

Laser Display Systems for Excavating and Grading

Applications

- Backhoes
- Excavators
- Skid Steer Attachments
- Box Blades
- Dozers
- Trenchers



Getting to Grade Faster Increases Operator and Machine Productivity



Spectra Precision® Laser Display Systems let you spend less time walking the job site ... and more time in the cab being productive. Using a laser display receiver guides the operator to the desired elevation or depth without a grade checker. Your accuracy will improve and your profits will increase. The operator optimizes machine time, effectiveness, and efficiency.

You can use these rugged, highly flexible display systems on a wide range of machines. The receivers are self-contained, portable and easily moved from machine to machine for greater operator and machine efficiency.



Key Features

Versatile, 360-Degree Reception

- Works with all types of rotating lasers and on all types of machinery for fast, no-hassle setup.

Multiple Accuracy Choices

- Offers maximum flexibility to meet jobsite requirements, from rough grading to final finishing.

Adjustable, Ultra-bright LED with Green On-Grade Display

- Provides user selectable, easy-to-see display to match ambient lighting conditions.

Long Battery Life

- Keeps your machine working.

Out-of-Laser Beam Indication

- Selectable on /off indicator directs which way to move and get back in the beam.

Automatic Shut-off

- Conserves battery life when the receiver is not in use.

Low Battery Warning

- Provides advance notice when battery replacement is required to keep workflow moving.

Two-Year Warranty

- Reliability you can count on.

Power Options

- Choose alkaline batteries, nickel metal hydride rechargeable batteries, or a power cord that connects directly to the machine power.

Rugged & Waterproof

- Durable polycarbonate and aluminum die cast housings withstand all weather and construction site conditions. Internal isolating shock mounts protect the electronics.

Easy Installation

- Magnetic and bolt-on masts are available, so no machine welding is necessary. You can be up and running in minutes!

User Benefits

- Allows operator to check grade from the cab; increases productivity and reduces labor
- Reduces rework because material is moved only one time
- Increases overall operator and machine efficiency, saving fuel and time
- Moved easily from one machine to another increasing use from a single receiver
- Works with your rotating laser - as easy to use as the rod mounted laser receiver



Laser Display Systems for Excavating and Grading

CR700 for General Construction, Grading and Excavating

Can be handheld, rod or machine mounted



- Use for general construction, grading and excavating applications
- High, low or on-grade information for grading and excavation applications up to 460 m (1,500 ft) radius
- Super-bright LED display can be easily seen by machine operator in brightly lit conditions
- Magnetic mount for machines and grade rod clamp included for increased versatility
- 200-degree reception for easy visibility of on-grade beam

LR20 for Grade and Depth Control

Ideal for use on mini-excavators and compact machines



- 8-inch, 360-degree laser reception provides large working area and range
- Built in plumb indicator for fast, accurate grade checking in mini-excavator applications
- Super bright grade display with green "on-grade" LEDs provides superior depth/elevation indication
- Push button setup for ease of use and application flexibility
- System package with mini magnetic mount fits in compact carrying case for easy storage and transport
- Center and offset on-grades are ideal for both grading and excavating applications

LR30(W) for General Grading

Used on dozers, backhoes, excavators, and levelers



- Use on grading and excavating equipment including: dozers, graders, scrapers, skid steers and levelers
- Five channels of grade information plus directional and out-of-beam indicator
- Three selectable accuracies meet job tolerances from rough grading to final finishing
- Full 360-degree reception picks up the laser from all directions

LR50(W) for Excavating and Grading

Features built-in blade tilt and excavator boom plumb indicator



- 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

LR60(W) for High Speed Excavating

Features Angle Compensation for Excavating (ACE) for accurate elevation readings without stopping



- Use for general construction, grading and excavating applications
- High, low or on-grade information for grading and excavation applications up to 460 m (1,500 ft) radius
- Super-bright LED display can be easily seen by machine operator in brightly lit conditions
- Built-in plumb indicator for fast, accurate grade checking in excavation applications
- Full 360-degree reception picks up the laser from all directions

Accessories

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.



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 and are adjustable for quick installation and set-up.



DM-20 Bulldozer Bolt-On Mast

The DM-20 is an easy-to-install rigid mast for grading machines. No welding and no drilling/tapping is required for common control-ready machines.



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For detailed specifications and to locate your nearest distributor, visit www.spectraprecision.com
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 SPECTRA PRECISION	LR20	LR30/30W	LR50/LR50W	LR60/LR60W
Display Channels	5-Channels	5-Channels	5-Channels	9-Channels
Accuracy Center on Grade	Fine: 5 mm (0.20 in) Standard: 10 mm (0.40 in) Wide: 20 mm (0.80 in)	Fine: 5 mm (0.20 in) Standard: 12 mm (0.45 in) Wide: 32 mm (1.25 in)	Fine: 5 mm (0.20 in) Standard: 10 mm (0.40 in) Wide: 20 mm (0.80 in)	Setup: 5 mm (0.20 in) Fine: 10 mm (0.40 in) Standard: 20 mm (0.80 in) Wide: 40 mm (1.6 in)
Accuracy Offset on Grade	5-Channels	N/A	Fine: 12 mm (0.50 in) Standard: 25 mm (1.0 in) Wide: 50 mm (2.0 in)	Setup: 6 mm (0.25 in) Fine: 12 mm (0.50 in) Standard: 25 mm (1.0 in) Wide: 50 mm (2.0 in)
ACE	N/A	N/A	N/A	Fine: 12 mm (0.50 in) Standard: 25 mm (1.0 in)
Blade / Tilt Accuracy	N/A	N/A	±0.5°, ±1.5°, ±2.5°	N/A
Plumb / Swing Accuracy	±0.5°, ±1.5°, ±2.5°	N/A	±0.5°, ±1.5°, ±2.5°	Standard: (12 mm 0.5 in) ACE Mode: 25 mm (1.0 in)
Vertical Reception	203mm (8 in.)	171mm (6.75 in)	171mm (6.75 in.)	222 mm (8.75 in)
Compatible with Remote Control		30W	50W	60W
Warranty	2 Years	2 Years	2 Years	2 Years