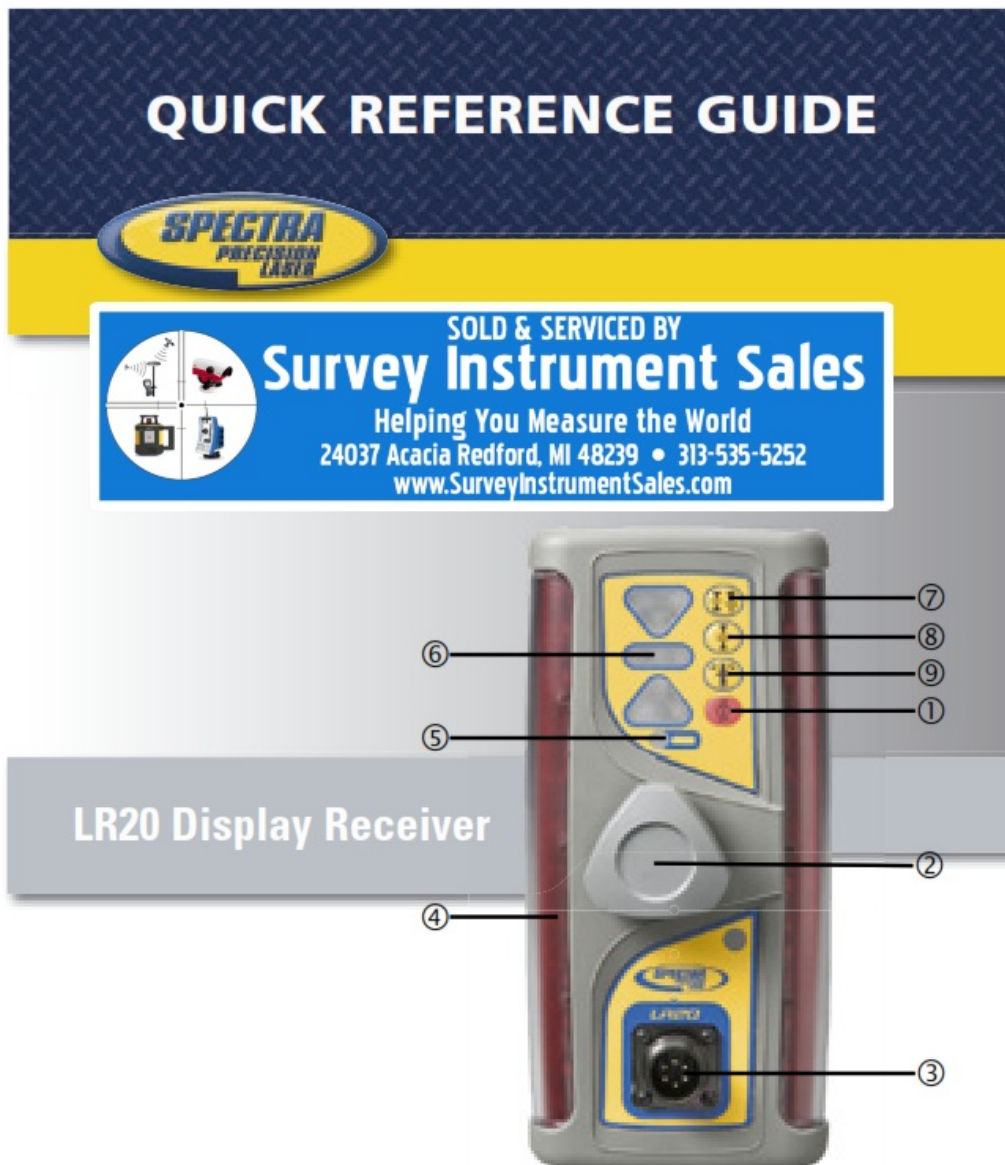




## SPECTRA Laser Machine Display Receiver User Guide

[Home](#) » [Spectra](#) » SPECTRA Laser Machine Display Receiver User Guide



This document describes the functions of the Trimble® LR20 display receiver.

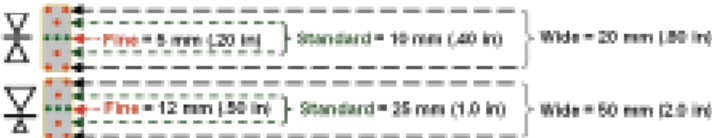
1. **Power on/off** – To turn on the receiver, press for one second. The on-grade light flashes intermittently to verify

- that power is on. To turn off the receiver, press and hold for three seconds.
- Adjustment knob** – Rotate clockwise to tighten and counter-clockwise to loosen.
  - Power connector** – For battery charging, connecting to machine power, or connecting to a control box.
  - Laser receiver window** – Accepts laser strikes to determine elevation position.
  - Battery indicator** – Charged battery: The LED is off. Low battery: The red LED blinks at 1 Hz. Dead battery: The red LED stays on continuously and the four corners blink until there is not enough power to run the unit.
  - Grade display** – Indicates the current correction state: HI, ON GRADE, LOW.
  - Offset on-grade** – Adjusts the on-grade location. Press twice within one second to switch from Normal mode to Excavator mode. Press once to verify operating mode. Normal mode: The on-grade lights illuminate for one second. **Excavator mode:** The top two display lights illuminate for one second.
  - On-grade width** – Adjusts the on-grade accuracy – With a standalone receiver, each button push sequences the receiver through the three available deadbands.
  - Plumb indicator** – Press twice within one second to activate plumb mode. The top two and bottom two display lights will illuminate alternately indicating the mode has been activated. Press once to see what mode you are in. Standard mode: The on-grade lights are illuminated. Plumb mode: The top two and bottom two display lights illuminate alternately. A slow pulse of the display lights indicate the top of the receiver is away from the operator and the receiver is not plumb ( $\pm 2.5^\circ$ ). A fast pulse of the display lights indicate the top of the receiver is towards the operator and the receiver is not plumb ( $\pm 2.5^\circ$ ). To exit the mode, press twice within one second.

Contents [ [hide](#)

- 1 Bandwidth Selections – Center on-grade
- 2 On-grade location
- 3 Documents / Resources
  - 3.1 References
- 4 Related Posts

### Bandwidth Selections – Center on-grade



### On-grade location

Select center for elevation control and offset for depth control.

	On-grade is in the center of the receiver. Center (green lights) appears when there is equal above and below grade information.
	On-grade is nearer the top of the receiver. Center (red lights) appear when there is more a bove-grade information.

### Notices

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) Tdevice may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference

in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications to the equipment not expressly approved by the manufacturer of this equipment could void your authority to operate this equipment under the Federal Communication Commission's rules.

#### Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications. This Class B digital apparatus complies with Canadian ICES-003. Europe This product has been tested and found to comply with the requirements for a Class B device pursuant to **European**

Council Directive 2004/108/EC on EMC, thereby satisfying the requirements for CE marking and sale within the European Economic Area (EEA).

#### Australia and New Zealand

This product has been tested and found to comply with the requirements of the Australian and New Zealand Electromagnetic Compatibility (EMC) standards.

This satisfies the requirements for C-Tick marking and sale within Australia and New Zealand.

**Notice to Our European Union Customers** For product recycling instructions and more information please go to: [www.trimble.com/environment/summary.html](http://www.trimble.com/environment/summary.html). Recycling in Europe: To recycle Trimble WEEE (Waste Electrical and Electronic Equipment), Call +31 497 53 24 30, and ask for the "WEEE Associate". Or, mail a request for recycling instructions to: Trimble Europe BV, c/o Menlo Worldwide Logistics, Meerheide 45, 5521 DZ Eersel, NL




Trimble Construction Division  
5475 Kellenburger Road  
Dayton, Ohio 45424  
USA  
800-538-7800 (Toll Free)  
+1-937-245-5600 Phone  
+1-937-233-9004 Fax









© 2009. Spectra Precision Limited. All rights reserved. This product is protected by US and international copyright, trademark, and patent law as described in "Legal Notices" in the product documentation.  
Version 1.00, Rev B. (July 2009).

## Documents / Resources

	<a href="#">SPECTRA Laser Machine Display Receiver</a> [pdf] User Guide Laser Machine Display Receiver, LR20
---	---

## References

-  [Transforming the Way the World Works | Industrial Technology Solutions](#)
-  [Trimble - Error!](#)
-  [Trimble - Error!](#)
-  [Redirect](#)
-  [Trimble - Error!](#)
-  [Redirect](#)