Congratulations on your choice of this Laser Distance Meter. We suggest you read this instruction manual thoroughly before using the instrument and save this instruction manual for future use.

This is a Class II laser tool and is manufactured to comply with CRF 21, parts 1040.10 and 1040.11 as well as international safety rule IEC 285. The laser also complies with EMC Test according to EN61000-6-3; 2001+A11:2004, EN 61000-6-1:2011, EN 61000-4-2, EN 61000-4-3, EN 60825, FCC Test according to PART 15.
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1. Kit Contents

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<th>Description</th>
<th>Qty.</th>
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<tr>
<td>Laser Distance Meter</td>
<td>1</td>
</tr>
<tr>
<td>“AAA” Alkaline Batteries</td>
<td>2</td>
</tr>
<tr>
<td>Wrist Strap</td>
<td>1</td>
</tr>
</tbody>
</table>

2. Features and Functions

- Displays in English or metric units with decimals or fractions (English units only)
- Accuracy of ±5/64” (0.0781”, or 2mm)
- High-speed microprocessor for quick, accurate calculations
- IP 54 protection – sealed from dust and rainwater
3. Safety Instructions

Please read and understand all of the following instructions, prior to using this tool. Failure to do so, may void the warranty.

**DANGER!**

Class II Laser Product
Max. Power Output: \( \leq 1 \text{mW} \)
Wavelength: 640-660nm

**THIS TOOL EMITS LASER RADIATION.**
**DO NOT STARE INTO BEAM.**
**AVOID DIRECT EYE EXPOSURE.**

**ATTENTION**

- Read all instructions prior to operating this laser tool. Do not remove any labels from tool.
- Do not stare directly at the laser beam.
- Do not project the laser beam directly into the eyes of others.
- Do not set up laser tool at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- Do not place the laser tool in a manner that may cause someone to unintentionally look into the laser beam. Serious eye injury may result.
- Do not operate the tool in explosive environments, i.e. in the presence of gases or flammable liquids.
- Keep the laser tool out of the reach of children and other untrained persons.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Always turn the laser tool off when not in use or left unattended for a period of time.
- Remove the batteries when storing the tool for an extended time (more than 3 months) to avoid damage to the tool should the batteries deteriorate.
- Do not attempt to repair or disassemble the laser tool. If unqualified persons attempt to repair this tool, warranty will be void.
- Use only original Johnson\textsuperscript{®} parts and accessories purchased from your Johnson\textsuperscript{®} authorized dealer. Use of non-Johnson\textsuperscript{®} parts and accessories will void warranty.
4. Location/Content of Warning Labels

Error Code Label

The LDM may return an error code during use, as indicated by the display showing “ERR X,” where “X” represents a number from 1 to 6. The error codes are as follows:

1. **Laser Range** – The measurement distance is outside the range listed in the specifications.
2. **Weak Signal** – The reflected laser signal is too weak, either due to high ambient lighting at the target or poor target reflectivity.
3. **Display Range** – The measurement distance, area or volume exceeds the number of units the display is capable of showing.
4. **Low Battery** – The batteries need to be replaced.
5. **Temperature** – The tool is either above the maximum or below the minimum safe operating temperature range.
6. **Ambient Light** – The tool is being used in too bright of an environment to operate properly.

**QR Code**: Use a smartphone to scan the QR code to be taken directly to Johnson Level & Tool’s Operator’s Manual Page.
5. Location of Parts/Components

LCD Screen

Power On / Unit / Measure Button

Tap for:
• Power on the unit
• Measure

Press and hold for:
• Set units of measurement

Power Off / Reference Button

Tap for:
• Adjust the measurement reference

Press and hold for:
• Power off the unit

Laser Emitted Window

Laser Receiving Window
Not all features found on the LCD screen are found in every Johnson Level & Tool Laser Distance Meter. See the notes below for further information.

1. Measurement Reference Position
2. Measuring Mode
3. Memory (recent measurements)*
4. Active Laser Indicator
5. Add and Subtract‡
6. Maximum Display
7. Indirect Measuring Mode
   (Pythagoras Measurements)‡
8. Minimum Display
9. Stake-out Direction Indicator†
10. Main Screen – Current Measurement
11. Countdown Timer*
12. Bluetooth Indicator△
13. Battery Status Indicator
14. Secondary Screens
   (prior 2 measurements)

Notes:
* Feature available in the LDM330 only.
† Feature available in the LDM195 and LDM330 only.
△ Feature found in the LDM130 and LDM330 only.
‡ Feature found in the LDM130, LDM195 and LDM330 only.
‡ Feature found in the LDM130, LDM195 and LDM330 only.
6. Battery Installation

To install batteries in the Laser Distance Meter:
1. Remove the battery cover by lifting the cover straight up from the bottom of the Laser Distance Meter as shown by the arrow in the image to the right.
2. Insert 2 “AAA” batteries into the battery compartment according to the polarity illustrated inside.
3. Replace the battery cover.

Current Battery Status

When the Laser Distance Meter is powered on, a battery icon will briefly display on the LCD screen to indicate the current battery life.

When the battery life is low, the battery icon will automatically display on the LCD screen.

- Battery has 100% power
- Battery has approximately 60% power
- Battery has approximately 25% power
- Battery has approximately 5% power, and new batteries are needed

Notes:
• Use only alkaline batteries.
• Remove the batteries when storing the instrument for an extended time (more than 3 months) to avoid damage to the tool should the batteries deteriorate.
7. Operating Instructions

IMPORTANT: It is the responsibility of the user to ensure proper maintenance of the Laser Distance Meter. Conduct periodic test measurements to ensure the instrument is measuring accurately and consistently. This is most important if the instrument has been exposed to extreme temperatures or moisture. Always confirm accuracy before and during important measurements. Keep the Laser Distance Meter optic lens clean and inspect for damage. The Laser Distance Meter is designed to withstand a drop from 3 feet (1 meter). If dropped from a higher distance, the tool’s calibration may be affected and it should be tested for accuracy.

Power On/Off the Laser Distance Meter

To power on the instrument, press the ▲ button.

To power off the instrument, press and hold the ▼ button for 2 seconds. The instrument will emit a long beep and will turn off.

Automatic Shutoff

Laser will turn off after remaining idle for 2 minutes. Press the ▲ button to re-enable the laser.

Unit will emit a long beep and turn off after remaining idle for 5 minutes.
Units of Measure
The Laser Distance Meter has 7 units of measure.
1. Feet in decimal format (e.g., 6.637 ft)
2. Inches in decimal format (e.g., 79.646 in)
3. Feet and inches in 1/32” (e.g., 6’7” 21/32)
4. Inches in 1/32” (e.g., 79” 21/32)
5. Inches in 1/16” (e.g., 79” 11/16)
6. Inches in 1/8” (e.g., 79” 5/8)
7. Meters (e.g., 2.023 m)

To select a unit of measure before taking a measurement, press and hold the button. The word “Unit” will display in the center of the LCD screen, and the unit of measure will display at the bottom right of the LCD screen, or after taking a measurement, press and hold the button to scroll through the various units of measurement.

Measurement Reference Position
Note: Setting the measurement reference correctly is critical to obtaining an accurate measurement, as it establishes the place where a reading of zero (0) is located. If the wrong reference position is selected, the measurement will be off by the length of the tool (5.7 inches/≈5 3/4”).

The Laser Distance Meter has two reference positions for measurement, which establish the place where a reading of zero (0) is located. When the instrument is first turned on, it will default to the most recently used position.
1. Front of the unit
2. Back of the unit
To select the desired position, press the button. The laser indicator icon at the top left of the LCD screen will display the selected position.

Front of Unit Reference Position  Back of Unit Reference Position

**Single Length Measurement Mode**

1. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target.
2. Keep your position stable and press the button.
3. The measurement will appear on the main display, and the laser will turn off.
4. Press the button again to turn on the laser for your next length measurement.
5. The latest measurement will display on the main LCD screen, while the prior measurement will display above it on the secondary display.
8. Tips from the Pros

- Take more than one measurement in situations where accuracy is critical.
- Take 3-4 measurements from the same position to compare the consistency of each reading.
- To accurately measure objects lacking an inside corner from the rear of the instrument, use a scrap piece of drywall or other flat material to extend the corner. Butt the Laser Distance Meter up to the material (as shown).
- If error message “ERR 2” appears, place a white sheet of paper or reflective tape over the targeted measuring surface to improve the return signal.
- Be aware that when outdoors, the working range of the tool decreases significantly due to ambient light.
- To make the laser beam more visible, aim it down in front of you and then follow it with your eyes as you move it towards the desired target.
9. Care and Handling

- This Laser Distance Meter unit is a precision tool that must be handled with care.
- Avoid exposing unit to shock vibrations and extreme temperatures.
- Remove the batteries when storing the unit for an extended time (more than 3 months) to avoid damage to the unit should the batteries deteriorate.
- Avoid getting the unit wet.
- Keep the laser unit dry and clean, especially the laser output window. Remove any moisture or dirt with a soft, dry cloth.
- Do not use harsh chemicals, strong detergents or cleaning solvents to clean the unit.
10. Troubleshooting Guide

This section is designed to help you diagnose and troubleshoot common problems that prevent the Laser Distance Meter from working properly.

If the Laser Distance Meter returns an ERR code (display shows ERR plus a number from 1 to 6), please refer to Section 4 of this manual for possible resolutions. If your Laser Distance Meter fails to operate in any other way, please refer to the following troubleshooting guide for some suggestions on how to diagnose the problem.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will not turn on</td>
<td>Batteries missing or depleted</td>
<td>Change the batteries</td>
</tr>
<tr>
<td></td>
<td>Polarity reversed</td>
<td>Check battery polarity</td>
</tr>
<tr>
<td>Turns off after a short time</td>
<td>Batteries depleted</td>
<td>Change the batteries</td>
</tr>
<tr>
<td>Measurement seems incorrect</td>
<td>Incorrect reference position used</td>
<td>Set the reference position to the front rear edge of the tool, as appropriate</td>
</tr>
</tbody>
</table>
11. Technical Specifications

Laser Wavelength: 650 nm
Laser Classification: II
Maximum Power Output: ≤1mW
Accuracy: ±5/64” over the full working range
Interior Range: 2” - 100’
Operating Modes: Single
Units: ft, in, m, 1/8”, 1/16”, 1/32”
Bluetooth: No
Angle Sensor: No
Operating Temperature Range: 23°F - 104°F
Storage Temperature Range: -4°F - 160°F
Power Supply: 2 “AAA” alkaline batteries (included)
Battery Life: minimum 10 hours/10,000 measurements
Dimensions: 5.7”x1.3”x 0.9”
Weight: 2.88 oz. including batteries;
          2.13 oz. excluding batteries
IP Rating: IP 54
12. Product Warranty

Johnson Level & Tool offers a two year limited warranty on each of its products. You can obtain a copy of the limited warranty for a Johnson Level & Tool product by contacting Johnson Level & Tool’s Customer Service Department, as provided below, or by visiting our web site at www.johnsonlevel.com. The limited warranty for each product contains various limitations and exclusions.

Do not return this product to the store/retailer or place of purchase. Non-warranty repairs and course calibration must be done by an authorized Johnson® service center or Johnson Level & Tool’s limited warranty, if applicable, will be void and there will be NO WARRANTY. Contact one of our service centers for all non-warranty repairs. A list of service centers can be found on our web site at www.johnsonlevel.com or by calling our Customer Service Department. Contact our Customer Service Department for Return Material Authorization (RMA) for warranty repairs (manufacturing defects only). Proof of purchase is required.

NOTE: The user is responsible for the proper use and care of the product. It is the responsibility of the user to verify the calibration of the instrument before each use.

For further assistance, or if you experience problems with this product that are not addressed in this instruction manual, please contact our Customer Service Dept.

In the U.S., contact Johnson Level & Tool’s Customer Service Department at 888-9-LEVELS.

In Canada, contact Johnson Level & Tool’s Customer Service Department at 800-346-6682.
13. Warranty Registration
Please register within 30 days of purchase. Registering ensures we have your information on file for warranty service even if you lose your receipt, and lets us contact you if there is ever a product recall. We will never sell your information and only send you marketing information if you opt-in.

To register, go to www.johnsonlevel.com/register.

14. Accessories
Johnson® accessories are available for purchase through authorized Johnson® dealers. Use of non-Johnson® accessories will void any applicable limited warranty and there will be NO WARRANTY. If you need any assistance in locating any accessories, please contact our Customer Service Department.

In the U.S., contact Johnson Level & Tool’s Customer Service Department at 888-9-LEVELS.

In Canada, contact Johnson Level & Tool’s Customer Service Department at 800-346-6682.