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> [AquilaPro KL02060 Laser Measuring Tool User Manual](#)

AquilaPro KL02060

AquilaPro KL02060 Laser Measuring Tool User Manual

Model: KL02060

1. INTRODUCTION

This manual provides instructions for the safe and effective use of your AquilaPro KL02060 Laser Measuring Tool. This compact device is designed for accurate distance measurements up to 197 feet (60 meters) with an accuracy of ± 0.078 inches (2mm). It features multiple measurement modes, unit switching, and a USB rechargeable battery.

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before using this product.

- This device is a Class II laser product with a power output of less than 1mW.
- Do not stare directly into the laser beam.
- Do not aim the laser beam at people or animals.
- Do not disassemble or modify the device. Repairs should only be performed by authorized service personnel.
- Keep the device out of reach of children.
- Use only the specified charging method (USB).
- Avoid using the device in explosive atmospheres or near flammable materials.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your AquilaPro KL02060 Laser Measuring Tool.

Field measurement

The real-time measurement mode enables on-the-go calculations from walls and various surfaces as you move

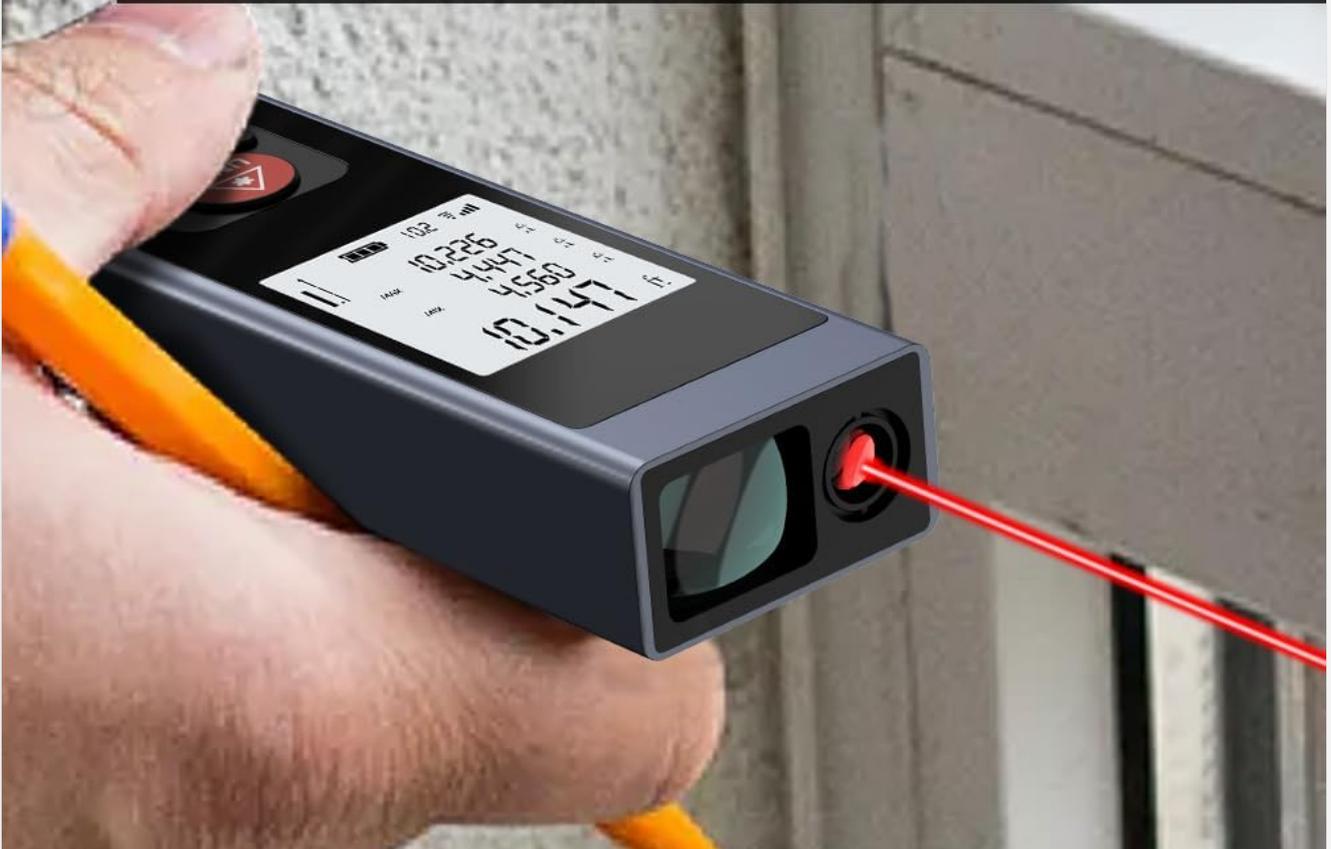


Figure 3.1: Front view of the AquilaPro KL02060 Laser Measuring Tool with key components labeled. Labels include: screen, single measurement/unit switch button, addition/subtraction measurement button, function/front/rear reference button, history/preset value setting button, and power/backlight button.

- **Screen:** Displays measurements, modes, battery status, and other information.
- **Single Measurement / Unit Switch Button:** Initiates a single measurement or cycles through measurement units (m/in/ft).
- **Addition / Subtraction Measurement Button:** Activates addition or subtraction functions for measurements.
- **Function / Front/Rear Reference Button (FUNC):** Cycles through measurement modes (e.g., length, area, volume, Pythagorean) and switches the measurement reference point (front or rear of the device).
- **History / Preset Value Setting Button (PRESET):** Accesses measurement history or sets preset values.
- **Power / Backlight Button:** Turns the device on/off and controls the screen backlight.

4. SETUP

4.1 Charging the Battery

The AquilaPro KL02060 is equipped with a rechargeable Lithium-ion battery. Before first use, fully charge the device.

1. Locate the USB charging port on the device.
2. Connect the device to a standard USB power source (e.g., computer, wall adapter) using the provided USB cable.
3. The battery indicator on the screen will show charging status.
4. Once fully charged, disconnect the USB cable.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on: Press and hold the **Power / Backlight Button**  for approximately 2 seconds.
- To power off: Press and hold the **Power / Backlight Button** for approximately 3 seconds. The device will also automatically power off after a period of inactivity to conserve battery.

5.2 Unit Switching

The device supports measurements in meters (m), inches (in), and feet (ft).

- While the device is on, short press the **Single Measurement / Unit Switch Button** to cycle through the available units. The current unit will be displayed on the screen.

5.3 Benchmark Switching (Front/Rear Reference)

The measurement can be taken from the front edge or the rear edge of the device. The default setting is typically the rear edge.

Toggle front or rear measuring for better accuracy

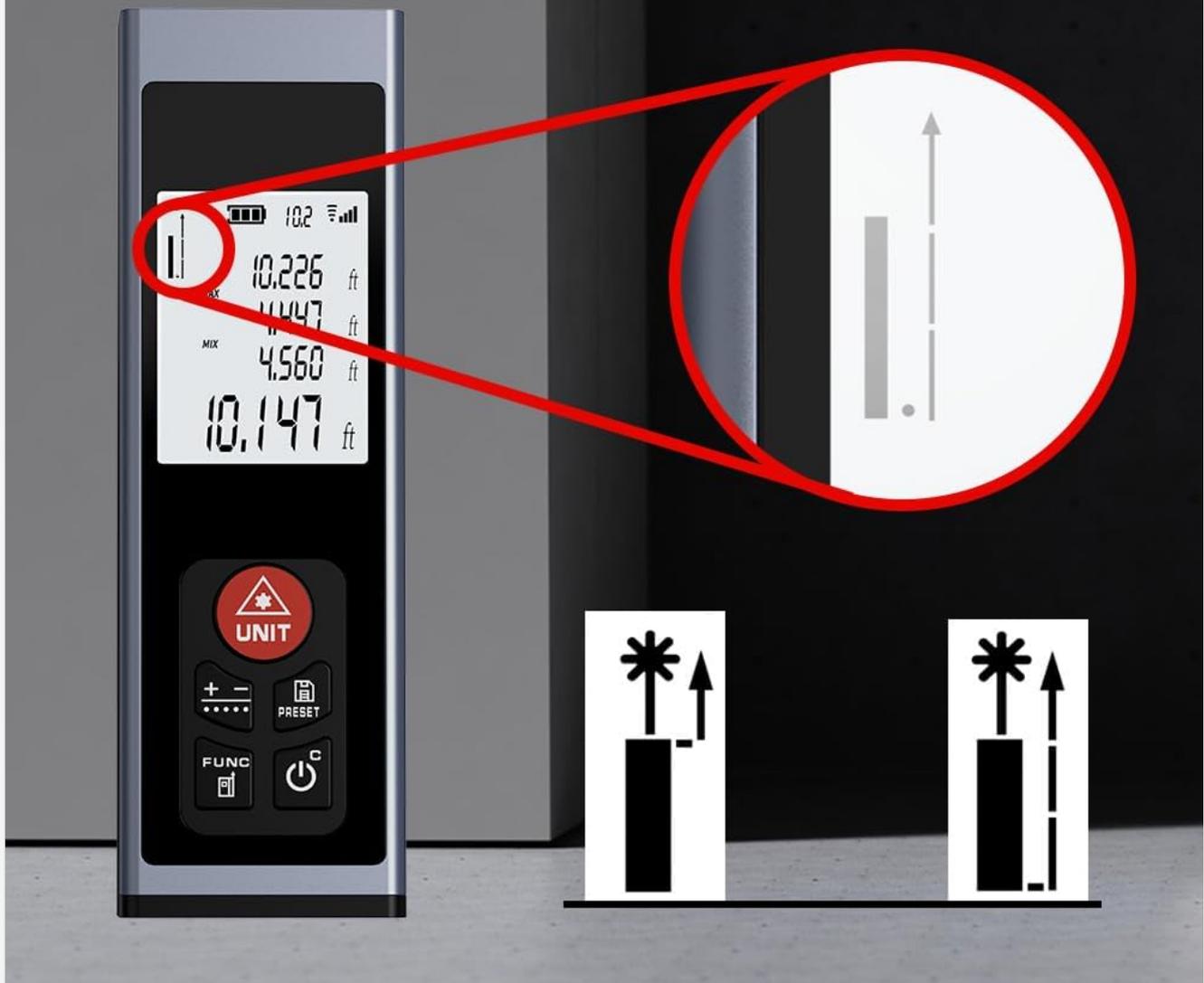


Figure 5.1: Illustration of switching between front and rear measurement reference points. The icon on the screen indicates the active reference point.

- Short press the **Function / Front/Rear Reference Button (FUNC)** to toggle between front and rear reference points.
- An icon on the display will indicate whether the measurement is taken from the front or rear of the device.
- *Front Reference:* Measurement starts from the front edge of the device.
- *Rear Reference:* Measurement starts from the rear edge of the device (includes the length of the device itself).

5.4 Measurement Modes

The AquilaPro KL02060 offers various measurement functions. Press the **Function / Front/Rear Reference Button (FUNC)** repeatedly to cycle through the modes.

Multiple measurement modes

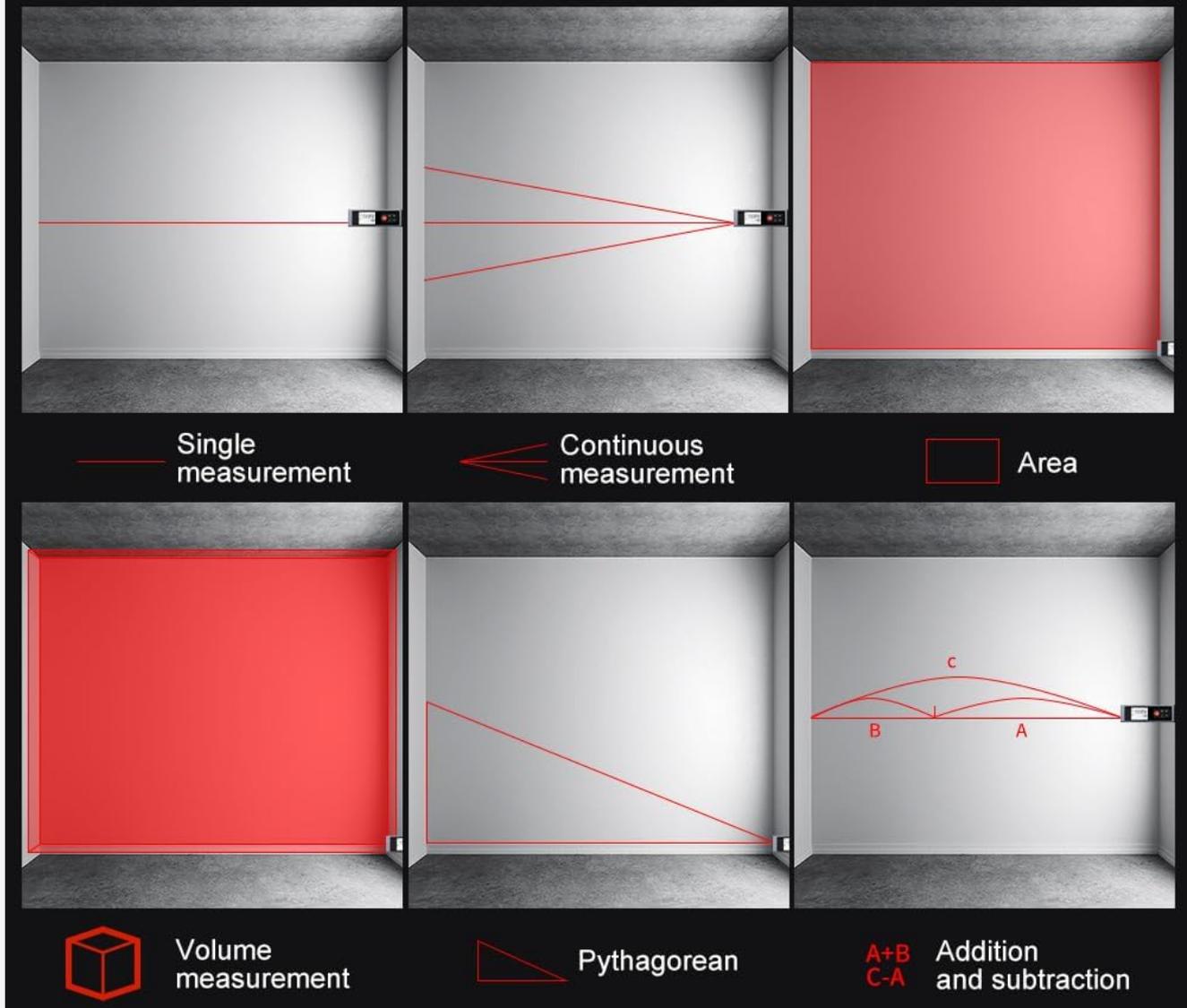


Figure 5.2: Visual representation of the different measurement modes available on the device.

1. **Single Measurement:** Press the **Single Measurement / Unit Switch Button** once to emit the laser, then press again to take a single distance measurement.
2. **Continuous Measurement (Tracking):** In this mode, the device continuously measures and displays the distance as you move it. This is useful for finding minimum/maximum distances or for real-time positioning.
3. **Area Measurement:**
 - a. Select Area mode.
 - b. Measure the length.
 - c. Measure the width.
 - d. The device will automatically calculate and display the area.
4. **Volume Measurement:**
 - a. Select Volume mode.
 - b. Measure the length.
 - c. Measure the width.
 - d. Measure the height.

e. The device will automatically calculate and display the volume.

5. **Pythagorean Measurement (Indirect Measurement):** Used to calculate inaccessible distances using the Pythagorean theorem.

a. Select Pythagorean mode (e.g., two-point or three-point).

b. Follow the on-screen prompts to measure the required sides (hypotenuse and one leg).

c. The device will calculate the unknown leg or height.

5.5 Addition and Subtraction

You can add or subtract measurements directly on the device.



Figure 5.3: Examples of addition and subtraction operations displayed on the device screen.

1. Take your first measurement.

2. Press the **Addition / Subtraction Measurement Button**  to select either addition (+) or subtraction (-).

3. Take your second measurement.

4. The device will display the calculated sum or difference.

5.6 Measurement History and Preset Values

- Press the **History / Preset Value Setting Button (PRESET)** to review previous measurements or to set specific preset values for quick recall. Refer to the on-screen prompts for detailed usage.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser lens and display are kept clean for optimal performance.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.
- **Battery Care:** Recharge the battery regularly, even if the device is not in frequent use, to maintain battery health.

7. TROUBLESHOOTING

If you encounter issues with your AquilaPro KL02060, refer to the following common solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the USB cable.
Inaccurate measurements.	Dirty laser lens; incorrect reference point; unstable surface.	Clean the laser lens; verify the front/rear reference setting; ensure a stable measurement surface.
Laser beam is not visible.	Bright ambient light; device malfunction.	Use in lower light conditions; contact customer support if problem persists.
Display is blank or frozen.	Software error; low battery.	Try restarting the device. Ensure battery is charged.

If the problem persists after attempting these solutions, please contact AquilaPro customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	KL02060
Measuring Range	197 ft (60 m)
Accuracy	±0.078 inch (±2 mm)
Units of Measurement	Meters (m), Inches (in), Feet (ft)
Laser Class	Class II, <1mW
Battery Type	Rechargeable Lithium-ion (included)
Charging Port	USB
Product Dimensions	2.79 x 1.52 x 8.64 cm (approx. 28L x 15W x 86H mm)

Feature	Detail
Item Weight	50 g
Material	Aluminum
Water Resistance Level	Waterproof (IP54 International Protection Rating)
Included Components	Lanyard

9. WARRANTY AND SUPPORT

AquilaPro products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official AquilaPro website.

