

Over 45 years experience in construction tools



Productivity Is The Right Tool For The Job... From The Deepest



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New Products

New Products for 2013

Grade Laser



GL612/GL622 Grade Lasers

Versatile automatic grade lasers for level, grade, and vertical alignment

Single grade and dual grade models with compensated grade ranges of -25% to +25%. Includes HL750 Laserometer and RC602 remote control. Advanced features for exceptional versatility on the jobsite

More details and more Grade Lasers starting on page 8

Remote Display



RD20 Remote Display

Wireless Remote Display for use with new wireless LR receivers

The remote display can quickly and easily be positioned, without cables, for optimum viewing in the cab. Large, bright LEDs display red, blue or green lights to signal high, low or on-grade. An audible signal is also provided.

More details on Laser Display Receivers starting on page 21

Crossline Laser Tool



LT20 Crossline Laser Tool

The Rugged Laser Distance Meter

The LT20 features ultra-bright lines and a rugged design. Choose a horizontal plane, a vertical plane or both. Extensive protective overmold allows a 3 foot (1 m) drop without worry. A versatile mounting bracket allow mounting on tripods, columns, poles

More details and more Laser Tools starting on page 19

Spectra Precision DR400

DigiRod - The Rod-less Grade Checker

Applications

- » Excavations
- » Foundations, concrete forms and footings
- » General grading
- » Utilities installation
- » Surveying
- » Cut / Fill, Direct and Indirect measurements
- » Laser Distance Meter
- » Distance measuring by one person to 50 m (160 ft)
- » Estimating
- » As-built Verification

Features and Benefits

DigiRod

- » Extremely portable, universal system that eliminates the need to carry, transport, or maintain multiple grade rod types
- » Increases safety, reducing the need to lean over or go into excavations or trenches
- » Increases accuracy, the internal angle compensation system reduces errors and extra material costs due to tilted grade rods
- » Increases productivity by always having the correct rod on-hand, and eliminating tool marks on screeded concrete
- » Easy to learn, easy to use - the simple graphical display and bright backlight allow for fast readings in low light
- » Works with existing rotating lasers, increasing productivity with a fast payback

Rod Mounted Laserometer

- » 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 5 inch (12.7 cm) reception height allows faster readings by acquiring the beam quickly, and makes it easier to stay in the beam.
- » Universal reversible clamp for square or oval rods
- » Simultaneous elevation LEDs and bright backlight reinforces the elevation display in low light for faster readings

Handheld Laser Distance Meter

- » Increases productivity by one tool having multiple applications
- » Increases safety by allowing one person to make accurate readings in difficult-to-reach areas
- » Increases accuracy, eliminating issues with sagging or mis-held tapes at different temperatures
- » 5 Year "No Cost" Warranty



Large digital readout displays exact elevation from on-grade



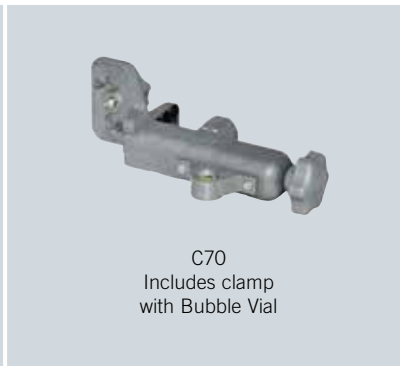
DR400 in Laserometer Mode with traditional rod clamp

Components for DR400



0400-1930
Pouch for DR400

Q100206
Laser Glasses



C70
Includes clamp
with Bubble Vial



0400-1900
Handle for DR400

Laser Receivers and Laserometers

HR150U Universal Receiver

Interior receiver with highly visible LEDs and built-in magnetic mount



Features & 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 alignments and elevations
- » 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
- » For interior or exterior short-range general construction applications, with a general purpose rod clamp standard
- » The perfect entry level receiver for smaller job sites
- » Includes C61 rod clamp

Applications

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

HR220 Line Generator Receiver

Special line generator receiver for use with crossline lasers



Features & Benefits

- » Five channel LCD on the front for general exterior leveling
- » Simultaneous LED display shows green on grade, red too high and blue too low
- » Built in magnet allows the receiver to be easily mounted to ceiling grid or drywall track without the need for additional accessories
- » Works with 5.2XL, 1.3XL and 1.5PL line generating lasers
- » Snap in rod clamp allows for quick switching from rod mounted to handheld
- » Integrated level bubbles for adjusting the receiver into a plumbed position
- » Durable in wet and dusty conditions; the housing and battery compartment are waterproof and dust-proof to IP67
- » Works with older models LL200 laser levels but with a shorter range
- » Includes C61 rod clamp

Applications

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

HR320 Receiver

Tough receiver for exterior leveling and alignment applications



Features & 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 switching from rod-mounted to handheld applications
- » Strong, IP67 waterproof housing protects the unit from dust, moisture, and accidental drops
- » Loud 100 db speaker can easily be heard on the noisiest job sites. 3 adjustable speaker levels (loud, low, and off)
- » Includes C59 rod clamp

Applications

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

HL450 Laserometer

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

Features & Benefits

- » Digital readout of elevation allows faster readings by displaying the exact numerical distance from grade, eliminating the need to move the receiver to get to "on-grade"
- » Anti-Strobe Sensor stops construction strobe lights from setting off the receiver, and eliminates phantom strikes for easier identification of true laser beam signals
- » Large 4-inch (10.2 cm) reception height allows faster readings by acquiring the beam quickly, and makes it easier to stay in the beam
- » Withstands direct drops up to 5 feet (1.5 m) 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
- » Rod clamp included



HL700 Laserometer

Highly versatile receiver for basic and advanced leveling and aligning applications

Applications

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

Features & Benefits

- » Digital Readout of Elevation provides a numeric display of ± 2 inches (± 5 cm) and shows exactly how far the elevation is from on-grade
- » A large 5 inch (12.7 cm) reception height, more than double the industry standard, allows quick acquisition of the laser beam
- » Unique anti-strobe sensor stops construction strobe lights from setting off the receiver, and eliminates phantom strikes for easier identification of true laser beam signals
- » Multiple on-grade sensitivities to customize accuracy needs to application
- » Designed to survive tough construction site conditions; totally waterproof and can withstand a drop of 10 feet (3 m) 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
- » 3 Year "No Excuses" Warranty
- » Rod clamp with bubble vial included



HL750 Radio Laserometer

Highly versatile receiver for basic and advanced leveling and aligning applications

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

Features & Benefits

- » Digital readout of elevation – not only will high or low arrows be displayed, but the exact distance from grade will be displayed, which eliminates the need to get "on-grade" to make measurements
- » Large 5 inch (12.7 cm) reception height acquires the beam quickly and makes it easy to stay in the beam
- » The HL750U has an internal, long range (260 ft radius / 80 m), high speed digital radio built inside that allows the it to communicate with any other HL750, HL750U, or the GL612, GL622 and UL633 laser transmitters
- » Two clamp positions for cut/fill or excavation
- » 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
- » 3 Year "No Excuses" Warranty
- » Rod clamp with bubble vial included



Laser Receivers and Laserometers

HL750U Universal Radio Laserometer

Universal receiver for red and green laser applications



Features & Benefits

- » The HL750U with Radio Communication is a stand-alone receiver that works with ANY general construction, site work, agriculture, machine control or highway and heavy rotating laser transmitter, including Green Beam lasers
- » The HL750U has an internal, long range (260 ft radius / 80 m), high speed digital radio built inside that allows the receiver to communicate with any other HL750, HL750U, or the GL612, GL622 and UL633 laser transmitters
- » Two HL750U's can be used together for long range wireless remote display and monitoring - even when the 2nd receiver is out of sight
- » Rod clamp with bubble vial included
- » 3 Year "No Excuses" Warranty

Applications

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

CR600 Combination Receiver

Advanced receiver that can be machine or rod mounted for increased productivity applications



Features & Benefits

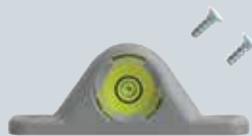
- » Provides high, low, or on-grade information for all your grading and excavation applications up to 1,500 ft (450 m) radius
- » In addition to handheld and rod-mounted capabilities, the CR600 system includes a C51 machine magnetic mount so it can be used as a machine-control mounted receiver in a 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 pick-up of the laser beam
- » Five on-grade sensitivities to customize need to application
- » 3 Year warranty
- » Can be used with any brand rotating red laser

Applications

- » Digging footings
- » Basement excavation
- » Checking sub-base materials
- » Setting and checking elevations
- » Leveling and aligning forms
- » Screeding concrete

Accessories and Components

All receivers include rod clamps — CR600 includes rod clamp and magnetic mount



Optional Bubble Vial Kit for HR150U, HR220, HR320 and HL450 receivers clamps PN 1277-6251S



C70 HL700 and HL750(U) includes clamp with Bubble Vial



C45 HL450 Clamp



C51 Magnetic Mount included with CR600 receiver



C50 Clamp included with CR600 receiver

Applications

- » Level, horizontal and vertical layout and plumb
- » Acoustical ceiling installation
- » Building, layout, and squaring of interior walls
- » Drywall track installation
- » Cabinet and trim installation, finish carpentry

See Product Specifications on Page 24

Rugged and ultra-bright beams

Features and Benefits:

- » Rugged – robust design allows work to continue even after dropping
- » Bright lines – easy to see even in areas with bright light
- » Versatile accessory – can be used for any application
- » Wide fan beam angles – provides maximum coverage

- » Includes a pouch, target, accessory bracket, mounting strap, batteries and user guide
- » 3 Year Instant Exchange limited warranty minimizes downtime – best coverage for professional construction work

Part No.	Receiver	Case
LT20	No	Soft Pouch

Spectra Precision LT20 Crossline Laser Tool



Applications

- » Level, horizontal and vertical layout, square, and plumb
- » Building, 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 HR220 receiver
- » Exterior building decks, patios, columns, and posts

Two Tools in One

Features and Benefits:

- » Eliminates the need for a contractor to purchase two tools - a 5-beam pointer and a crossline laser - by combining both into one simple product
- » Automatic self-leveling assures accuracy and fast setup
- » The industry's brightest crossline laser for easy viewing in all conditions
- » Easy-to-see lines with a biased upwards beam that intersects the plumb up point

- » Set it up once and work plumb, level and square in the whole area
- » 3 Year Instant Exchange limited warranty minimizes downtime
- » Water, mud, and shock resistant, able to withstand a 3 ft (1 m) drop onto concrete
- » HR220 receiver can be added for exterior applications for maximum jobsite versatility

Part No.	Receiver	Case
5.2XL	No	Soft Pouch
5.2XL-2	HR220	Hard Case

Spectra Precision 5.2XL Point and Crossline Laser



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 HR220 receiver
- » Reference points for sprinkler systems, HVAC, lighting
- » Exterior building deck footings, patios, columns, & posts

Simple to use — perfect for interior construction

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
- » Easy-to-see 200° horizontal / 120° vertical lines with a biased upwards beam that intersects the plumb up point

- » One tool does level, plumb and 90 degree beams... use on every job every day. HR220 receiver can be added for exterior applications for maximum jobsite versatility
- » 3 Year Instant Exchange limited warranty minimizes downtime
- » Water, mud, and shock resistant, able to withstand a 3 ft (1 m) drop onto concrete

Part No.	Receiver	Case
1.3XL	No	Hard Case
1.3XL-2	HR220	Hard Case

Spectra Precision 1.3XL 3-Plane Crossline Laser



Spectra Precision LR30/LR30W Receiver

Used on dozers, box blades, levelers

Applications

- » Machine mounted grade checking
- » Grading and leveling

See Product Specifications
Starting on Page 23.

Features and Benefits:

- » Use on grading and excavating equipment including: dozers, graders, scrapers, skid steers and levelers
- » Five channels of grade information plus directional out-of-beam indicators
- » Three selectable accuracies meet job tolerances from rough grading to final finishing
- » Full 360 degree reception picks up the laser from all directions
- » Ultra-bright LED's with Green on-grade provides easy-to-see display to match ambient lighting conditions

- » LR30W wireless model works with the RD20 wireless remote display

Part No.	Batteries	Mount	Remote
LR30	NiMH	No	No
LR30-1	Alkaline	No	No
LR30-MM	NiMH	MM-1	No
LR30-DM	NiMH	DM-20	No
LR30W-2	NiMH	No	No
LR30W	NiMH	No	RD20
LR30W-MM	NiMH	MM-1	RD20
LR30W-DM	NiMH	DM-20	RD20



Spectra Precision LR50/LR50W Receiver

Features built-in blade tilt and excavation plumb indicator

Applications

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

See Product Specifications
on Page 23

Features and Benefits:

- » Built-in blade tilt indicator helps the operator keep the blade level for increased accuracy and productivity
- » Center on-grade provides an equal amount of grade information above and below on-grade. Use on dozers, graders, scrapers and box blades
- » Built-in plumb indicator for fast, accurate grade checking in excavation applications
- » Offset on-grade gives you more range above grade using the entire receiver for more productive excavation
- » Up to six channels of grade information plus directional out-of-beam indicators

- » 2 Year Warranty - Reliability you can count on
- » LR50W wireless model works with the RD20 wireless remote display

Part No.	Batteries	Mount	Remote
LR50	NiMH	No	No
LR50-1	Alkaline	No	No
LR50-MM	NiMH	MM-1	No
LR50-DM	NiMH	DM-20	No
LR50W-2	NiMH	No	No
LR50W	NiMH	No	RD20
LR50W-MM	NiMH	MM-1	RD20
LR50W-DM	NiMH	DM-20	RD20



Spectra Precision LR60/LR60W Receiver

Features excavation plumb indicator and angle compensation indication

Applications

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

See Product Specifications
on Page 23

Features and Benefits:

- » Patented Angle Compensation Indication automatically calculates and corrects the grade display for the angle of the dipper arm
- » Check grade with the dipper arm extended or retracted up to 30 degrees
- » Built-in plumb indicator for fast, accurate grade checking
- » Center on-grade provides an equal amount of grade information above and below on-grade. Use on dozers, graders, scrapers and box blades
- » Extended reception height stays in the beam longer providing addition grade information
- » Offset on-grade for productive excavation

- » Up to eight channels of grade information plus directional out-of-beam indicators
- » Four selectable accuracies for each on-grade location
- » LR60W wireless model works with the RD20 wireless remote display

Part No.	Batteries	Mount	Remote
LR60	NiMH	No	No
LR60-1	Alkaline	No	No
LR60-MM	NiMH	MM-1	No
LR60W-2	NiMH	No	No
LR60W	NiMH	No	RD20
LR60W-MM	NiMH	MM-1	RD20



Laser Display Receivers

LR20 Receiver

Compact laser receiver used on mini-excavators and compact machines



LR20-1

Features and Benefits:

- » 8 inch (20 cm), 360 degree laser reception provides large working area and range
- » Polycarbonate housing and elastomer over molding provides rugged durability for years of reliable use
- » Super bright grade display with Green on-grade LEDs provides superior depth/elevation indication
- » Push button setup for ease of use and application flexibility
- » Powered by NiMH batteries; optional machine power cord available
- » Center and offset on-grades are ideal for both grading and excavating applications
- » Built-in plumb indicator for fast, accurate grade checking in excavation applications
- » LR20-1 kit includes adjustable magnetic mount that fits in case with receiver for easy transport

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

Applications

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

See Product Specifications on Page 23

Display Receiver Accessories

Remote Display and quick mounts for increased productivity



RD20 Wireless Remote Display

- » Wireless remote mounts easily in the cab, without cables, and displays grade information to the operator
- » Helps keep focus on the work and not on the receiver for higher productivity
- » Large, bright LEDs display red, blue or green lights to signal high, low or on-grade
- » An audible signal is also provided
- » Configure the accuracy, brightness and other settings of the receiver without getting out of the cab
- » Works with LR30W, LR50W & LR60W

Part No.	Description
RD20	Wireless Remote Display
RDM-1	RD20 Swivel Mount with Suction Cup
DM-20	Bulldozer Bolt-On Mount
MM-1	Magnetic Mount



RDM-1 Swivel Mount for RD20

DM-20 Bulldozer Bolt-On Mast

- » Trimble Ready™ adjustable mount installs with no welding. The mast mount bolts instantly to machines that come from the factory Trimble Ready.



MM-1 Magnetic Mount

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



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

Laser Levels					Horizontal and Vertical Lasers		
	LL100	LL300	LL400	LL500	HV101	HV301	HV301G
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)	1/16 in @ 100 ft 1.5 mm @ 30 m (10 arc seconds)	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)	3/32 in @ 100 ft 2.2 mm @ 30 m (15 arc seconds)
Operating diameter	1,000 ft (300 m)	1,300 ft (400 m)	2,600 ft (800 m)	1,600 ft (500 m)	Receiver: 1000 ft (300 m) Visible: 200 ft (60 m)	Receiver: 1,600 ft (500 m) Visible: 330 ft (100 m)	Receiver: 1,600 ft (500 m) Visible: 500 ft (150 m)
Self-leveling range	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±11 minutes	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling	±5 degrees electronic servo self-leveling
Power source	2 × D-cell Alkaline batteries	4 × D-cell Alkaline standard, NiMH optional	4 × D-cell Alkaline standard, NiMH optional	4 × D-cell Alkaline standard, NiMH optional	2 × D-cell Alkaline batteries	4 × D-cell NiMH, standard, Alkaline backup	4 × D-cell NiMH standard, Alkaline backup
Battery life	80 hr Alkaline	90 hr Alkaline, 45 hr NiMH	90 hr Alkaline, 55 hr NiMH	175 hr Alkaline, 100 hr NiMH	50 hr Alkaline	90 hr Alkaline, 40 hr NiMH	45 hr Alkaline, 18 hr NiMH
Water res.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Size L × W × H	8.5 × 6.7 × 6.0 in (22 × 17 × 15 cm)	9.6 × 6.5 × 7.3 in (24 × 16 × 18 cm)	8.3 × 7.1 × 7.9 in (21 × 18 × 20 cm)	10.8 × 7.5 × 7.5 in (27 × 19 × 19 cm)	8.5 × 6.7 × 6.0 in (22 × 17 × 15 cm)	9.6 × 6.5 × 7.3 in (24 × 17 × 19 cm)	9.6 × 6.5 × 7.3 in (24 × 17 × 19 cm)
Weight	3.3 lb (1.5 kg)	6 lb (2.7 kg)	6.8 lb (3.1 kg)	8 lb (3.6 kg)	3.3 lb (1.5 kg)	6 lb (2.7 kg)	6 lb (2.7 kg)
Warranty	3 Year, with instant exchange	5 Years	5 Years	5 Years	3 Year, with instant exchange	5 Years	5 Years

Laser Display Receivers				
	LR20	LR30 / LR30W	LR50 / LR50W	LR60 / LR60W
Number of Display Channels	5-Channel Display	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	NA	NA	Fine: 0.50 in (12 mm) Standard: 1.0 in (25 mm)
Blade-Tilt Accuracy	NA	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	360 Degrees	360 Degrees	360 Degrees
Vertical Reception	8 in (203.2 mm)	6.75 in (171 mm)	6.75 in (171 mm)	8.75 in (222 mm)
LED Battery Life LR / LRW Alkaline Bright - Dim LR / LRW NiMH Bright - Dim	35	50 - 75 / 30 - 40 hrs 40 - 50 / 20 - 30 hrs	45 - 60 / 20 - 30 hrs 30 - 45 / 15 - 20 hrs	45 - 75 / 25 - 35 hrs 40 - 50 / 20 - 25 hrs
Battery Recharge Time	3-4 hrs	3-4 hrs	3-4 hrs	3-4 hrs
Size	9.5 × 4.38 × 1.85 in (24.1 × 11.1 × 4.7 cm)	13.5 × 5.6 × 5.9 in (34.3 × 14.2 × 14.9 cm)	13.5 × 5.6 × 5.9 in (34.3 × 14.2 × 14.9 cm)	15.5 × 5.6 × 5.9 in (39.4 × 14.2 × 14.9 cm)
Receiver Warranty	2 Years	2 Years	2 Years	2 Years

Specifications

Grade & Universal Lasers

	GL412 / 422		GL612 / 622		UL633
Accuracy	1/16 in at 100 ft, 1.5 mm at 30 m (10 arc seconds)				
Operating diameter	2000 ft 600 m	2600 ft 800 m	2600 ft 800 m		2600 ft 800 m
Self-leveling range	±5 degrees electronic servo self-leveling		±14 degrees electronic servo self-leveling		
Grade range	-10 to +15%		-25 to +25%		-25 to +25% X, Y, Z axis
	Single	Dual	Single	Dual	
Grade resolution	0.001% up to 9.999%		0.001% over entire range		
Power source	4 x D-cell NiMH		4 x D-cell NiMH battery pack		
Battery life	28 hr NiMH 90 hr Alkaline		35 hr NiMH 40 hr Alkaline		
Water resistant	Yes				
Size L × W × H	8.3 x 7.1 x 7.9 in (21 x 18 x 20 cm)		9.4 x 5.9 x 11 in (24 x 15 x 28 cm)		
Weight	6.8 lbs (3.1 kg)				
Warranty duration	5 Years		5 Years		5 Years
Wireless Remote Specifications					
Remote Control Type 2-way communication	RC402		RC602		RC603
Battery life	130 hrs continuous 1 year normal use				
Range	330 ft (100 m)				

Pipe Lasers

	DG711	DG511
Grade Range	-15% to +40%	
Self-Leveling Range	Complete grade range (no rough leveling required)	
Line Range	20°	
Line Center	Yes	
Grade Zero & Quick Grade	Yes	
Line Set/Check / Line Alert	Yes	No
Temperature Compensation	Yes	No
Grade Compensation	Yes	
Waterproof	Continuous Submersion at 10 ft (3 m)	
Laser classification / output	3A/3R / 4.5–5 mW (maximum allowable)	
Weight	8.0 lbs (3.6 kg)	
Length	14.75 in (37.5 cm)	
Diameter	5.5 in (14 cm)	
Housing material	Armored Die Casting	Hard Anodized Aluminum
Battery type and life	NiMH / 60 Hours with Daily Setup at 20° C	
Battery pack	Sealed (NiMH), Sealed Removable (Alkaline)	
Warranty Period	5 Years	5 Years
Wireless Remote Specifications		
Functionality	7 Button Power, Line and Grade Adjustment, Line Set	3 Button Power, Line Adjustment
Through the Pipe Range	750 ft (225 m)	
Front / Over the Top Range	500 ft (150 m)	
Rear Range	30 ft (10 m)	
Battery life	3 Years	2 Years

Portable Tools

	LP30 / LP50	LT20	5.2XL	1.3XL	1.5PL	QM55	QM75	QM95
Self-level range	±4° from level	±4° from level	±4° from level	±4° from level	±3° from level	N/A	N/A	N/A
Working range - Visible	100 ft (30 m)	100 ft (30 m)	100 ft (30 m)	100 ft (30 m)	100 ft (30 m)	165 ft (50 m)	230 ft (70 m)	650 ft (200 m)
With Detector	N/A	N/A	250 ft (75 m)	250 ft (75 m)	180 ft (55 m)	N/A	N/A	N/A
Accuracy	1/16 in @ 17 ft 1.5 mm @ 5 m	1/16 in @ 17 ft 1.5 mm @ 5 m	1/16 in @ 17 ft 1.5 mm @ 5 m	1/16 in @ 17 ft 1.5 mm @ 5 m	1/32 in @ 17 ft 1.0 mm @ 5 m	±1/16 in ±1.5 mm	±1/16 in ±1.5 mm	±1/24 in ±1.0 mm
Battery type	2 x AA alkaline	3 x AA alkaline	3 x AA alkaline	4 x AA alkaline	4 x AA alkaline & NiMH recharge	2 x AAA alkaline	2 x AAA alkaline	2 x AA Alkaline
Battery life	20 hours, alkaline	20 hours, alkaline	35/15 hours (point/line beams) 10 hours (all beams on)	4 hours, alkaline 6 hours, rechargeable (all beams on)	> 7 hours all beams on	5000+ readings	8,000 readings	8,000 readings
Dimensions	3.5x4.1x2.4 in 8.9x10.4x6.1 cm	4.3x2.3x4.1 in 11x5.8x10.4 cm	4.5x5.2x3.1 in 11.5x13x8 cm	5.7x5.3x3.9 in 14.4x13.8x10.0 cm	9.5x5.0x4.5 in 24.1x12.7x11.5 cm	2.0x1.1x4.9 in 5.2x2.8x12.5 cm	1.3x1.6x4.9 in 3.4x4.2x12.5 cm	2.4x1.2x4.7 in 6.2x2.8x12.0 cm
Weight	0.69 lb (0.31 kg)	0.8 lb (0.35 kg)	1.1 lb (0.5 kg)	1.8 lb (0.85 kg)	3.5 lb (1.58 kg)	6.6 oz (0.19 kg)	5.0 oz (0.14 kg)	7.7 oz (0.22 kg)
Warranty	3 Years, with instant exchange	3 Years, with instant exchange	3 Years, with instant exchange	3 Years, with instant exchange	1 Year	3 Years, with instant exchange	3 Years, with instant exchange	3 Years, with instant exchange

SPECTRA PRECISION LASER APPLICATIONS	LASER POINTERS	LINE GENERATORS	HANDHELD DISTANCE MEASURING DEVICE	LASER LEVELS	HORIZONTAL VERTICAL LASERS	GRADE & UNIVERSAL LASERS
	<ul style="list-style-type: none"> • LP30 • LP50 	<ul style="list-style-type: none"> • LT20 • 5.2XL • 1.3XL • 1.5PL 	<ul style="list-style-type: none"> • QM55 • QM75 • QM95 	<ul style="list-style-type: none"> • LL100 • LL300 • LL400 • LL500 OPTICAL LEVELS <ul style="list-style-type: none"> • AL20 • AL24 • AL28 • AL32 	<ul style="list-style-type: none"> • HV101 • HV301 • HV301G 	<ul style="list-style-type: none"> • GL412 • GL422 • GL612 • GL622 • GL710 • GL720 • UL633

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, areas, volumes, depths, and heights			✓			

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