

SPECTRA
PRECISION

Construction Distributor Catalog



Technology for Precision Measurements

LASER LEVELS • GRADE LASERS • INTERIOR LASERS • PIPE LASERS
MACHINE RECEIVERS • LASER RECEIVERS • OPTICAL INSTRUMENTS

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INTRODUCTION



For more than 50 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 we can find 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.

Work Anywhere and Everywhere

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.



2021



LL500

The original Electronic Self-Leveling Laser was introduced 40 years ago, in 1981.

The LL500 is still one of the most trusted lasers used today.

2023



GL1425C

Automatic Dual Grade laser with Bluetooth built-in to take advantage of the dedicated Laser Remote App.

Does three jobs: Level, Dual Grade, and Vertical.

2016



DG613-DG813

Compact, tough and smart pipe lasers

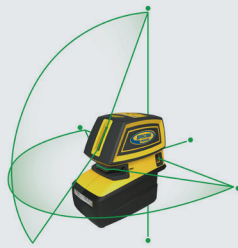
2017



GL612N-GL622N

Versatile Automatic Single and Dual Grade Laser for Level, Grade, and Vertical Alignment

2018



LT52G

Green Beam family of laser tools using bright Ultra-Green laser beams

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

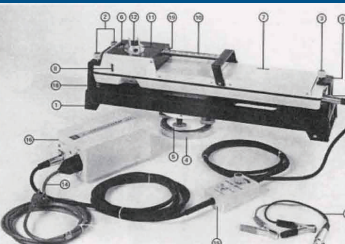
1965



Dayton, Ohio

location of the invention of the 1st rotating laser in the world

1973



Rotolite

1st rotating laser for interior work

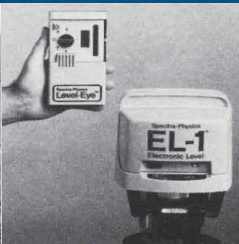
1976



945U

1st electronic automatic self-leveling rotating laser with slope adjustment

1981



EL-1

1st electronic automatic self-leveling rotating laser level with a laser diode... still produced.

1984



Pipemaster

1st pipe laser with internal battery and infrared remote control

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 Setting Out
- Plumb

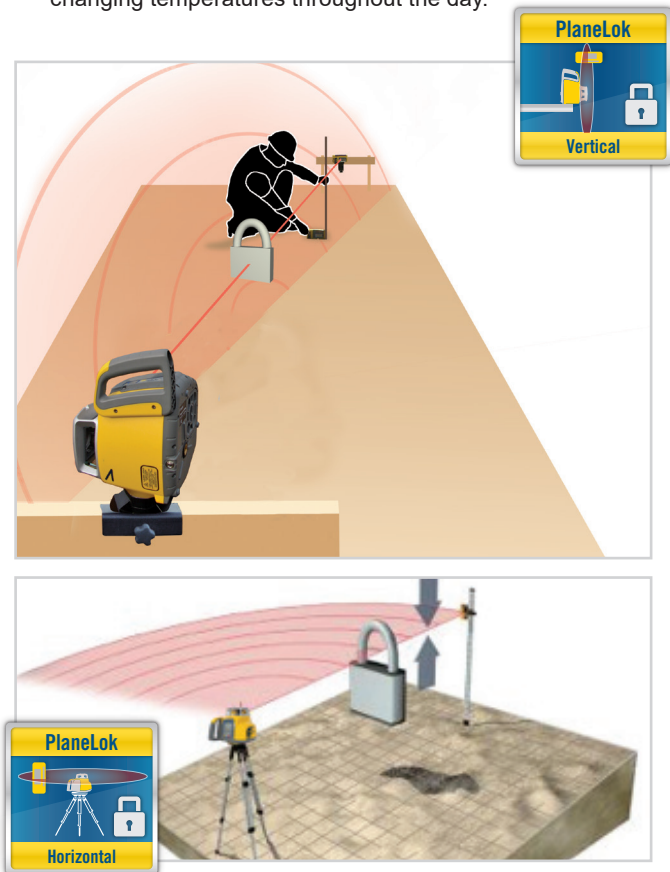
Some lasers have only one of the features and some have all.



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.

- **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.

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 be able 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?

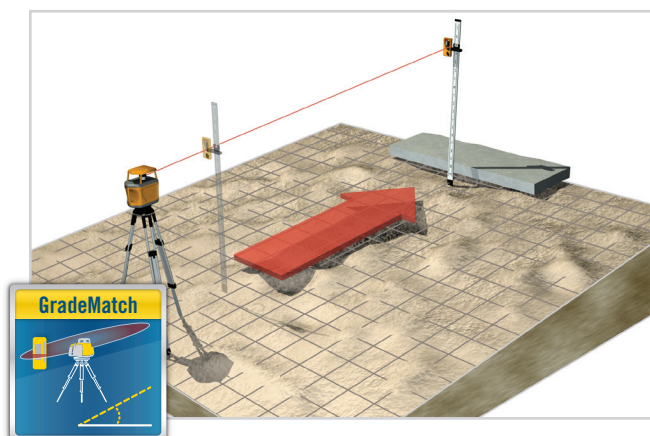
Yes. Several lasers are designed for this application and are self-leveling in the vertical axis. All HV, GL400, GL600 and UL models are designed to be used in the vertical axis. Applications include form work, foundations, 90° reference, fencing, facades and wall layout. The laser can replace the string 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?

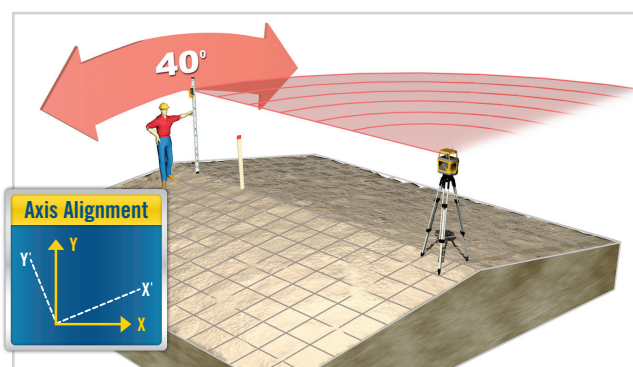
Grade Matching allows a user to match the fall of the ground or between two existing elevations without complex calculations.

- **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 axis 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 by 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?

The Spectra Precision Digital Read-Out receivers have a patented design that delivers consistent accuracy over the entire operating range combined with jobsite durability. The receiver is the one part of the system that receives the most punishment and needs to withstand jobsite abuse such as being dropped or getting wet. With the digital readout models (which have the prefix HL) you do not even need to get the receiver to the on-grade position because it simply displays how far from on-grade you are - allowing you to work faster and more accurately. Readouts can be changed between metric and English units. Be careful to really understand the difference between a Spectra Precision Digital Read-Out receiver and other brands as this could lead to unnecessary errors and additional cost. Not only are these receivers tough and accurate but when used with certain models of laser within the Spectra Precision range they also provide advanced functionality such as automatic grade matching, PlaneLok and axis alignment.



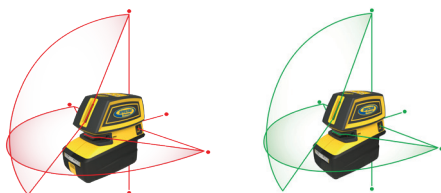
9. Can a laser be knocked over or dropped?

Spectra Precision lasers are designed to be used on the jobsite where they may get knocked over or dropped. If a laser has the "Shockproof" icon it can be dropped 1m onto concrete or withstand a 1.5m pushover on a tripod. What does this mean in real terms? While we can't guarantee that the laser's calibration will not be changed we do guarantee that the most expensive internal components will still work – reducing the lifetime running cost of the laser.



10. Green Beams vs. Red Beams

Spectra Precision manufactures both red beam and green beam rotating lasers, pipe lasers, laser pointers and line lasers. Green beams are up to four times brighter to the human eye and are ideal for brighter conditions. Red beam lasers offer a lower initial price and typically have longer battery life.



11. Laser Remote App

The Laser Remote App easily controls all laser functions typically controlled by the laser's remote control. It is available for iOS and Android smart devices. It works directly with the GL1425C. When used with the ST805 Signal Transporter, the Laser Remote App connects to the following lasers:

LL300S, HV302, HV302G, GL412N, GL612N, GL622N, GL622IR, UL633N, DG613, DG613G and DG813.



12. Increase Radio Range Coverage

The ST805 Signal Transporters extend the radio range of compatible lasers by up to two times the normal range. This reduces the need for multiple set-ups when working over longer distances and provides the contractor with more control, especially when carrying out alignments. It is placed between the laser and the remote control or receiver. Once paired with the laser, the Transporter will re-broadcast the radio signal, almost doubling the range of the current RC402N, RC602N, RC603N and RC803 remote controls.



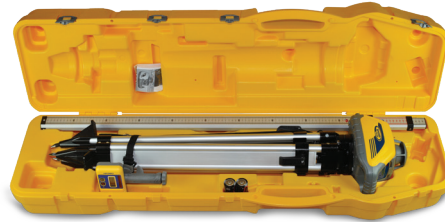
13. Accessories

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](#) accessories division has accessories to meet all your construction and geospatial needs.



LASER LEVELS

LL100N Affordable, Easy-to-Use Laser Level



System Case



Key Features and Benefits

- When system case configuration purchased - includes LL100N laser, HR320 receiver, C59 receiver clamp, tripod and choice of grade rod - a complete leveling crew in case
- Easy to transport, easy to store, easy to use
- Fully automatic self-leveling rotating laser provides fast and accurate setup
- Robust design withstands a 3 ft (1 m) tripod tip over and still remains functional, reducing costs for downtime or repair
- 2 Year No-Downtime warranty keeps productivity high and operating costs low
- One-person elevation control up to a 1,150 ft (350 m) diameter
- Optional RC601 remote control allows easy grade matching using the remote control from rod position

Applications

- Checking/setting elevations, concrete forms, footings, and foundations for smaller job sites
- Ideal for patio decks, terraces, swimming pools, septic systems, and leach fields
- Estimating cut and fill

Part No.	Receiver / Clamp	Rod	Tripod	Case
LL100N	HR320 / C59	No	No	Small Case 1282-1970
LL100N-3	HR320 / C59	GR153 Metric (4.7 m)	Q104025	System Case 1282-1981
LL100N-5	HR320 / C59	69188 Cut/Fill	Q104025	System Case 1282-1981

All part numbers include LL100N laser transmitter. Laser is powered by 2 x D Alkaline batteries.





LL300N

Medium-Range, Highly Accurate Leveling Solution



Key Features and 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 severe drops of up to 3 ft (1 m) directly onto concrete, or up to 5 ft (1.5 m) when pushed over on a tripod means less downtime and cost due to damage caused by an accidental drop or tip-over
- Comes with a choice of HL450 or HR320 receivers allowing you to choose the best option to suit your application

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	Power	Rod	Tripod	Remote	Case
LL300N	HL450 / C45	4 D Alkaline	No	No	No	Small Case
LL300N-4	HL450 / C45	Rechargeable*	No	No	No	Small Case
LL300N-5	HL450 / C45	Rechargeable*	69188 Cut/Fill Rod	Q104025	RC601	System Case
LL300N-6	HL450 / C45	Rechargeable*	GR153 Metric	Q104025	RC601	System Case
LL300N-8EU	HR320 / C59	Rechargeable*	No	No	No	Small Case
LL300N-BCC	No	Rechargeable*	No	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.



LASER LEVELS

LL300S Medium-Range, Highly Accurate Leveling Solution



Key Features and Benefits

- Available in system case with receiver, tripod and choice of grade rod
- 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 RC402N/RC1402 remote control allows easy grade matching using the remote control from rod position (included with LL300S-47)
- 2,600 ft (800 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 severe drops of up to 3 ft (1 m) directly onto concrete, or up to 5 ft (1.5 m) when pushed over on a tripod means less downtime and cost due to damage caused by an accidental drop or tip-over
- Comes with a choice of HL450 or HL760. Fingerprinting function can be used when used in conjunction with HL760 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
LL300S-4	HL450 / C45	No	Rechargeable*	No	No	Small Case
LL300S-5	HL760 / C70	No	Rechargeable*	69188 Cut/Fill	Q104025	System Case
LL300S-7	HL760 / C70	No	4 D Alkaline	No	No	Small Case
LL300S-47	HL760 / C70	RC402N	Rechargeable*	No	No	Small Case
LL300S-BCC	No	No	Rechargeable*	No	No	Small Case

All part numbers include LL300S transmitter. *Rechargeable comes with Q104234 NiMH battery pack and 95720-00 charger. Small case PN 5289-0025. System case PN 5289-0027.





LL500

Longest Range, Highly Accurate Leveling Solution



Key Features and 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
LL500-4	HL700 / C70	NiMH*	No	No	Small Case

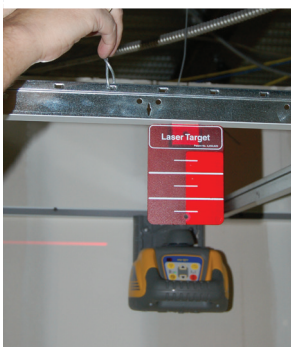
All part numbers include LL500 transmitter and 1046-4750S case.
*Q103077 NiMH batteries and 95720-00 charger.



HORIZONTAL & VERTICAL LASERS

HV101

Economical Solution for Leveling, Aligning, and Plumb Applications



Key Features and Benefits

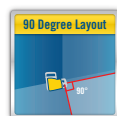
- Fully automatic self-leveling in both horizontal and vertical provides fast, accurate setup
- Robust design withstands a 3 ft (1m) drop on concrete and still remains functional, reducing costs for downtime or repair
- Multiple scanning angles and rotation speeds to match various conditions
- Complete GC packages include everything you need for both interior and exterior work in a convenient system case
- Rotor cage can be removed for exact beam spotting
- Simple controls allow operators to carry out many functions with "one-touch" commands
- Included Remote Control offers scanning, rotation speed, slope settings, and alignment control for fast one man set-ups
- 2 year "over-the-counter" exchange warranty program eliminates downtime

Applications

- Leveling of ceiling grids
- Installation of interior fittings (cabinets, lighting etc.)
- Transferring points from the floor to the ceiling
- Short range leveling for decks and patios

Part No.	Receiver / Clamp	Grade Rod	Tripod	Wall Mount	Remote	Case
HV101	No	No	No	M101	RC601	Small Case
HV101-4	HR150U / C61	No	No	M101	RC601	Small Case
HV101-GC-Pack	HR320 / C59	69188 Cut/Fill	69191	M101	RC601	System Case

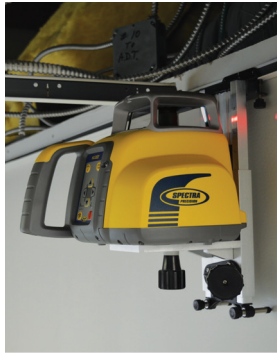
All part numbers include HV101 transmitter, 1176 ceiling target, Q100206 laser glasses, and 2 D Alkaline batteries.
Small Case PN 1282-1970. System Case PN 1282-1981.





HV302

General Purpose Construction Laser for Medium-range Interior and Exterior Applications



Key Features and Benefits

- The housing is rugged, lightweight and IP66 weatherproof making it easy for contractor carry and use in demanding jobsite conditions, reducing repair downtime
- Fully automatic self-leveling in both horizontal and vertical for fast, accurate setup in horizontal and vertical applications
- Single-axis manual slope mode with 'cross-axis' self-leveling allows grade matching for basic slope work, while maintaining accuracy in the cross-axis
- Automatic Grade Match and PlaneLok using RC402N and HL760
- Highly visible 3A/3R beam and superior scanning functions making it easier for interior layout and aligning over longer range job sites (visible diameter of 330 ft (100 m))
- Long-range remote control operation allows convenient access to key functions across the job site
- Flexible power options, including rechargeable battery pack, AC power and alkaline batteries, combined with low battery warnings, reduces downtime by having multiple power options

Applications

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

Part No.	Receiver / Clamp	Wall Mount	Ceiling Target	Remote	HL Vertical Adapter	Rod	Tripod	Case
HV302-1	No	M302	1176	RC402N	No	No	No	Small Case
HV302-4	HL760 / C70	No	No	RC402N	105516	No	No	Small Case
HV302-7	HL760 / C70	M302	1176	RC402N	105516	No	No	Small Case
HV302-GC-PACK-2EU	HL760 / C70	No	No	RC402N	105516	69188 Cut/Fill	Q104025	System Case
HV302-BCC	No	No	No	No	No	No	No	Small Case

All part numbers include HV302 transmitter and rechargeable pack with Q104234 NiMH pack and 95720-00 charger. Small Case PN 5289-0026. System Case PN 5289-0027.

Laser Class 2 packages are available. Add -LC2 to the end of the part number. For example, an HV302-1 package with a Class 2 laser would be Part No. HV302-1-LC2.



HORIZONTAL AND VERTICAL LASERS

HV302G Multipurpose Green Beam Construction Laser for Interior



Key Features and Benefits

- High visibility green beam is four times more visible than standard red beam lasers allowing work at longer distances and in brighter conditions
- Fully automatic self-leveling in both horizontal and vertical for fast, accurate setup in horizontal and vertical applications
- Increases productivity with fast set-ups, fewer mechanical parts, and automatic self-leveling
- Line scan and beam plunge feature for easy drywalls
- Rotor vial for easy and accurate vertical plumb set-up
- Preset adjustable rotation speed and scan line sizes to fulfill all interior application needs
- Minimizes power costs, increases reliability with choice of rechargeable or alkaline batteries
- Automatic Grade Match and PlaneLok using RC402N and HL760U

Applications

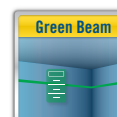
- Interior, light to medium commercial and residential construction
- Squaring/layout
- Leveling and aligning of interior walls
- Installation of ceilings and raised floors
- Interior finishing work
- Vertical alignment
- Plumb

Part No.	Receiver / Clamp	Wall Mount	Ceiling Target	Remote	HL Vertical Adapter	Power
HV302G-1	No	M302	Q104124	RC402N	No	Rechargeable*
HV302G-7	HL760U / C70	M302	Q104124	RC402N	105516	Rechargeable*
HV302G-1NR	No	M302	Q104124	No	NO	Rechargeable*

All part numbers include HV302G transmitter and Q104252 laser glasses and small case.
*Rechargeable pack includes Q104234 NiMH battery pack with 95720-00 charger

Laser Class 2 packages are available. Add -LC2 to the end of the part number.

For example, an HV302G-1 package with a Class 2 laser would be Part No. HV302G-1-LC2.



HR150U Receiver

Interior Receiver with Highly Visible LEDs and Built-in Magnetic Mount



Applications

- Interior and exterior leveling and aligning
- Soffit, curtain wall or glazing applications
- Ceiling grid and raised floor installations

Key Features and Benefits

- Features a 3-channel dual-sided LED with a green on-grade display that can be easily seen indoors or outdoors over long distances
- Built-in magnet and level bubble allows the receiver to mount to ceiling grid or drywall track without the need for additional accessories
- Marking notches on both sides to easily mark
- Can be used with any brand rotating red, green or IR laser
- Strong composite housing and optional lanyard offers protection against damage due to dropping
- The perfect entry level receiver for smaller job sites
- Includes C61 rod clamp



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 and 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
- 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
- Includes C20 rod clamp



HR320 Receiver

Tough Receiver for Exterior Leveling and Alignment Applications



Applications

- Measuring cut and fill for small site preparation
- Exterior leveling, aligning and marking
- Checking elevations

Key Features and Benefits

- Dual LCD's on front and rear are ideal for general exterior applications
- Two on-grade sensitivities (fine and coarse) allow getting to grade fast
- Snap-on rod clamp (included) allows quick attachment and removal
- Strong, IP67 waterproof housing protects the unit from dust, moisture, and accidental drops
- Loud 100 db loud speaker can easily be heard on the noisiest job sites. 3 adjustable speaker levels (loud, low, and off)
- Includes C59 rod clamp



DIGITAL LASER RECEIVERS

HL450 Digital Readout 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 and 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 and 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
- Three-year "No Excuses" warranty
- C70 Rod Clamp with Bubble Vial included

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 and 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 330 ft (100m) radius, high speed digital radio built inside that allows the receiver to communicate with any other HL760 / HL760U: LL300S, LL400HV, HV302, GL412N / GL1425C, GL612N/GL622N, UL633N 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
- HL760U can also accept infrared 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.
- 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.



COMBINATION LASER RECEIVERS

CR700 Digital Combination Receiver Machine or Rod Mounted

Key Features and 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 series grade lasers and the HV302 enabling the use of time saving functions such as Grade Match, Fingerprinting, PlanLok and Axis Alignment
- 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
- Backlight – Receiver can be viewed in the dark or low light conditions
- 3-Year Warranty – the best warranty on laser receivers



Includes C70 adapter with bubble vial

Includes C71 Magnetic Mount



CR600 Combination Receiver

Key Features and Benefits

- Provides high, low, or on-grade information for all your grading and excavation applications up to 1,500 ft (460 m) radius
- In addition rod-mounted capabilities, the CR600 includes a C51 magnetic mount to be used as a machine mounted receiver in a wide range of jobsite applications
- Magnesium housing is rugged but lightweight
- Super-bright LED display can be easily seen by a machine operator in brightly lit conditions
- 270° reception for easy visibility of on-grade beam
- Five on-grade sensitivities to customize need to application
- Can be used with any brand rotating red laser
- Line alert mode for long range vertical alignment



Includes C50 adapter with bubble vial

Includes C51 Magnetic Mount



GL412N/GL1425C Single and Dual Grade Lasers with Vertical Alignment



GL412N

GL1425C



Key Features and Benefits

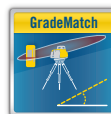
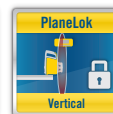
- GL412N / GL1425C are grade plus horizontal and vertical lasers. Simple, accurate dial in grade from -10% to +15% GL412N; ±15% GL1425C (Single GL412N, Dual GL1425C)
- Up to 2,600 ft (800 m) working diameter which increases productivity by reducing need for multiple set-ups on a large job site
- Fast setup, minimal training and automatic self-leveling minimize operating costs and boost productivity
- Highly rugged design and lighthouse seal protect the rotor head and glass and offers superior drop and weather protection for reduced downtime
- 2-way full function remote control allows grade changes to be made from anywhere on the jobsite
- Temperature calibrated for high accuracy over wide temperature changes
- GL1425C has Bluetooth built-in to work with the Laser Remote App
- Customizable with choice of HL760 or CR700 receivers
- Mask mode eliminates interference from other crews on the jobsite
- Automatic Grade Match 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	RC402N	No	No	Small Case 5289-0025
GL412N-14	Single	CR700	C70 Rod Clamp / C71 Magnetic Mount	105516	RC402N	No	No	Small Case 5289-0025
GL412N-BCC	Single	No	No	No	No	No	No	Small Case 5289-0025
GL1425C	Dual	HL760	C70 Rod Clamp	105516	RC1402	No	No	Small Case 128994-00
GL1425C-BCC	Dual	No	No	No	No	No	No	Small Case 128994-00

GL412N includes transmitter, Q104234 NiMH rechargeable battery pack and 95720-00 charger.
GL1425C includes transmitter, B10 NiMH rechargeable battery pack and CH10 charger.



GRADE LASERS

GL612N / GL622N / GL622IR

Versatile Automatic Single and Dual Grade Laser for Level, Grade, and Vertical Alignment



RC602N Remote Control

Key Features and Benefits

- GL612N / GL622N are grade lasers with a compensated grade range of -25% to +25%. Vertical and horizontal set-ups are also compensated
- Quick set-ups 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
- Very rugged with low service costs; takes a 3 ft (1 m) drop on concrete
- Mask mode eliminates interference with other crews on the jobsite
- Automatic Axis Alignment (GL622N only) is easy to setup for increased accuracy
- Radio communication between the laser and HL760 digital receiver allow advanced features and remote display capabilities
- Long operating radio range - 490 ft (150 m)
- Grade Match 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

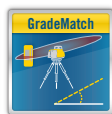
- Leveling concrete forms and footers
- General construction vertical alignment and plumb such as anchor bolt and form alignment
- "Over the top" sewer and storm drain pipe installations
- Driveways and ramps
- Grading and excavating

HL760 Applications

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

Part No.	Grade	Receiver	Clamp	HL Vertical Adapter	Remote
GL612N	Single	HL760	C70 Rod Clamp	105516	RC602N
GL622N	Dual	HL760	C70 Rod Clamp	105516	RC602N
GL622-BCC	Dual	No	No	No	No
GL622IR	Dual	HL760	C70 Rod Clamp	No	RC602N

All part numbers include GL612N, GL622N or GL622IR transmitter, Q104667 NiMH rechargeable battery pack, CH10 charger and 5289-0670 small carrying case.



GRADE LASERS

SPECTRA
PRECISION

GL720, GL722

High Precision, Extra Long Range Grade Lasers



RC703 Remote Control

GL722

Key Features and 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 5 arc second servo deadband accuracy for demanding high accuracy requirements

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 Axis Alignment and Grade Match capability. Ideal for general construction, site preparation and road construction.
- The GL722IR is a Class 1 laser. This type of infrared beam is required in special applications where a visible beam is a safety hazard, distracting or otherwise not permissible.

Applications

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



Part No.	Grade	Receiver	Clamp	Remote
GL720	Dual	HL700	C70 Adapter	No
GL720-BCC	Dual	No	No	No
GL722*	Dual	CR600	C50 Adapter and C51 Mag. Mount	RC703
GL722-BCR	Dual	No	No	RC703
GL722IR	Dual	CR600	C50 Adapter and C51 Mag. Mount	RC703

All part numbers include transmitter, 1445-2900 NiMH rechargeable batteries, 1445-2093 charger, and 1445-0860S case.

*GL722 configurations: -DE, -FR, -NL



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Universal Laser UL633N

The Most Versatile Construction Laser, Ever



RC603N Remote Control



Key Features and Benefits

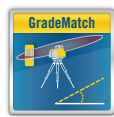
- Full control for horizontal level, single or dual grade, vertical alignments or setting out 90° angles- providing the ability to do so much more from one single laser
- Long operating radio range - 490 ft (150 m)
- High precision alignment for grades – align automatically to your grade hub for accurate 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





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 and 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



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

All part numbers include receiver, 991604-99 charger, 66577-99 charger adapter and 1211-3000 small case



MMM Magnetic Mount

LR30 & LR30W Receiver

Used on Dozers, Box Blades, Levelers



Applications

- Machine mounted grade checking
- Grading and leveling

Key Features and 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
- Super bright LEDs with green “on-grade” indicator - east to see in all lighting conditions
- 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	Remote Display
LR30	NiMH	No

Part No.	Batteries	Remote Display
LR30W	NiMH	RD20

All part numbers include receiver, 010562-99 NiMH rechargeable batteries, 991604-99 charger, 010542-99 charger adapter and 010536-99 carrying case

MACHINE DISPLAY RECEIVERS

LR50 & LR50W Receiver

Blade Tilt and Plumb Indicator



Applications

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

Key Features and 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	Remote Display
LR50	NiMH	No

Part No.	Batteries	Remote Display
LR50W	NiMH	RD20

All part numbers include receiver, 010562-99 NiMH rechargeable batteries, 991604-99 charger, 010542-99 charger adapter and 010536-99 carrying case

LR60 & LR60W Receiver

Angle Compensation for Excavation



Applications

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

Key Features and 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 – 2 year warranty

Part No.	Batteries	Remote Display
LR60	NiMH	No

Part No.	Batteries	Remote Display
LR60W	NiMH	RD20

All part numbers include receiver, 010562-99 NiMH rechargeable batteries, 991604-99 charger, 010542-99 charger adapter and 010536-99 carrying case



Receiver Accessories

Wireless Remote Display and 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, RD20 Swivel (Optional)
024015	Cable, LR Power, 7.6 m (25 ft)
MM-1	Magnetic Mount for LR Receivers
DM-20	Bulldozer Bolt-On Mount
AT1991364-02	Dozer Magnetic Mount DMM-2
MMM	Magnetic Mount for LR20



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

DMM-2 Dozer Mast Mount










- Designed to work on bulldozers with flat back blades
- Magnets are adjustable, can be positioned for quick installation and set-up
- DM-20 mount should be used for hardpan or excessive vibration applications
- Part No. AT1991364-02

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.

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 or LR50 or LR50W (w/remote display)	Excavating
Skid-steer w/blade 	Use LR30 or LR50 or LR30W/LR50W (w/remote display)	Grading
Smaller Dozer 	Use LR30 or LR50 or LR30W/LR50W (w/remote display)	Grading
Large Excavator 	Use LR60 or LR60W (w/remote display)	Excavating
Large Dozer 	Use LR50 or LR50W (w/remote display)	Grading

DG613/DG613G DialGrade Compact and Powerful



Key Features and Benefits

- The DG613G has an ultra-bright green beam for excellent visibility in bright working conditions
- Green beams are 4X brighter to the human eye than red beams
- Reduced length to make it easier to fit in pipes around tighter invert
- 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 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) have flexible power options that provide 40 (30) hours operating time (NiMH batteries). 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

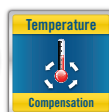
Applications for all Pipe Lasers

- 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-LC2)	DG613 Laser, 1248 centering plate (200mm), RC803 IR/Radio Remote Control, 956 target w/ 2 plates	NiMH Recharge
DG613G (DG613G-LC2)	DG613G Laser, 1248 centering plate (200mm), RC803 IR/Radio Remote Control, 956G target w/ 2 plates	NiMH Recharge

All part numbers include Q104667 NiMH battery pack, CH10 charger, and carrying case

LC2 packages with a Laser Class 2 are available





DG813 DialGrade

Small, Tough and Smart, Perfection in a Pipe



Key Features and Benefits

- Self levelling range of -12% to +40% over the entire grade range
- 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 pipe
- The 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 :
 - Spot Align – 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.
 - Spot Match – 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

Part No.	Components	Power
DG813 (DG813-LC2)	DG813 Laser, 1248 centering plate (200mm), RC803 IR/Radio Remote Control, SF803 Spot Finder w/P24 pole adapter & target plate, 956 target w/ 2 plates, ST805 Transporter	NiMH Recharge
All part numbers include Q104667 NiMH battery pack, CH10 charger, and carrying case		

LC2 packages with a Laser Class 2 are available



DG211

Compact and Tough



Key Features and Benefits

- Compact to fit in 100 mm (4 in) pipe
- Grade Range of -20% to +30%
- Level Accuracy 1.5 mm @ 30m
- Working range of 150 m (500 ft)
- Durable, Waterproof and Dustproof
- Long Li-Ion battery life with alkaline backup
- Remote Control for ease of operation
- Multiple leg set for various pipe diameters
- Roll Alert if pipe laser is moved beyond limit



Part No.	Components	Power
DG211 (DG211-LC2)	DG211 Laser, RC201 IR Remote Control, 946 target w/ 2 plates, 125 mm legs, CH11 worldwide charger, P11 Li-ion battery pack, 129603-00 carrying case	Li-ion Recharge

LC2 packages with a Laser Class 2 are available

Automatic Level Easy-to-use Optical Auto-levels



Air dampened model shown



Key Features and Benefits

- Choice of magnetic or air dampened automatic compensator
- 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
AL24M	24X / Magnetic	No	No
AL24M-3EU	24X / Magnetic	5301-27-BLK-SP	GR153

AL28M

Part No.	Power/Damp	Tripod	Rod
AL28M	28X / Magnetic	No	No
AL28M-G	28X / Magnetic	No	No

AL32A

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





DET-2 Construction Theodolite

Full Featured Digital Theodolite for Construction



Key Features and 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 set-ups 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

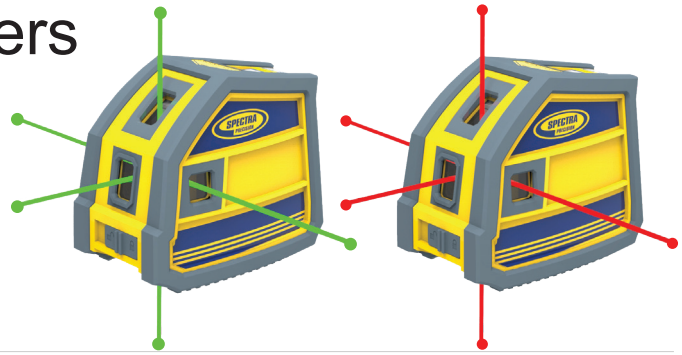
- Establishing 90 degree reference lines
- Checking angles, alignment, and plumb
- Anchor bolt alignment
- Gravity flow pipe laser setup
- Steel column placement
- Alignment of forms, tilt-up walls, and curtain walls
- Basic grade work
- Short range leveling

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



LP51 / LP51G Laser Pointers

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



Key Features and 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

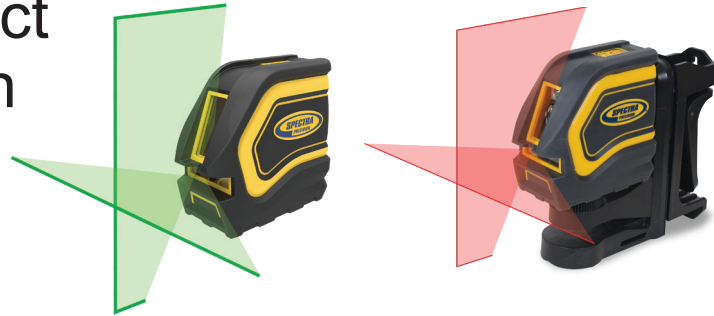
Part No.	Points	Bracket	Target	Case	Power
LP51	5	Magnetic 1213-0100	Red Ceiling/Floor 23416	Soft Pouch	2 x AA Alkaline
LP51G	5	Magnetic 1213-0100	Green Ceiling/Floor 1215-1560	Soft Pouch	2 x AA Alkaline





LT20 / LT20G Crossline Laser

Simple to Use — Perfect for Interior Construction



Key Features and Benefits

- Capable of handling interior horizontal, vertical or plumb positioning application
- Choice of high visibility green beam LT20G or economical red beam LT20
- Automatic self-leveling assures accuracy and fast setup
- 3 year instant exchange warranty minimizes downtime
- Water, mud, and shock resistant, able to withstand a 3-foot (1 meter) drop onto concrete... IP54 rated
- Included clamp for ceiling installation

Applications

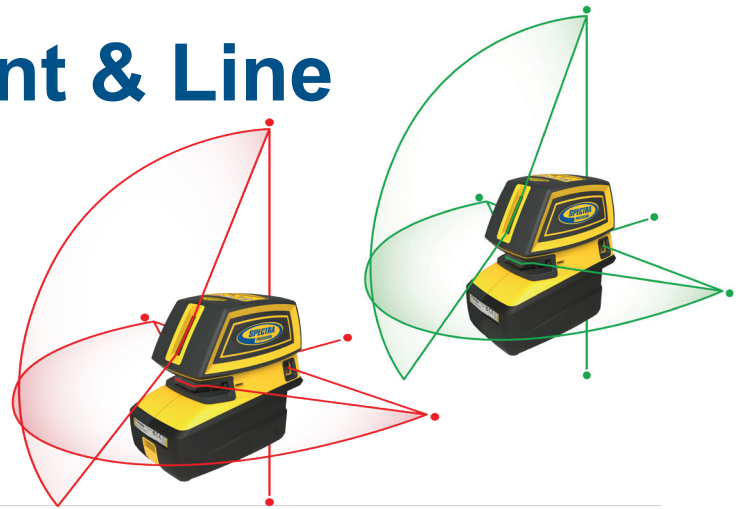
- Level, horizontal & vertical layout, square, & plumb
- Building, layout, & squaring of interior walls
- Acoustical ceiling installation (small rooms)
- Drywall track installation
- Cabinet & trim installation, finish carpentry

Part No.	Magnetic Mount / Ceiling Bracket	Target	Case	Power
LT20	1215-1110	Red Ceiling/Floor 23416	Soft Pouch	3 x AA Alkaline
LT20G	1215-1110	Green Ceiling/Floor 1215-1560	Soft Pouch	4 x AA Alkaline



LT52R / LT52G Point & Line Laser Tool

The Tool for All Trades



Key Features and Benefits

- Eliminates the need for contractors to purchase two tools by combining a 5-beam pointer and a crossline laser into one product
- Versatile tool does multiple jobs - set it up once and work plumb, level and square in the whole area
- Choice of green beams or red beams
- Automatic self-leveling assures accuracy and fast setup
- The industry's brightest crosslines and points for easy viewing in all conditions – points are visible up to 200 feet (60 m)
- Wide 210° horizontal line intersects side points; Vertical up beam intersects up point
- Down point clears floor track, no accessory required
- 3 year instant exchange warranty minimizes downtime
- Water, mud, and shock resistant, able to withstand a 3-foot (1-meter) drop onto concrete... IP54 rated
- New magnetic bracket can be attached to steel columns, wall studs or any steel surface
- HR1220 receiver can be added for exterior applications for maximum jobsite versatility

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

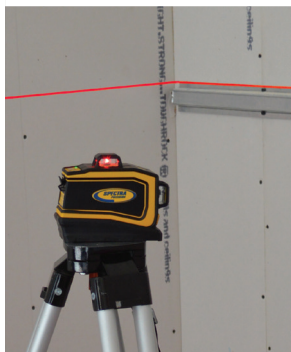
Part No.	Magnetic Bracket	Target	Case	Receiver / Clamp	Power
LT52R	M152	Red Ceiling/Floor 23416	Hard Case 1215-1741	No	Lithium-Ion, Charger 1215-1610
LT52G	M152	Green Ceiling/Floor 1215-1560	Hard Case 1215-1741	No	Lithium-Ion, Charger 1215-1610
LT52G-2	M152	Green Ceiling/Floor 1215-1560	Hard Case 1215-1741	HR1220 / C20	Lithium-Ion, Charger 1215-1610





LT56 Rugged Universal Laser Layout Tool

Simple to use – Perfect for Interior Construction



Key Features and Benefits

- Capable of handling interior horizontal, vertical or plumb positioning application
- Horizontal plane and 2 vertical planes provide a precise 90 degree layout grid with four cross line intersections
- Automatic self-leveling assures accuracy and fast setup
- One tool to use on every job every day. HR1220 receiver can be added for exterior applications for maximum jobsite versatility
- 3 year instant exchange warranty minimizes downtime
- Water, mud, and shock resistant, able to withstand a 3-foot (1 meter) drop onto concrete... IP54 rated

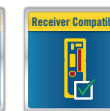
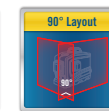
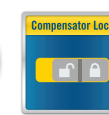
Applications

- 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

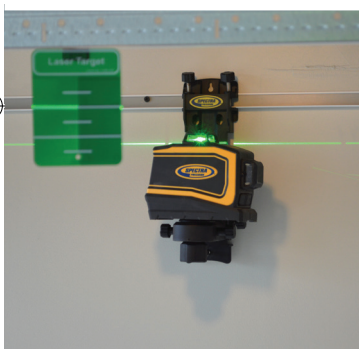
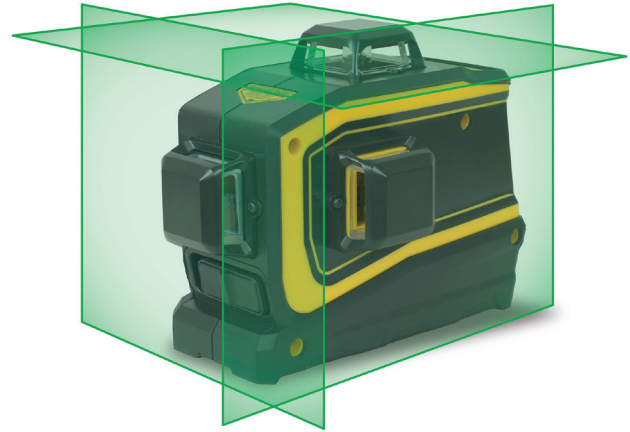
Part No.	Magnetic Bracket	Target	Case	Receiver / Clamp	Fine Alignment Plate	Batteries
LT56	1215-1650	Red Ceiling/ Floor 23416	Hard Case 1215-1641	No	No	Lithium-Ion, Charger 1215- 1310
LT56-2	1215-1650	Red Ceiling/ Floor 23416	Hard Case 1215-1641	HR1220 / C20	No	Lithium-Ion, Charger 1215- 1310
LT56-3	1215-1650	Red Ceiling/ Floor 23416	Hard Case 1215-1641	No	M156	Lithium-Ion, Charger 1215- 1310



LT56-2



LT58G Laser Tool The Go-To Interior Laser



Key Features and Benefits

- High visibility 360° green beam can be seen up to 100 ft (30m) and provides full room coverage with a single set up
- Compact and lightweight design allows easy and secure mounting at ceiling height
- 2 vertical beams spaced 90° apart for alignment and squaring
- Small compact hard case is easy to store on-site and easy to transport
- Universal mounting accessory fits all main ceiling track styles including shadow track
- Mounting accessory includes height adjustment, rotational fine adjustment and magnetic mounting for steel columns
- Laser has both camera tripod threads (1/4") and standard instrument threads (5/8 x 11)
- Simple Operation and set up – automatic self levelling, constant beam, no rotation

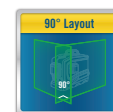
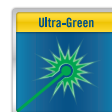
Applications

- Ceilings
- Level, horizontal and vertical layout, square & plumb
- Square and plumb of interior walls
- Drywall track layout and installation
- Cabinet and trim installation, finish carpentry
- The intersection of planes can be used for point transfer floor to ceiling, front to back and side to side

Part No.	Ceiling Bracket	Target	Case	Receiver / Clamp	Fine Alignment Plate	Batteries
LT58G	1215-1650	Green Ceiling/ Floor 1215-1560	Hard Case 1215-1641	No	No	Lithium-Ion, Charger 1215-1610
LT58G-2	1215-1650	Green Ceiling/ Floor 1215-1560	Hard Case 1215-1641	HR1220 / C20	No	Lithium-Ion, Charger 1215-1610
LT58G-3	1215-1650	Green Ceiling/ Floor 1215-1560	Hard Case 1215-1641	No	M156	Lithium-Ion, Charger 1215-1610



LT58G-2





QM Series Quick Measure Lasers Digital Distance Measuring



Key Features and 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

LASER ACCESSORIES

Accessories and Components for Rotating Lasers

Please visit www.spectraprecision.com for additional laser accessories

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, Small Carrying Case
- 128994-00 GL1425C Small Carrying Case
- 5289-0026 HV302, HV302G Small Carrying Case
- 5289-0027 LL300N, LL300S, HV302, HV302G System Carrying Case
- 5289-0670 UL633/GL6X2 Carrying Case
- 1046-4750S LL500 Carrying Case
- 1445-0860S GL7XX Carrying Case

Wall Mounts



M101 wall mount for HV101



M302 wall mount for HV320/HV302G

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
- RC402N Remote Control for LL300S, HV302, HV302G, GL4X2N
- RC1402 Remote Control for GL1425C, LL300S, HV302, HV302G, GL4X2N
- RC602N Remote Control for GL6X2N
- RC603N Remote Control for UL633N

Laser Glasses



Q100206 Red Laser Glasses
Q104252 Green Laser Glasses
Increases the visibility of the laser beam under bright light conditions

Targets



- 1176-6 Red 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



4852-16 Column Clamp



4852-17 Column Clamp



M401 Tilting Base



M156 Fine Alignment Plate for Laser Tools



Accessories and Components for Universal Laser



RC603N Combined Radio/IR Remote Control for all applications



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 (UL633N, GL612N, GL622N)

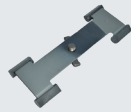
Included Pipe Laser Accessories



RC803 Remote



956 / 956G Optically Enhanced Target



1248 Centering Plate



Q104667 Rechargeable NiMH Pack, 10 Ah



CH10 Charger



Spot Finder SF803 (DG813)



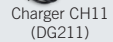
ST805 Transporter (DG813)



P11 Li-Ion Pack (DG211)



Target (DG211)



Charger CH11 (DG211)

Optional Pipe Laser Accessories



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



P26 Cable w/ Power Adapter Plug



1239 Extended Height Vertical Pole



P24 Pole Adapter for Spot Finder SF803



Heavy Duty Tripods

Applications

- Lasers
- Instruments

Key Features and Benefits

- Stable and accurate for most applications
- Choices of wood, aluminium 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
- Tri-Max is a surveying grade tripod with certified accuracy



Part No.	Material	Extension
1161	Wood	Extends from 96 cm to 160 cm
2161	Aluminum	Extends from 106 cm to 185 cm
2162	Aluminum	Elevating Base - Extends from 130 cm to 228 cm
69191	Aluminum	Adjustable Height Column - Extends from 87 cm to 127 cm
90553	Fiberglass	Tri-Max Survey Grade Dual Clamp, Extends to 180 cm)
5420-13-BLK	Wood	Twist locks, Extends to 1.83 m
5321-19-BLK	Wood	Elevating Base, Quick Clamp

Medium/Light Duty

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	Description/Packaged With
Q104025	Aluminum	LL100N, LL300S/N, HV101
5301-27-BLK-SP	Aluminum	AL Auto Level Kits
5301-25-BLK	Aluminum	Economy, Quick Clamp. Extends to 1.6 m
5301-00-BLK	Aluminum	Quick Clamp
5301-01-BLK	Aluminum	Quick Clamp
5321-20-BLK	Aluminum	Elevating Base, Quick Clamp
5401-21-BLK	Aluminum	Screw Clamp, Extends to 1.7 m

Specialty Tripods, Bipods

Key Features and Benefits

- Numerous special tripods and bipods are available.
- Rod bipod holds rectangular rods from 4 to 6.5 cm.
- Bipod for poles holds poles from 2.5 to 3.1 cm



Part No.	Material	Description
TR10	Aluminum	Laser Tool Mini Tripod, Extends to 1.4 m
5217-21-FLO	Aluminum	Bipod for rods, Extends to 1.8 m
5217-04-YEL	Aluminum	Bipod for poles, Extends to 1.8 m
5214-00	Aluminum	Alligator clamp tripod

ACCESSORIES - GRADE RODS

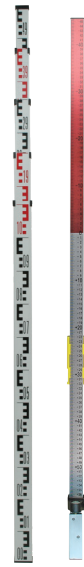
Aluminum Grade Rods

Applications

- Grading
- Leveling
- Sitework
- Landscaping
- Foundations

Key Features and Benefits

- Aluminium 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	Scale
GR153	4.7 m	'E' Pattern, Metric
69188	2.13 m	Metric Cut / Fill

Builders Grade Rods

Key Features and Benefits

- Cut/fill rod has sliding laser receiver bracket that works with all laser receivers using standard rod clamps
- Additional models available



7310-10

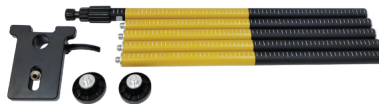
7341-51

Part No.	Length	Scale
7310-10	1.88 m	Metric Cut / Fill
7341-51	5 m	'E' Pattern, cm
7341-56	5 m	'E' Pattern, mm, UK

Specialty Items

Key Features and Benefits

- 7220-01 Adjustable laser tool platform, 5-section pole
- 5610-01 Tripod stabilizer



Part No.	Length	Description
7220-01	3.3 m	Adjustable Ceiling Pole
5610-01		Tripod stabilizer with O-ring straps

SPECIFICATIONS



Laser Levels					Horizontal and Vertical Lasers		
	LL100N	LL300N	LL300S	LL500	HV101	HV302	HV302G
Accuracy	1/8 in @ 100 ft 3 mm @ 30 m (20 arc seconds)	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	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	1,150 ft (350 m)	1,650 ft (500 m)	2,600 ft (800 m)	1,650 ft (500 m)	Receiver: 1150 ft (350 m) Visible: 200 ft (60 m)	Receiver: 2600 ft (800 m) Visible: 250 ft (75 m)	Receiver: 2600 ft (800 m) Visible: 250 ft (75 m)
Self-leveling range	±5 degrees electronic servo self-leveling			±11 minutes	±5 degrees electronic servo self-leveling		
Power source	2 × D-cell Alkaline batteries	4 D-cell Alkaline Standard, NiMH optional			2 × D-cell Alkaline batteries	4 × D-cell NiMH standard, Alkaline backup	
Battery life	80 hrs Alkaline	90 hrs Alkaline, 45 hrs NiMH	60 hrs Alkaline, 47 hrs NiMH	175 hrs Alkaline, 100 hrs NiMH,	50 hrs Alkaline	60 hrs Alkaline, 45 hrs NiMH	25 hrs Alkaline 30 hrs NiMH
Water res.	Yes, IP54	Yes, IP66		Yes, IP54	Yes, IP66	Yes, IP66	Yes, IP66
Size L × W × H	8.5 × 6.7 × 6.0 in (22 × 17 × 15 cm)	10.7L × 7.7W × 7.9H in (27.2L × 19.7W × 20.1H cm)		10.8 × 7.5 × 7.5 in (27 × 19 × 19 cm)	8.5 × 6.7 × 6.0 in (22 × 17 × 15 cm)	10.7L × 7.7W × 7.9H in (27.2L × 19.7W × 20.1H cm)	10.7 × 7.7 × 7.9 in (27.2 × 19.7 × 20.1 cm)
Weight	3.3 lb (1.5 kg)	6.8 lbs (3.1 kg)		8 lb (3.6 kg)	3.3 lb (1.5 kg)	6.8 lbs (3.1 kg)	6.8 lbs (3.1 kg)
Warranty	2 Years, with instant exchange	5 Years			2 Years, with instant exchange	5 Years	3 Years

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			

SPECIFICATIONS

Grade & Universal Lasers					
	GL412N / GL1425C		GL612N / 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	Single	Dual	
Power source	4 x D-cell NiMH battery pack				
Battery life	35 / 45 hrs NiMH 50 hrs Alkaline		35 hrs NiMH 40 hrs Alkaline		
Rotation speed	300, 600 rpm	300, 600, 900 rpm	300, 600, 750 rpm		0 - 750 rpm
Water resistant	Yes, IP66				
Size L x W x H	10.7x7.7x7.9 in (27x20x20 cm)		11x7.1x9.5 in (28x18x24 cm)		9.4 x 5.9 x 11 in (24 x 15 x 28 cm)
	6.8 lbs (3.1 kg)	7.7 lbs (3.5 kg)	6.8 lbs (3.1 kg)		
Warranty	5 Years				
Wireless Remote Specifications					
Remote control type 2-way communication	RC402N	RC1402	RC602N	RC603N	
Battery life	130 hrs continuous				
Range	330 ft (100 m)		490 ft (150 m)		

Pipe Lasers			
	DG813	DG613/ DG613G	DG211
Grade range	-12% to +40%		-20% to +30%
Self-leveling range	Complete grade range (no rough leveling required) also automatic compensated in the cross axis		-10% to +25%
Line range	20° ±1°		NA
Line center	Yes		
Menu with variable settings	Yes		
Line set/check / Line alert	Yes		No
Accuracy	± 1/16 in @ 100 ft, (1.5 mm/30 m); 10"		
Temperature compensation	Yes		No
Operating range	500 ft (150 m)		
Spot Align, Match, Lok, Search with SF803	Yes	No	No
ST802/ST805 Transporter	Yes	No	No
Color of Laser Beam	Red	DG613 - Red DG613G - Green	Red
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)		6.3 lb (2.87 kg)
Length x Diameter	9.8 in (25 cm) x 5.3 in (13.5 cm)		372 mm (14.65 in) x 96 mm (3.78 in)
Battery type and life	NiMH / 40 hrs (DG613G: 30 hrs) with daily setup at 20° C		Li-Ion / 36 hrs
Battery pack	Sealed (NiMH), Sealed removable (alkaline)		Sealed Li-Ion
Warranty	5 Years		3 Years
Wireless remote specifications			
Functionality	RC803 -Radio-/IR-Remote offers all Laser functions		RC201
Through the pipe range	500 ft (150 m)		
Front / Over the top range	425 ft (130 m)		

Laser Tools								
	LP51	LP51G	LT20	LT20G	LT52R	LT52G	LT56	LT58G
Self-level range	±4° from level				±3° from level		±4° from level	
Working range - Visible	100 ft (30 m)	115 ft (35 m)	100 ft (30 m)	115 ft (35 m)	100 ft (30 m) Lines 200 ft (60 m) Points	115 ft (35 m) Lines 230 ft (70 m) Points	80 ft (25 m)	100 ft (30 m)
With HR1220 detector	N/A		N/A		260 ft (80 m)		260 ft (80 m)	
Accuracy	± 3/16 in @ 50 ft (3 mm @ 10 m)		± 3/16 in @ 50 ft (3 mm @ 10 m)		± 1/8 in @ 50 ft (3 mm @ 15 m)		± 1/8 in @ 50 ft (3 mm @ 15 m)	
Battery type	2 x AA		3 x AA		Lithium-Ion		Lithium-Ion	
Battery life	20 hrs / 10 hrs		20 hrs / 8 hrs		40 / 25 hours points 17 / 8 hours lines		25 hrs all beams	25 hrs horizontal beam 11 hrs all beams
Dimensions	3.5x4.1x2.4 in 8.9x10.4x6.1 cm		4.3x2.3x4.1 in 11.0x5.8x10.4 cm		5.7 x 3.0 x 5.9 in 14.5x7.8x13.8 cm		4.6x6.0x3.3 in 15.2x11.6x8.4 cm	
Weight	0.69 lb (0.31 kg)		0.8 lb (0.35 kg)		1.5 lb. (0.68 kg)		1.48 lb (0.67 kg)	
Warranty	3 Years with instant exchange							

40 VISIT OUR WEB SITE AT SPECTRAPRECISION.COM

SPECIFICATIONS



HR / HL Laser Receivers						
	HR150U	HR1220	HR320	HL450	HL700	HL760 / HL760U
Working Radius <i>*Laser Dependent</i>	3 - 100 ft (1 - 30 m)	3 - 250 ft (1 - 80 m)	3 - 650 ft (1 - 200 m)	3 - 650 ft (1 - 200 m)	3 - 1500 ft (1 - 460 m)	3 - 1500 ft (1 - 460 m)
Laser Detection Height	2 in (50 mm)	3 in (80 mm)	2 in (50 mm)	4 in (102 mm)	5 in (127 mm)	5 in (127 mm)
Radio Working Radius	N/A	N/A	N/A	N/A	N/A	720 ft (220 m)
Accuracy Range (Deadband)	1/8 in (3 mm)	1/16 - 1/8 in (1 - 2 mm)	1/16 - 1/4 in (2 - 6 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	1	2	2	3	6	6
LED Grade Indicators	Green - On Grade Red - High Blue - Low	N/A	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	2 x AA Alkaline	2 x AA Alkaline
Battery Life	50+ hrs	40+ hrs	70+ hrs	60+ hrs	60+ hrs	60+ hrs
Auto Shut Off	30 min	30 min	30 min	30 min - 24 hr	30 min - 24 hr	24 hr
IP Rating	IP67	IP66	IP67	IP67	IP67	IP67
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
Rod Clamp Part No.	C61	C20	C59	C45	C70	C70

GL700 Series Lasers		
Model	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	-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	Yes
Auto Axis Alignment	No	Yes
Grade Match Mode	No	Yes
PlaneLok	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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SPECIFICATIONS

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 / Counterclockwise 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	
Power supply	2 x AAA 1.5V	
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	

SPECIFICATIONS



Spectra Precision Laser Applications	Laser Pointers - LP51 - LP51G - LT52R - LT52G	Line Generator - LT20 - LT20G - LT52R - LT52G - LT56 - LT58G	Handheld Distance Measuring Device - QM10 - QM20	Laser Levels - LL100N - LL300N - LL300S - LL500 Optical Levels - AL20 - AL24 - AL28 - AL32	Horizontal Vertical Lasers - HV101 - HV302 - HV302G	Grade & Universal Lasers - GL412N - GL1425C - GL612N - GL622N - GL622IR - GL720 - GL722 - UL633N
General Construction						
Forms, footings and foundations				○	○	○
Septic tank or swimming pools, decks and terraces		○		○	○	○
Estimating cut and fill				○	○	○
Checking building square and area		○	○		○	○
Matching existing slopes and grades				○	○	○
Checking elevations				○	○	○
Checking elevations of sub-base and sub-grade				○	○	○
Checking and setting elevations for sports fields, steep slopes, ramps, and drainage						○
Vertical alignment and plumb such as anchor bolt and form alignment		○			○	○
Interior						
Locating finished floor levels		○		○	○	
Laying out interior walls	○	○			○	
Installing ceiling grids	○	○			○	
Short-run vertical alignment		○			○	
Squaring and layout of partitions, walls and tile floors	○	○			○	
Plumb reference and point transfers from below to above, such as walls, door frames, and lighting locations measured from the floor layout to ceiling	○	○			○	
Level reference used for leveling cabinets, counter tops, windows, decks ceilings and chair rails	○	○			○	
Measuring distances, depths and heights			○			

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Contact Information:

EUROPE, MIDDLE EAST, AFRICA

Spectra Precision (Kaiserslautern) GmbH
Am Sportplatz 5
67661 Kaiserslautern
GERMANY
Tel +49-(0)6301-71 14 14

AMERICAS

Spectra Precision (USA) LLC
3265 Logistics Lane, Suite 200
Dayton, Ohio 45377
U.S.A.
Tel 888-527-3771 (Toll Free in U.S.A.)



Specifications subject to change without notice

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