

KAIWEETS LR100G

KAIWEETS LR100G Laser Receiver User Manual

Compatible with KAIWEETS KT360A/KT360B Laser Levels

1. INTRODUCTION

Thank you for choosing the KAIWEETS LR100G Laser Receiver. This device is designed to extend the working range of KAIWEETS KT360A and KT360B laser levels, especially in bright outdoor conditions or over long distances. It features dual-sided LED indicators and an adjustable buzzer for precise laser line detection. Please read this manual thoroughly before use to ensure safe and efficient operation.

2. SAFETY INSTRUCTIONS

- Always operate the laser receiver in conjunction with compatible KAIWEETS laser levels (KT360A/KT360B) that have a pulse mode.
- Do not attempt to disassemble or modify the device. This may void the warranty and cause damage.
- Keep the device away from water and excessive moisture to prevent electrical hazards.
- Store the device in a dry, cool place, away from direct sunlight and extreme temperatures.
- Ensure batteries are inserted correctly according to polarity markings. Remove batteries if the device will not be used for an extended period.

3. PRODUCT OVERVIEW

3.1 Components

The KAIWEETS LR100G Laser Receiver package includes:

- 1 x KAIWEETS LR100G Laser Receiver
- 1 x Clamp for mounting
- 2 x AAA Batteries



Figure 1: KAIWEETS LR100G Laser Receiver with its included clamp.

3.2 Specifications

| Feature | Specification |
|---|-------------------------------------|
| Display | Dual LCD screens with LED indicator |
| Leveling Accuracy (High) | ≤ 2 mm |
| Leveling Accuracy (Low) | ≤ 3 mm |
| Laser Reception Window Width | 40 mm (1.57 in) |
| Working Distance | Up to 60m (197 ft) |
| Operating Time | 20 hours |
| Automatic Shut-off (no signal detected) | 10 min |
| Power Supply | 2 x AAA batteries |
| Operating Temperature Range | -10 °C to + 50 °C |
| Storage Temperature Range | -25 °C to + 70 °C |
| Dimensions (LxWxH) | 132 mm × 68 mm × 26 mm |

4. SETUP

1. **Install Batteries:** Open the battery compartment on the back of the receiver and insert 2 AAA batteries, ensuring correct polarity.
2. **Attach Clamp:** Securely attach the provided clamp to the receiver. The clamp allows for mounting the receiver onto a measuring rod or pole.
3. **Prepare Laser Level:** Ensure your KAIWEETS KT360A or KT360B laser level is powered on and set to pulse mode. This is crucial for the receiver to detect the laser beam.



Figure 2: The LR100G receiver is compatible with KAIWEETS KT360A/KT360B laser levels when pulse mode is activated.

5. OPERATING INSTRUCTIONS

1. **Power On:** Press the Power button on the receiver to turn it on. The dual LCD screens will illuminate.
2. **Volume Adjustment:** Use the Volume button to cycle through LOUD, SOFT, or MUTE settings for the audible alert.
3. **Backlight:** Press the Light button to turn the LCD backlight on or off, improving visibility in low-light conditions.
4. **Detecting the Laser Line:**

- Position the receiver in the path of the laser beam. The receiver has detection windows on both the front and back.
- When the laser beam is detected, the LED indicators on the screen will show its position relative to the center mark. An audible alert will also sound if not muted.
- Adjust the receiver's height (by moving it up or down on the measuring rod) until the central indicator on the LCD screen lights up and a continuous tone is heard. This indicates the receiver is precisely aligned with the laser line.
- For fine adjustments, slightly loosen the clamp to move the receiver up or down more easily. Once the laser line is found, tighten the clamp to secure the receiver.

5. **Precision Adjustment:** The receiver offers high and low precision settings. Use the precision button to switch between these modes for more accurate or faster detection as needed.



Figure 3: The LR100G receiver extends the working range of laser levels, making them visible in bright outdoor conditions.



Figure 4: The receiver features level indicator bubbles for quick horizontal alignment and high/low precision adjustment for accurate positioning.

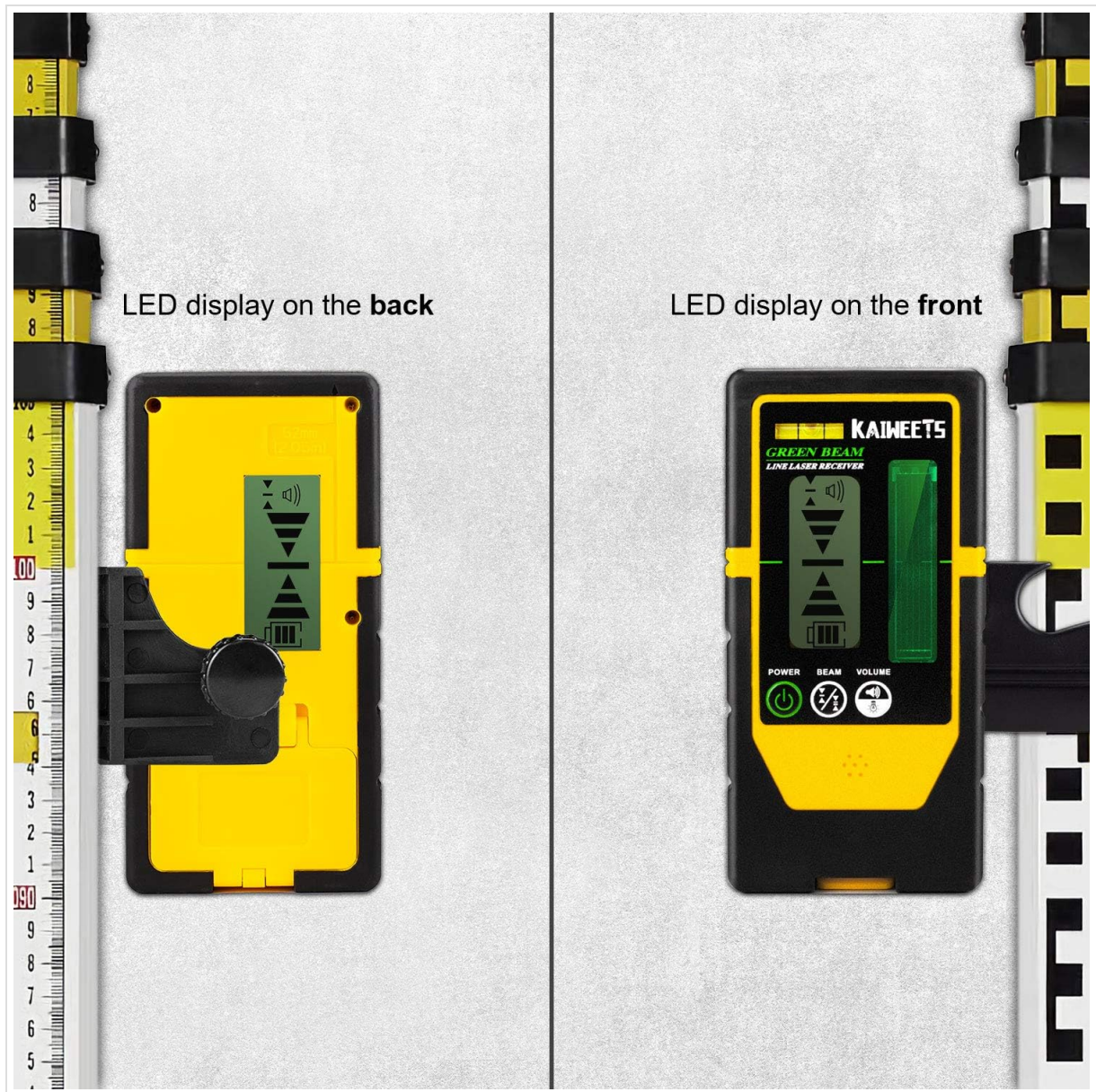


Figure 5: Dual-sided LED displays provide clear visual feedback from any angle.

BUZZER VOLUME



Figure 6: The adjustable buzzer allows users to select Loud, Soft, or Mute volume settings.

6. MAINTENANCE

- Clean the device regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the laser reception windows clean and free from dust or debris to ensure optimal performance.
- Replace batteries when the low battery indicator appears on the LCD screen.
- Store the receiver in its original packaging or a protective case when not in use to prevent damage.

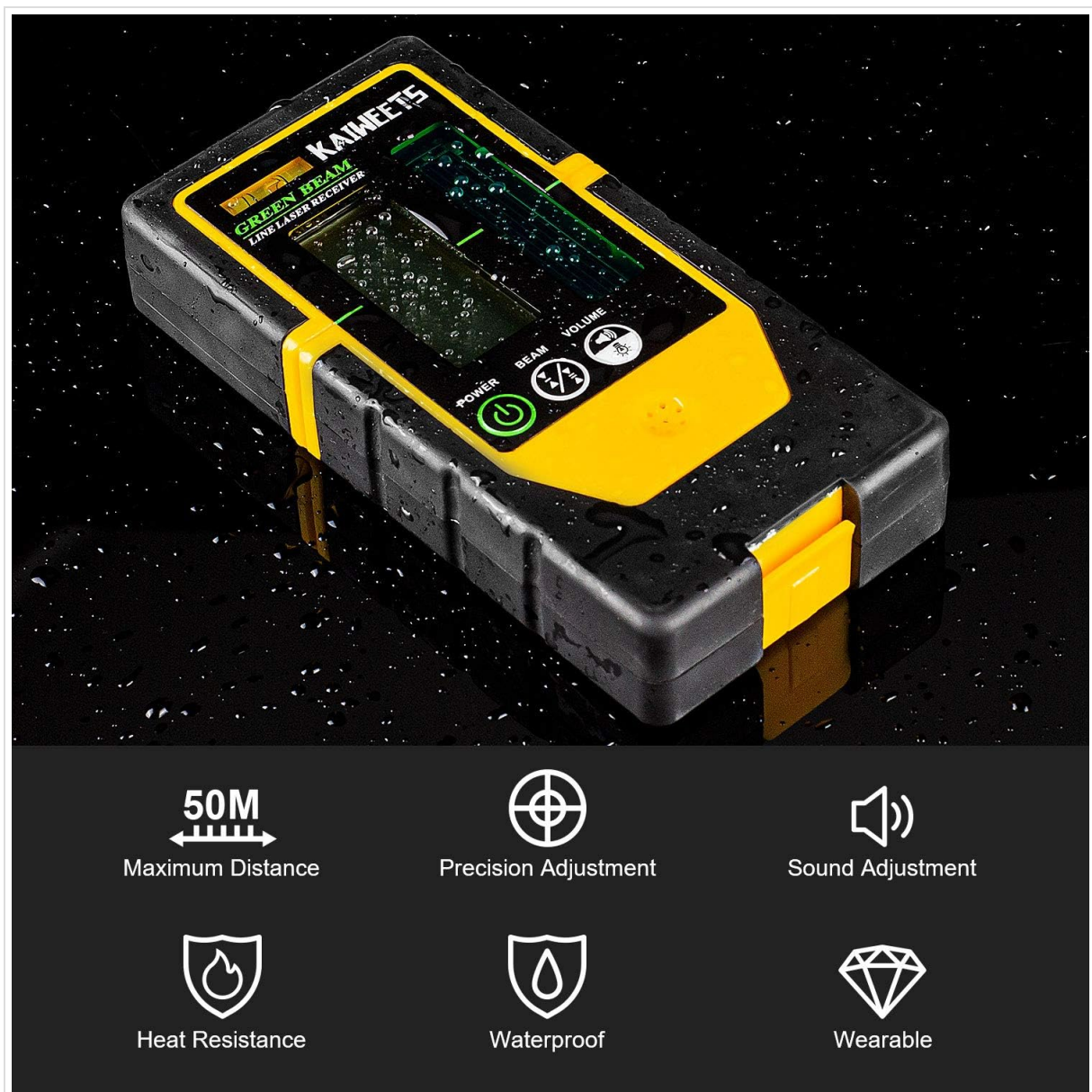


Figure 7: The LR100G is designed for durability, featuring heat resistance, waterproof construction, and a wearable design.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

| Problem | Possible Cause | Solution |
|-----------------------------------|--|---|
| Receiver not detecting laser beam | Laser level not in pulse mode; Batteries low or incorrectly installed; Receiver too far from laser level; Obstruction in laser path. | Ensure laser level is in pulse mode; Replace batteries and check polarity; Move receiver closer to laser level; Clear any obstructions. |
| Inaccurate readings | Dirty reception window; Receiver not stable; Incorrect precision setting. | Clean reception window; Secure receiver firmly with clamp; Switch to high precision mode for finer adjustments. |

| Problem | Possible Cause | Solution |
|---------------------------|--------------------------------------|---|
| No sound from buzzer | Buzzer set to MUTE; Faulty buzzer. | Adjust volume setting to LOUD or SOFT; If issue persists, contact customer support. |
| LCD backlight not working | Backlight turned off; Batteries low. | Press Light button to turn on; Replace batteries. |

8. WARRANTY AND SUPPORT

Thank you for purchasing from KAIWEETS. We offer customers a 3-year service: replacement or repair for all quality issues, and we also provide permanent technical support. For any product quality issues, we will do our best to resolve them for you. If you have any questions regarding KAIWEETS, please contact us via your order, and we will do our best to assist you.