










PRODUCTIVITY IS THE RIGHT TOOL FOR THE JOB...  
FROM THE DEEPEST TOOL BOX IN THE LASER BUSINESS.

THE BROADEST LINE FROM THE  
STRONGEST NAME IN LASERS



Model	Accuracy	Diameter Range	Application
<b>Laser Levels</b>			
<b>LL100N</b>	 1/8 in @ 100 ft (3.0 mm @ 30 m)	1,150 ft (350 m)	<ul style="list-style-type: none"> <li>Forms, footings and foundations (residential jobs)</li> <li>Septic tank or swimming pool installations</li> <li>Estimating cut and fill</li> <li>Decks and terraces</li> </ul>
<b>LL300N</b>	 3/32 in @ 100 ft (2.2 mm @ 30 m)	1,650 ft (500 m)	<ul style="list-style-type: none"> <li>Elevation control across small- and mid-size construction sites</li> <li>Excavations</li> <li>Basic slopes</li> <li>Leveling forms and footers</li> <li>Concrete pours</li> <li>1 m (4 ft) marks</li> </ul>
<b>LL300S</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2,600 ft (800 m)	<ul style="list-style-type: none"> <li>General elevation control</li> <li>Checking and setting elevations for small to medium job sites</li> <li>Leveling forms and footers</li> <li>Estimating cut and fills</li> <li>Excavations</li> <li>Basic slopes for driveways and ramps</li> </ul>
<b>LL400HV</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2,600 ft (800 m)	<ul style="list-style-type: none"> <li>Checking/setting elevations, concrete forms, footings, and foundations for large commercial jobs</li> <li>Basic slope work such as foundations for small-to-large site prep work</li> <li>Excavating for forms or footers with CR600 receiver</li> <li>Sub-base leveling with skid steer loaders and CR600 receiver</li> </ul>
<b>LL500</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	1,600 ft (500 m)	<ul style="list-style-type: none"> <li>Checking elevations</li> <li>Setting concrete forms, footings, and foundations (small-to-large jobs)</li> <li>Ideal for larger pads</li> <li>Machine control compatible</li> </ul>
<b>Grade &amp; Universal Lasers</b>			
<b>GL412N/ GL422N</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> <li>Leveling concrete forms and footers</li> <li>Vertical alignment and plumb such as anchor bolt and form alignment</li> <li>Single and dual slope grading and excavating applications</li> <li>Grading Parking lots, tennis courts and driveways</li> </ul>
<b>GL612/ GL622</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> <li>Steep slope road embankments and ditch banks</li> <li>High accuracy grade work</li> <li>Wireless remote monitoring with HL750</li> <li>Single and dual slope grading and excavating applications</li> </ul>
<b>UL633</b>	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> <li>Dual slope grading and steep slope excavating</li> <li>Precision grade up to 25% in X, Y and Z axis</li> <li>Drift free vertical alignment and plumb</li> <li>Measuring slopes in open trenches and existing pipes</li> </ul>
<b>GL710/ GL720/ GL722</b>	 1/32 in @ 100 ft (0.8 mm @ 30 m)	3000 ft (900 m)	<ul style="list-style-type: none"> <li>High accuracy grade work</li> <li>Single and dual slope grading and excavating applications</li> <li>Machine control compatible</li> <li>General construction, site preparation and road construction</li> </ul>

	Laser Levels					Grade & Universal Lasers		
	LL100N	LL300N	LL300S	LL400HV	LL500	GL412N/422N	GL612/622	UL633
<b>Laser type / classification</b>	650 nm, Class 2	650 nm, Class 2	650 nm, Class 2	650 nm, Class 2	670 nm, Class 2	650 nm, Class 2	650 nm, Class 2/ 3 mW	650 nm, Class 3A/3R, <5mW
<b>Self-leveling range</b>	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±11 minutes wire hung compensator	±5 degrees electronic servo self-leveling	±14 degrees electronic servo self-leveling	±14 degrees electronic servo self-leveling
<b>Out-of-level indication</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Power source</b>	2 x D-cell Alkaline	4 x D-cell Alkaline standard, recharge optional	4 x D-cell Alkaline standard, recharge optional	4 x D-cell Alkaline standard, NiMH optional	4 x D-cell Alkaline standard, recharge optional	4 x D-cell NiMH standard, Alkaline backup	4 x D Cell, NiMH Pack standard, Alkaline backup	4 x D Cell, NiMH Pack standard, Alkaline backup
<b>Battery life</b>	80 hr Alkaline	90 hr Alkaline, 45 hr NiMH	60 hr Alkaline, 47 hr NiMH	60 hr Alkaline, 47 hr NiMH	175 hr Alkaline, 100 hr NiMH	50 hr Alkaline, 35 hr NiMH	40 hr alkaline, 35 hr NiMH	40 hr alkaline, 35 hr NiMH
<b>Grade Capability</b>	Manual - Single axis	Manual - Single axis	Manual - Single axis	Manual - Dual Axes	No	Electronic -10 to +15% Single Axis/ Dual Axes	Electronic -25% to +25% Single Axis/ Dual Axes	Electronic -25% to +25% X, Y, Z Axis
<b>Warranty</b>	3 Years Limited	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years

Optical Auto Levels / Theodolites						
	AL20M	AL24A	AL24M	AL28M / AL28M-G	AL32A	DET-2
<b>Magnification</b>	20x	24x	24x	28x	32x	30x
<b>Accuracy</b>	+/- 2.5 mm (0.10 in)*	±2.0 mm (0.08 in)*	±2.0 mm (0.08 in)*	±1.5 mm (0.06 in)*	±1.0 mm (0.04 in)*	±50 mm (2 in)
<b>Aperture</b>	30 mm (1.2 in)	30 mm (1.2 in)	30 mm (1.2 in)	30 mm (1.2 in)	36 mm (1.4 in.)	45 mm (1.8 in.)
<b>Shortest focus</b>	0.6 m (1.97 ft)	0.6 m (1.97 ft)	0.6 m (1.97 ft)	0.6 m (1.97 ft)	0.6 m (1.97 ft)	1.45 m (4.76 ft)
<b>Compensator</b>	Magnetic dampened	Air dampened	Magnetic dampened	Magnetic dampened	Air dampened	Automatic
				AL28M-G available in gon		

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

### An Entire industry. Invented here.

There's a reason Spectra Precision is the strongest name in the industry. We invented the industry. From day one, we have pioneered every major development in laser positioning for construction. That's why you'll find over one million of our professional rotating lasers on job sites around the world... more than any other brand.

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# 2015 CONSTRUCTION PRODUCTIVITY TOOLS



Toughest on Earth  
Strongest Warranty  
Easiest to Use

## LASER LEVELS

### LL100N

Complete system in one case—includes laser, HR320 receiver, rod, and tripod

- Convenient storage and transportation.

Compensated self-leveling, maintains level automatically

- Maintains accuracy over the entire work area, and minimizes errors.

Robust design

- 3 year no downtime warranty keeps productivity high and operating costs low.



### LL300N

New standard in ruggedness

- Superior drop and weather protection.

Fully automatic self-leveling

- Provides fast and accurate set-up.

Single axis manual slope mode via optional RC601 remote control

- RC601 makes slope matching to a single person operation.



### LL300S

Highly durable construction

- Superior drop and weather protection.

Fully automatic self-leveling

- Provides fast and accurate set-up.

Extremely versatile with single-axis manual slope

- Cross-axis self-leveling allows for grade matching on the job site.



### LL400HV

Fast setup and automatic H + V self-leveling

- Minimizes operating costs and boosts productivity.

Highly durable construction

- Superior drop and weather protection.

Single-axis slope mode selectable on both axes

- Provides grade matching with self-leveling cross axis.



### LL500

500 m (1,600 ft) working diameter

- Long-range accurate laser increases productivity by reducing the need for multiple setups on large job sites.

Built-in leveling system with out-of-level shut off

- Maintains accuracy over the entire work area and minimizes errors.

High accuracy laser, 1.5 mm per 30 m (1/16 per 100 ft) with temperature compensation

- Highly stable and repeatable accuracy even under large temperature changes.



## GRADE LASERS

### GL412N/GL422N

Fully automatic self-leveling performs three jobs cost effectively

- Level, -10 to +15% grade, and vertical alignment with plumb.

Full function remote control does everything you can do at the laser keypad

- Make grade changes from anywhere on the job reducing setup times.

Menu driven user interface

- Reduces learning time and eliminates complex button pressing.



### GL612/GL622

Ultimate Control of X/Y Axes

- Fully automatic up to +/-25% grade on X/Y axes.

Wireless communication with the HL750 Laserometer

- Grade Matching - easily measure unknown grade between two points.
- PlaneLok - locks the beam to a fixed elevation or vertical alignment point for maximum stability and accuracy.

2-way full function radio remote control

- Perform all functions at the laser keypad anywhere on the job site.



### GL710, GL720, GL722

Single & Dual Grade Lasers

- 0.5 to +25% grade range on the Y-axis and  $\pm 10\%$  on the X-axis (GL720, GL722) with high accuracy.

Active temperature compensation

- Accurate, stable results regardless of temperature changes.

Large Alpha/Numeric Display for each axis

- Transmitter displays are visible from ground even used on tall 10 ft (3 m) tripods.

GL722

- Grade Match, PlaneLok and Automatic Axis Alignment.
- Long range Radio Remote Control.



## UNIVERSAL LASERS

### UL633

The most versatile laser - ever

- Dual Grade, Horizontal, Vertical, Interior and Layout Laser based on Fanbeam technology.

Fully automatic +/-25% in X, Y and Z axis

- Total control for any application.

Several unique advanced features

- Plane-Lok, Grade Match and Axis Alignment ensure accuracy and fast setup.



## PIPE LASERS

### DG511/DG711

Largest self-leveling range

- Fast, easy setups.
- No rough leveling required.

Wireless remotes

- included standard.

Construction tough

- Stands up to the demanding underground conditions.
- Proven rugged dependability.



## OPTICAL INSTRUMENTS

### DET-2 / ALXX-A/M Series Digital Electronic Theodolite

- 2 second accuracy for all construction applications.
- Dual sided LCD with large easy to read characters.
- Rechargeable and alkaline battery packs included.

Spectra Precision Auto Levels

- 20, 24, 28 or 32 power magnification.
- Choice of air dampened or magnetic dampened.



## LASER RECEIVERS

### HR's, HL's, CR600

Traditional laser receivers

- HR150U, HR320.
- Ideal for general exterior and interior applications.
- Models with LED's and/or LCD's.



Rod clamps are standard on all receivers

Digital Readout (DRO) receivers

- HL450, HL700, HL750, HL760.
- Digital readout of elevation.
- Exceptional durability and warranty.
- Advanced features including radio comm.



Specialty receivers

- Machine or rod mounted - CR600.
- Universal receivers detect red, infrared and green beams - HL760U, HR150U.
- Line generator receiver - HR220.



### DigiRod DR400

The Rod-less Grade Checker

- Digital Readout receiver, Distance Meter, Tilt Sensor - All-in-One.



## MACHINE RECEIVERS

### LR20, LR30W, LR50W, LR60W

Increase machine and operator productivity

- Check grade from the machine cab.
- Saves labor, time, and fuel.
- Use on backhoes, excavators, dozers, box blades, trenchers, and skid steer attachments.

All LR receivers feature

- Versatile 360 degree reception.
- Works with all types of rotating lasers.
- Multiple accuracy selections.
- Power options and long battery life.
- Ultra-bright LED's with green on-grade.
- LR30W-LR60W links wirelessly to the RD20 in-cab display.



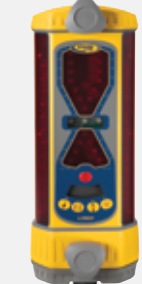
- LR20 and adjustable magnetic mount for compact machines



- LR30W for general grading
- 3 selectable accuracies



- LR50W for excavating and grading
- Built in blade tilt and plumb indication



- LR60W for excavating
- Plumb indication and unique angle compensation

LR receivers accessories



- RD20 Wireless Remote Display
- Displays grade information to the operator in the cab
- Works with LR30W, LR50W, LR60W

- MM-1 Magnetic Mount
- Quickly attach receivers to backhoes and excavators
- Strong dual adjustable magnet packs

