in (25 mm) Wide: 2.0 in (50 mm)	NA	Fine: 0.50 in (12 mm) Standard: 1.0 in (25 mm) Wide: 2.0 in (50 mm)	Setup: 0.25 in (6 mm) Fine: 0.50 in (12 mm) Standard: 1.0 in (25 mm) Wide: 2.0 in (50 mm)
ACE—Angle Compensation Mode	NA			Fine: 0.50 in (12 mm) Standard: 1.0 in (25 mm)
Blade-Tilt Accuracy	NA		± 0.5°, ± 1.5°, ± 2.5°	N/A
Plumb-Swing Accuracy	± 0.5°, ± 1.5°, ± 2.5°	NA	± 0.5°, ± 1.5°, ± 2.5°	Standard: 0.5 in (12 mm) Angle Compensation Mode: 1.0 in (25 mm)
Beam Reception	360 Degrees			
Vertical Reception	8 in (203.2 mm)	6.75 in (171 mm)		8.75 in (222 mm)
LED Battery Life Alkaline Bright / Dim NiMH Bright / Dim	35 hrs	50 hrs / 75 hrs 40 hrs / 50 hrs	45 hrs / 60 hrs 30 hrs / 45 hrs	45 hrs / 75 hrs 40 hrs / 50 hrs
Battery Recharge Time	3-4 hrs			
Size	9.5 x 4.38 x 1.85 in (24.1 x 11.1 x 4.7 cm)	13.5 x 5.6 x 5.9 in (34.3 x 14.2 x 14.9 cm)	13.5 x 5.6 x 5.9 in (34.3 x 14.2 x 14.9 cm)	15.5 x 5.6 x 5.9 in (39.4 x 14.2 x 14.9 cm)
Weight	2.5 lb (1.13 kg)	5.5 lb (2.5 kg)		6.0 lb (2.7 kg)
Receiver Warranty	2 Years			

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Grade & Universal Lasers

	GL412N / GL1425C		GL622N	UL633N
Accuracy	1/16 in at 100 ft, 1.5 mm at 30 m (10 arc seconds)			
Laser type / classification	639 nm, Class 2		639 nm, Class 2, 3 mW	650 nm, Class 3A/3R, <5mW
Operating diameter	2600 ft (800 m)			
Self-leveling range	±5 degrees electronic servo self-leveling		±14 degrees electronic servo self-leveling	
Grade range	-10 to +15%	±15%	-25 to +25%	-25 to +25% X, Y, Z axis
	Single	Dual	Dual	
Power source	4 x D-cell NiMH battery pack			
Battery life	35 / 45 hrs NiMH		35 hrs NiMH	
Rotation speed	300, 600 rpm	300, 600, 900 rpm	300, 600, 750 rpm	0 - 750 rpm
Water resistant	Yes, IP66			
Size L × W × H	10.7×7.7×7.9 in (27×20×20 cm)	11×7.1×9.5 in (28×18×24 cm)	9.4 x 5.9 x 11 in (24 x 15 x 28 cm)	
Weight	6.8 lbs (3.1 kg)	7.7 lbs (3.5 kg)	6.8 lbs (3.1 kg)	
Warranty	5 Years		5 Years	5 Years
Wireless Remote Specifications				
Remote control type 2-way communication	RC1402		RC602N	RC603N
Battery life	130 hrs continuous			
Range	330 ft (100 m)		490 ft (150 m)	

Pipe Lasers

	DG813	DG613/DG613G
Grade range	-12% to +40%	
Self-leveling range	Complete grade range (no rough leveling required) also automatic compensated in the cross axis	
Line range	20° ±1°	
Line center	Yes	
Menu with variable settings	Yes	
Line set/check / Line alert	Yes	
Accuracy	± 1/16 in @ 100 ft, (1.5 mm/30 m); 10"	
Temperature compensation	Yes	
Operating range	500 ft (150 m)	
Spot Align, Spot Match, Spot Lok, Spot Search with SF803	Yes	No
ST802/ST805 Transporter	Yes	No
Color of Laser Beam	Red	DG613 - Red DG613G - Green
Waterproof	IP68 - Continuous submersion at 10 ft (3 m)	
Laser classification / output	3A/3R / 4.5–5 mW, optional 2 / <1 mW	
Weight	8.8 lb (3.98 kg)	
Length x Diameter	9.8 in (25 cm) x 5.3 in (13,5 cm)	
Battery type and life	NiMH / 40 hrs (DG613G: 30 hrs) with daily setup at 20° C	
Battery pack	Sealed (NiMH), Sealed removable (alkaline)	
Warranty	5 Years	
Wireless remote specifications		
Functionality	RC803 -Radio-/IR-Remote Control offers all Laserfunctions	
Through the pipe range	500 ft (150 m)	
Front / Over the top range	425 ft (130 m)	

Laser Tools

	LP51	LP51G	LT20XG	LT180G	LT360G
Self-level range	±4° from level			±3° from level	
Working range - Visible	100 ft (30 m)	115 ft (35 m)	115 ft (35 m)	115 ft (35 m) Lines 230 ft (70 m) Points	115 ft (35 m)
With HR1220 detector	N/A		260 ft (80 m)		
Accuracy	± 1/8 in @ 30 ft (3 mm @ 10 m)				
Battery type	2 x AA		4 x AA	Lithium-Ion	
Battery life	20 hrs	10 hrs	14 hrs	8 hrs	
Dimensions	3.54 x 4.09 x 2.40 in 90 x 104 x 61 mm		4.72 x 2.36 x 4.72 in 120 x 60 x 120 mm	4.75 x 2.75 x 4.25 in 121 x 70 x 109 mm	5.7 x 3.5 x 6.3 in 145 x 89 x 160 mm
Weight	0.69 lb (0.31 kg)		1.6 lb (0.6 kg)	1.4 lb. (0.7 kg)	2.2 lb. (1.0 kg)
Warranty	2 Years with instant exchange				

HR / HL Laser Receivers

	HR1220	HL450	HL700	HL760 / HL760U
Working Radius *Laser Dependent*	3 - 250 ft (1 - 80 m)	3 - 650 ft (1 - 200 m)	3 - 1500 ft (1 - 460 m)	3 - 1500 ft (1 - 460 m)
Laser Detection Height	3 in (80 mm)	4 in (102 mm)	5 in (127 mm)	5 in (127 mm)
Radio Working Radius	N/A	N/A	N/A	720 ft (220 m)
Accuracy Range (Deadband)	1/16 - 1/8 in (1 - 2 mm)	1/64 - 1/4 in (0.5 - 10 mm)	1/64 - 1/2 in (0.5 - 10 mm)	1/64 - 1/2 in (0.5 - 10 mm)
Accuracy Settings	2	3	6	6
LED Grade Indicators	N/A	N/A	Green - On Grade Red - High Blue - Low	Green - On Grade Red - High Blue - Low
Power Supply	2 x AA Alkaline	2 x AA Alkaline	2 x AA Alkaline	2 x AA Alkaline
Battery Life	40+ hrs	60+ hrs	60+ hrs	60+ hrs
Auto Shut Off	30 min	30 min - 24 hr	30 min - 24 hr	24 hr
IP Rating	IP66	IP67	IP67	IP67
Warranty	3 Years	3 Years	3 Years	3 Years

GL700 Series Lasers

Model	GL710	GL720	GL722
Servo Deadband Accuracy	3/64 in at 100 ft, 1.2 mm @ 30 m, (8 arc seconds)		
Range (Diameter)	3,000 ft (900 m)		
Axis Grade Range X	NA	-10 to +10%	-10 to +10%
Axis Grade Y	-0.5 to +25%		
Grade Resolution	0.001%		
Power Source	NiMH 6 x D cell		
Battery Life	30 hrs		
Rotation Speeds	300, 600, 900 rpm		
Radio Remote	No	No	Yes
Auto Axis Alignment	No	No	Yes
Grade Match Mode	No	No	Yes
Water Resistant	Completely sealed and waterproof		
Size L x W x H	7.75 x 10.0 x 11.75 in (20 x 25 x 30 cm)		
Weight	18.5 lb (8.4 kg)		
	Wireless Remote Specifications		
General	Radio Type, 2.4 gHz digital, encrypted to each laser		
Operating Range	750 ft (225 m) general operation		500 ft (150 m) automatic alignment
Battery Life	100 hrs		
Warranty	2 Years		

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Automatic Levels

	AL20M	AL24A	AL24M	AL28M	AL32A
Magnification	20×	24×		28x	32x
Accuracy	±2.5 mm*	±2.0 mm*		±1.5 mm*	±1.0 mm*
Aperture	30 mm				
Shortest focus	0.6 m				
Compensator dampening	Magnetic	Air	Magnetic	Magnetic	Air
Warranty	2 Year instant exchange				

*Note: Standard deviation according to DIN 18723 on one kilometer of double leveling

DET-2

Telescope		Optical Plummet		Angle Measuring System		Vials		Button Functions		Other Specs	
Image	Erect	Image	Erect	Minimum reading	1″ or 5″	Tubular	30″/2 mm	ON / OFF	Power	Dust/Water	IP-54
Mag.	30X	Mag.	3X	Precision	2″	Circular	8′/2 mm	R	Backlight / Illumination on / off	Operating temperature	–20°C to +50°C
Aperture	45 mm	Angle of view	5°	Units	Deg / mil / gon / V%			HOLD	Angle hold	Size - instrument	164 x 154 x 340 mm
Focus distance	1.45 m to ∞	Focusing range	0.5 m ~ ∞	Display	Dual, Large Character LCD tilt sensor			R/L	Clockwise / Counterclock-wise measurement	Weight - instrument	4.5 kg
Field of view	1° 30′	Reticle type	Crosshair	Auto compensation	User Set On / Off ±3′ Range			0SET	Zero reset of horizontal angle	Warranty	2 Year
Stadia Ratio / constant	100 / 0							V%	Convert vertical degrees to %		

QM Series Quick Measure Lasers

Specification	QM10	QM20
Range	30 m (100 ft)	50 m (165 ft)
Accuracy	± 2.0 mm (± 1/12 in)	
Units of measure	m, ft, in, ft-in	
Automatic shut off	10 minutes	
Battery life	5000+ measures 2 x AAA 1.5V	
Power supply		
Drop performance	NA	
Dust & Water resistance	IP40	
Laser type / power	620-690nm visible red / < 1 mW	
Dimensions	43 x 24 x 110 mm (1.7 x 0.9 x 4.3 in)	48 x 24 x 116 mm (1.9 x 0.9 x 4.6 in)
Weight with batteries	74 g (2.6 oz)	79 g (2.8 oz)
Warranty	1 Year	

Spectra Precision Laser Applications

	Laser Pointers - LP51 - LP51G - LT180G	Line Generator - LT180G - LT20XG - LT360G	Handheld Distance Measuring Device - QM10 - QM20	Laser Levels - LL300N - LL500 - LL1505C Optical Levels - AL20 - AL24 - AL28 - AL32	Horizontal Vertical Lasers - HV101 - HV1305C - HV1305GC	Grade & Universal Lasers - GL412N - GL1425C - GL622N - GL622IR - GL710 - GL720 - GL722 - UL633N
General Construction						
Forms, footings and foundations				O	O	O
Septic tank or swimming pools, decks and terraces		O		O	O	O
Estimating cut and fill				O	O	O
Checking building square and area		O	O		O	O
Matching existing slopes and grades				O	O	O
Checking elevations				O	O	O
Checking elevations of sub-base and sub-grade				O	O	O
Checking and setting elevations for sports fields, steep slopes, ramps, and drainage						O
Vertical alignment and plumb such as anchor bolt and form alignment		O			O	O
Interior						
Locating finished floor levels		O		O	O	
Laying out interior walls	O	O			O	
Installing ceiling grids	O	O			O	
Short-run vertical alignment		O			O	
Squaring and layout of partitions, walls and tile floors	O	O			O	
Plumb reference and point transfers from below to above, such as walls, door frames, and lighting locations measured from the floor layout to ceiling	O	O			O	
Level reference used for leveling cabinets, counter tops, windows, decks ceilings and chair rails	O	O			O	
Measuring distances, depths and heights			O			

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