

Thank you for purchasing this high-accuracy dual-slope horizontal rotary laser. This laser is ideal for critical level measurements, where accuracy can't be compromised.

This tool features:

- Class IIIa long-range laser
- Dual-slope for grading
- Tilt indicator
- Remote control

### Typical Applications Include:

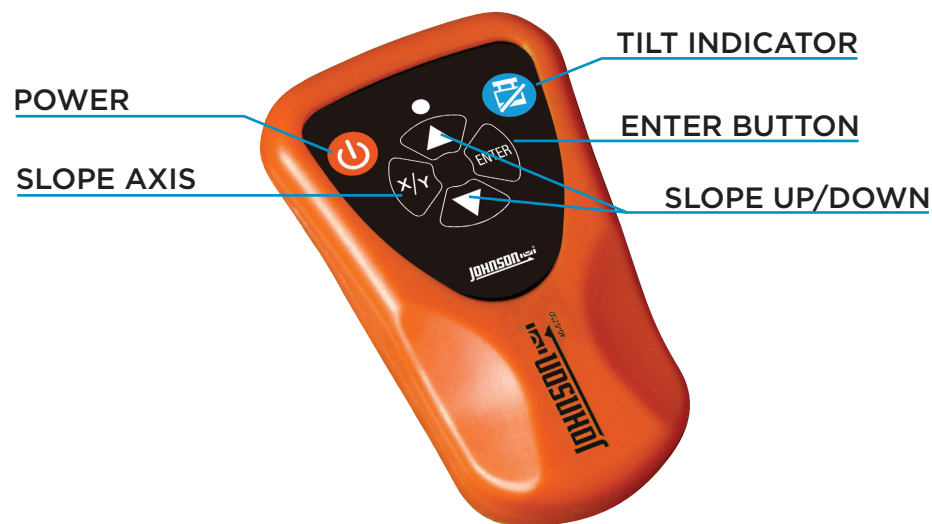
- Setting and leveling concrete formwork
- Grading
- Concrete flatwork







### BUTTON GUIDE

Most functions of this laser are accessed via the remote control - this minimizes disturbances to the laser during operation.

The power and tilt indicator buttons can be accessed from the laser.





### GETTING STARTED

1. Insert batteries into the laser and the remote control.
2. Most functions of the laser require the remote control for operation. Note: The laser will stop receiving remote signals after 30 minutes of inactivity. Press  on the laser to re-enable communication with the remote.
3. Tap  to power on the laser. The laser will self-level and rotate. The laser will flash if out of its self-leveling range. If this occurs, bring the laser within 5° of level and restart it.
4. Tap  to disable or enable the tilt indicator. See the Tilt Indicator section for more information.
5. To power off the laser, tap . The laser will turn off and enter sleep mode for 30 minutes. It can be woken with the remote control or the laser keypad. After 30 minutes, it will stop receiving remote control signals.

### TILT INDICATOR

The tilt indicator disables the laser if it's bumped while operating, preventing you from taking inaccurate measurements.

To enable the tilt indicator:

1. With the laser powered on, press .
2. The Tilt Mode LED will flash for 30 seconds. During this time, the laser will automatically re-level and restart if bumped. This gives you time to make any necessary final adjustments to the laser.
3. After 30 seconds, the Tilt Mode LED will remain on, indicating Tilt Mode is active. Any disturbance to the laser will cause it to stop spinning and flash to alert you.
4. Reset the laser after a tilt event or exit tilt mode by pressing .

For a video quick start guide, scan the QR code to the right:



## DUAL-AXIS SLOPE MODE

Dual-axis slope mode angles the laser beam in X and Y directions, for example when sloping a concrete slab towards an edge or corner.

When in dual-slope mode, the tilt indicator will not be functional. Ensure the laser is not bumped while operating in dual-slope mode.

If desired, you can slope only one axis in dual-slope mode - the other axis will remain fixed level, but if the laser is bumped, it will not automatically re-level.

To enter dual-slope mode:

1. Tap **X/Y** on the remote to start dual-slope mode.
2. The X axis indicator will blink. Use **▲** and **▼** to adjust the slope in the X axis. Tap for minor adjustments, or press and hold for larger adjustments.
3. Tap **X/Y** on the remote to toggle axes and set slope in the Y direction. The Y axis indicator will blink. Use **▲** and **▼** to adjust the slope in the Y axis.
4. If the laser exceeds its slope range, the rotation will stop, the laser will flash, and the alarm will sound. If this happens, reduce the slope in either axis until the laser resumes operation.
5. Exit dual slope mode by holding **X/Y** for 3 seconds. The laser will self level and begin to spin horizontally.

**Pro Tip:** To set a specific slope, use a detector and grade rod. For example to set 1" per 10' slope:

1. Level the laser, and let it spin in horizontal mode.
2. Mark an orthogonal point 10' from the rotary.
3. Find grade with a grade rod. Lower the detector 1".
4. Adjust laser slope until the detector reads "on-grade".
5. Set detector height so that it reads "on-grade" when positioned immediately next to the rotary.
6. Don't make any additional detector height adjustments - The bottom of the grade rod will always read the proper ground level at all locations, consistent with a 1:120 or 1"/10' slope.

## USING A LASER DETECTOR

Laser detectors help you locate the laser beam when you otherwise can't see it with your naked eye, such as in outdoor conditions, high ambient light, and long distances.

Models 40-6535 and 40-6541 both come with Johnson's dual sided laser detector model 40-6715. These models are also compatible with accessory detectors such as Johnson's 40-6590 machine mount detector for mounting to skid steers, excavators, and other similar equipment.

### 40-6715 DETECTOR OPERATION GUIDE

1. Power on the detector by pressing **POWER**.
2. Adjust the sound level and backlight using **VOLUME** and **BACKLIGHT**.
3. Press **ACCURACY** to set the accuracy. Higher accuracy makes for more accurate laser readings, lower accuracy makes it quicker to locate the beam when accuracy is less critical (as in rough excavation).
4. With the detector window facing the rotary laser, move the detector up and down until it crosses the laser beam. It will begin to beep when it locates the beam.
5. Use the arrow on the LCD as a guide - to find grade, move the detector in the direction indicated by the arrow.
6. When the arrow turns into a solid line, and the beeping turns into a solid tone, you have located grade.

