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Spectra Precision Laser Dealer Confidential

Spectra Precision Laser LR30 Receiver

Rugged 360-degree laser receiver for machine applications

General Description

The Spectra Precision® Laser LR30 Laser Receiver is designed to be used as a stand-alone display receiver for skid-steer loaders, backhoes, excavators, dozers and trenchers. Designed for use in harsh environments, the LR30 is 100% weatherproof and features 360-degree laser detection.

Standard Features

- **Selectable accuracy**—lets you match your application requirements. Using the right accuracy for the job means clearer feedback to the operator and less display "jitter." Work to the tolerances demanded by the job by selecting the correct on-grade accuracy.
- **Selectable on-grade accuracy**—allows configuration of the LR30 to match the job site tolerances.
- **Precise laser strike positions**—for more accurate grade control. Unlike other laser receivers that provide only 5 to 7 fixed relative grade regions, the LR30 laser receiver provides a continuous, absolute laser strike position to precisely measure the actual height deviation from "On Grade." This feature gives you the highest accuracy and grade performance.
- **Designed for construction**—Shock mounted electronics for stable performance and tough aluminum/poly carbonate housing for superior knock and drop protection. Sealed housing and battery chamber is designed and built to the most demanding construction industry standards.
- **Receiving Windows**—include photocells for laser beam reception.
- **Super-Bright LEDs**—are highly visible and can be viewed comfortably in any conditions, including bright sunlight. The green diodes display on-grade information, and the red diodes graphically display high and low information.
- **Touch-Panel**—contains power, deadband, and display-brightness buttons. The panel also displays low-battery warning and deadband selection. Unmarked buttons and button

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combinations provide additional functions. For more information, see the “Operation” section of this guide.

- **Mounting Knobs**—are attached to stainless steel clamps. The large front-facing knobs allow for quick and easy installation to a round pipe, square tubing, or magnetic mount.
- **Access screws**—allow easy access to battery compartment so the batteries can be replaced.
- **Accessory Connector**—accepts the cable to the optional remote display, machine power cable, or automatic control box. The connector also accepts Ni-MH battery charger. A dust cap covers the connector to help keep it clean.

Specifications

FEATURE	SPECIFICATION
Beam Reception Range	360 degrees
Operating Range	Over 460 m (1500 ft) radius, laser dependent
Laser RPM	Minimum: 105; Maximum: 1200
Vertical Reception	171 mm (6.75 in.)
Accuracy: On-Grade Width	Fine: 5 mm (0.20 in.) Standard: 12 mm (0.45 in.) Wide: 32 mm (1.25 in.)
5 Channel Display	High Fine High On-Grade Fine Low Low
Display Output	Bright or Dim
Automatic Control Capability	Yes, with CB25 Control Box
Power Options	Alkaline—4 x "C" Cell—Standard Nickel Metal Hydride—4 x "C" Cell Power Cable—10–30 V dc
Battery Life—Alkaline *(Continuous in beam)*	75 hours, Display Dim 50 Hours, Display Bright
Battery Life—Ni-MH *(Continuous in beam)*	50 hours, Display Dim 40 hours, Display Bright
Battery Recharge Time	3–4 hours
Automatic Shutoff	75 minutes with no laser beam
Out-of-Beam Indication	High and Low, Selectable On or Off
Weight (with Batteries)	2.7 kg (6.0 lb)
Dimensions (LxWxD)	343 mm x 142 mm x 149 mm (13.50 in. x 5.58 in. x 5.88 in.)
Mounting Pipe Round Tube (Outside Diameter) Square Tube	 42 mm to 50 mm (1.66 in. to 2.00 in.) 38 mm (1 ½ in.)
Operating Temperature	-20 °C to +60 °C (-4 °F to 140 °F)

**Specifications subject to change without notice*