










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
Laser Levels			
LL100N	 1/8 in @ 100 ft (3.0 mm @ 30 m)	1,150 ft (350 m)	<ul style="list-style-type: none"> Forms, footings and foundations (residential jobs) Septic tank or swimming pool installations Estimating cut and fill Decks and terraces
LL300N	 3/32 in @ 100 ft (2.2 mm @ 30 m)	1,650 ft (500 m)	<ul style="list-style-type: none"> Elevation control across small- and mid-size construction sites Excavations Basic slopes Leveling forms and footers Concrete pours 1 m (4 ft) marks
LL300S	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2,600 ft (800 m)	<ul style="list-style-type: none"> General elevation control Checking and setting elevations for small to medium job sites Leveling forms and footers Estimating cut and fills Excavations Basic slopes for driveways and ramps
HV302	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2,600 ft (800 m)	<ul style="list-style-type: none"> 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
LL500	 1/16 in @ 100 ft (1.5 mm @ 30 m)	1,600 ft (500 m)	<ul style="list-style-type: none"> Checking elevations Setting concrete forms, footings, and foundations (small-to-large jobs) Ideal for larger pads Machine control compatible
Grade & Universal Lasers			
GL412N/ GL422N	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> Leveling concrete forms and footers Vertical alignment and plumb such as anchor bolt and form alignment Single and dual slope grading and excavating applications Grading Parking lots, tennis courts and driveways
GL612N/ GL622N	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> Steep slope road embankments and ditch banks High accuracy grade work Wireless remote monitoring with HL760 Single and dual slope grading and excavating applications
UL633N	 1/16 in @ 100 ft (1.5 mm @ 30 m)	2600 ft (800 m)	<ul style="list-style-type: none"> Dual slope grading and steep slope excavating Precision grade up to 25% in X, Y and Z axis Drift free vertical alignment and plumb Measuring slopes in open trenches and existing pipes
GL710/ GL720/ GL722	 1/32 in @ 100 ft (0.8 mm @ 30 m)	3000 ft (900 m)	<ul style="list-style-type: none"> High accuracy grade work Single and dual slope grading and excavating applications Machine control compatible General construction, site preparation and road construction

	Laser Levels					Grade & Universal Lasers		
	LL100N	LL300N	LL300S	HV302	LL500	GL412N/422N	GL612/622N	UL633N
Laser type / classification	650 nm, Class 2	639 nm, Class 2	650 nm, Class 2	650 nm, Class 2	670 nm, Class 2	639 nm, Class 2	639 nm, Class 2, 3 mW	650 nm, Class 3A/3R, <5mW
Self-leveling range	±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
Out-of-level indication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power source	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
Battery life	80 hr Alkaline	90 hr Alkaline, 45 hr NiMH	60 hr Alkaline, 47 hr NiMH	60 hr Alkaline, 45 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
Grade Capability	Manual - Single axis	Manual - Single axis	Manual - Single axis	Manual - Single axis	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
Warranty	2 Years	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
Magnification	20x	24x	24x	28x	32x	30x
Accuracy	+/- 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)
Aperture	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.)
Shortest focus	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)
Compensator	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 construction laser business. 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.

Easiest to Use

Spectra Precision instruments are engineered with state-of-the-art components, giving you the most dependable, easiest to use, laser on the job site. Spectra Precision products are always ready to work when you are.

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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

- 2 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 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.



HV302

Fully automatic H + V self-leveling

- Split beam – enables plumb point transfer and 90 degree layout.
- Minimizes operating costs and boosts productivity.

Highly durable construction

- Superior drop and weather protection.

Radio communication between the HL760 receiver and laser

- Provides automatic Grade Match and PlaneLok.



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.



GL612N/GL622N

Ultimate Control of X/Y Axes

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

Wireless communication with HL760

- 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 ± 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

UL633N

The most versatile laser - ever

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

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

- Total control for any application.

Unique advanced features

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

HL760 Digital Readout Receiver

- "Fingerprint" Technology



PIPE LASERS

DG613/DG813

Compact, Tough and Smart

- 12% to 40% grade range.
- High speed leveling system.
- Full cross axis compensation.

Wireless Remote

- Long range Radio/IR remote control.

Automatic Alignment

- With Spot Finder (DG813 only).



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.



Digital Readout (DRO) receivers

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



Specialty receivers

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



Rod clamps are standard on all receivers

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

