

Metrica 61114

Metrica Incligrad 50 Double Laser Flash Distance Meter User Manual

Model: 61114

[Introduction](#) [Safety](#) [Components](#) [Setup](#) [Operation](#) [Functions & Support](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)

1. INTRODUCTION

Thank you for choosing the Metrica Incligrad 50 Double Laser Flash Distance Meter. This device is designed for precise distance measurements, offering advanced features such as inclination measurement and various calculation modes. Please read this manual carefully before using the device to ensure safe and optimal operation.

2. SAFETY INFORMATION

WARNING: This product contains a Class 2 laser. Do not stare directly into the laser beam. Avoid directing the laser beam at people or animals. Improper use can result in eye injury.

- Always operate the device in accordance with the instructions provided in this manual.
- Do not attempt to modify or disassemble the device. Repairs should only be performed by authorized personnel.
- Keep the device out of reach of children.
- Avoid exposing the device to extreme temperatures, moisture, or direct sunlight for extended periods.
- Use only the specified battery type.

3. PRODUCT COMPONENTS AND OVERVIEW

Familiarize yourself with the main components and display of your Metrica Incligrad 50.



Figure 3.1: Front view of the device, highlighting the display and control panel.



Figure 3.2: Device with active laser beam for distance measurement.

Control Panel:

- **Power/Measure Button (Green Triangle/Circle):** Press briefly to activate the laser for measurement. Press and hold to power on/off.
- **FUN/UNT Button:** Cycles through various functions (e.g., area, volume) and unit settings.
- **+/- Button:** Adds or subtracts measurements.
- **CLR/OFF Button:** Clears the last measurement or powers off the device when held.

4. SETUP

Battery Installation:

1. Locate the battery compartment on the device.
2. Open the compartment cover.
3. Insert the Lithium-ion battery, ensuring correct polarity.
4. Close the battery compartment cover securely.

Powering On/Off:

- **To Power On:** Press and hold the green Power/Measure button until the display illuminates.
- **To Power Off:** Press and hold the CLR/OFF button or the green Power/Measure button until the display turns off. The device also features an automatic shut-off function after a period of inactivity to conserve battery life.

5. BASIC OPERATION

Single Distance Measurement:

1. Power on the device.
2. Point the laser at the target surface.
3. Press the green Power/Measure button briefly. The laser will activate, and the measured distance will appear on the display.

Measurement Reference Point:

The device can measure from its front or rear edge. Ensure you select the correct reference point for accurate measurements. The display typically shows an icon indicating the current reference point.



Figure 5.1: Examples of correct (green check) and incorrect (red cross) measurement techniques.

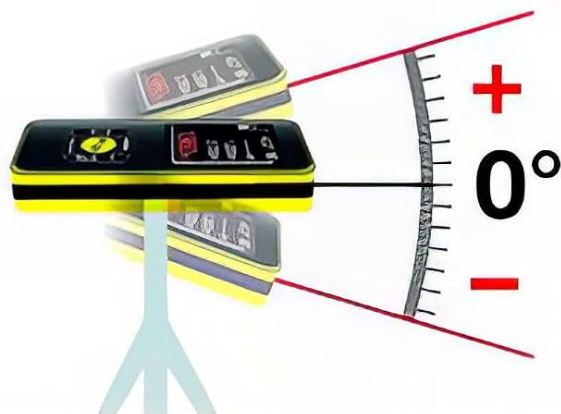
6. ADVANCED FUNCTIONS

The Metrica Incligrad 50 offers several advanced measurement functions.

Inclination Measurement (Incligrad):

This function allows you to measure the angle of inclination relative to the horizontal plane.

INCLIGRAD FUNCTIONS



-4.3°



Figure 6.1: Inclination measurement display, showing the angle in degrees.

Continuous Measurement / Addition ($M_1 + M_2 = M$):

This mode allows for continuous measurement or the addition of multiple segments to calculate a total distance.

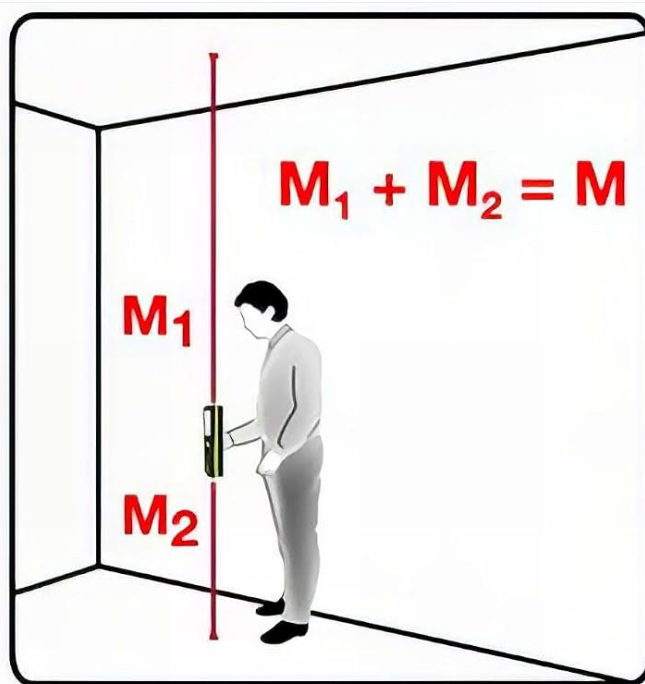
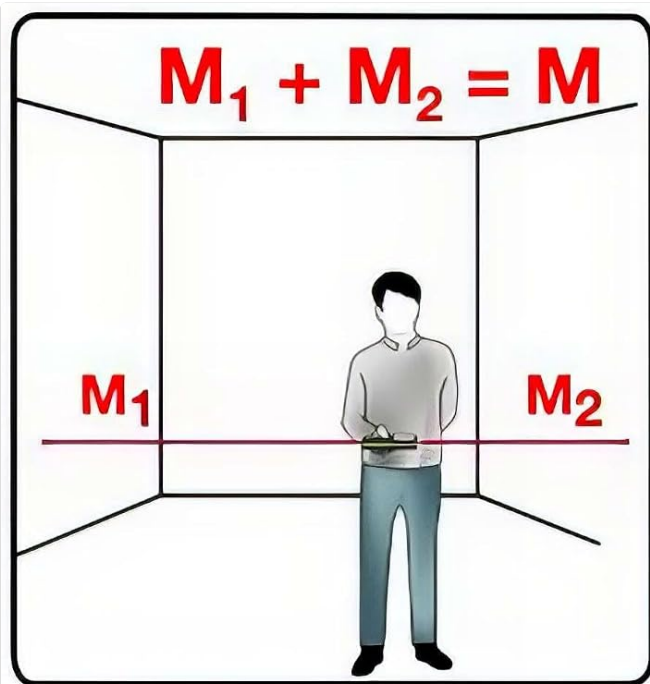


Figure 6.2: Illustration of $M_1 + M_2 = M$ function for cumulative measurements.

Display Rotation:

The device's display can automatically rotate for easier reading when the device is held at different orientations.

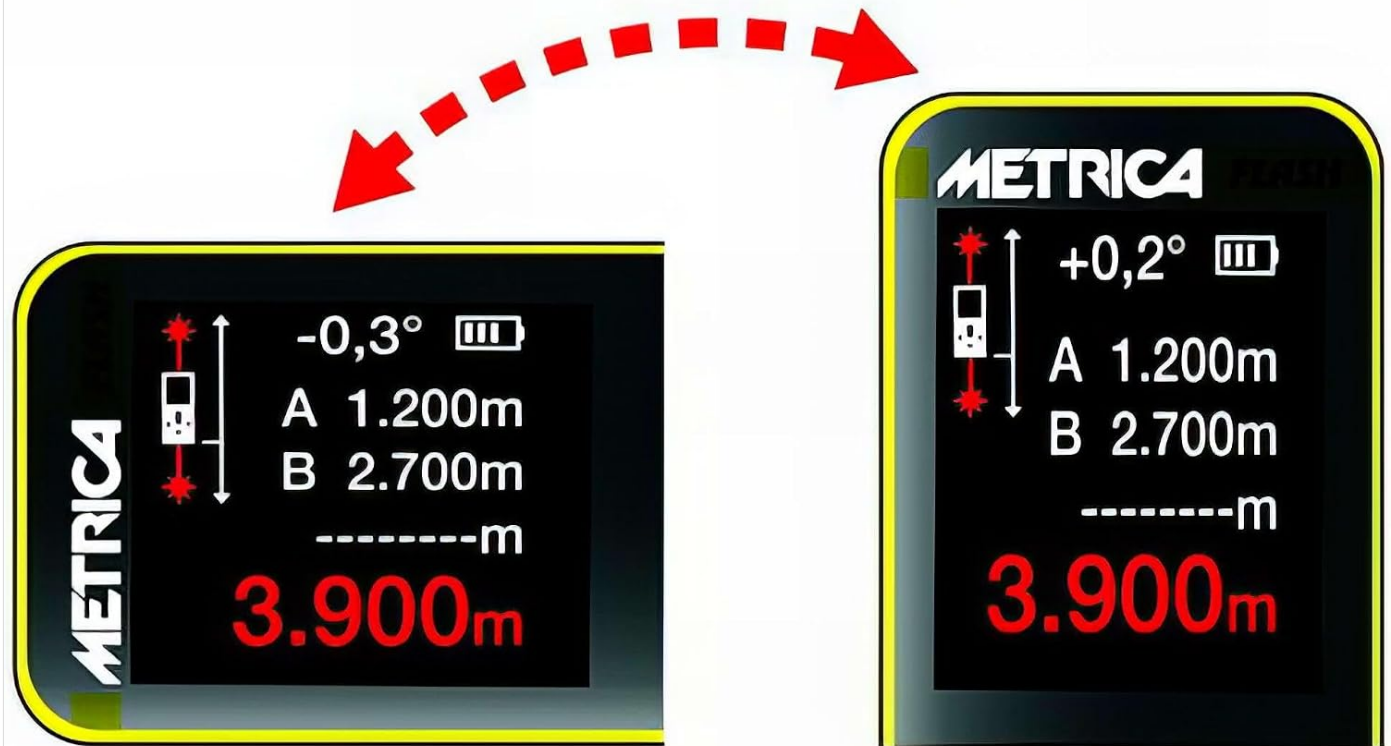
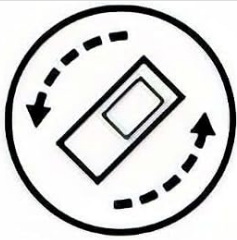


Figure 6.3: Automatic display rotation for improved readability.

Double Laser Measurement:

The Incligrad 50 features a double laser system, allowing for more versatile measurements, including measuring distances between two points without needing to move the device.

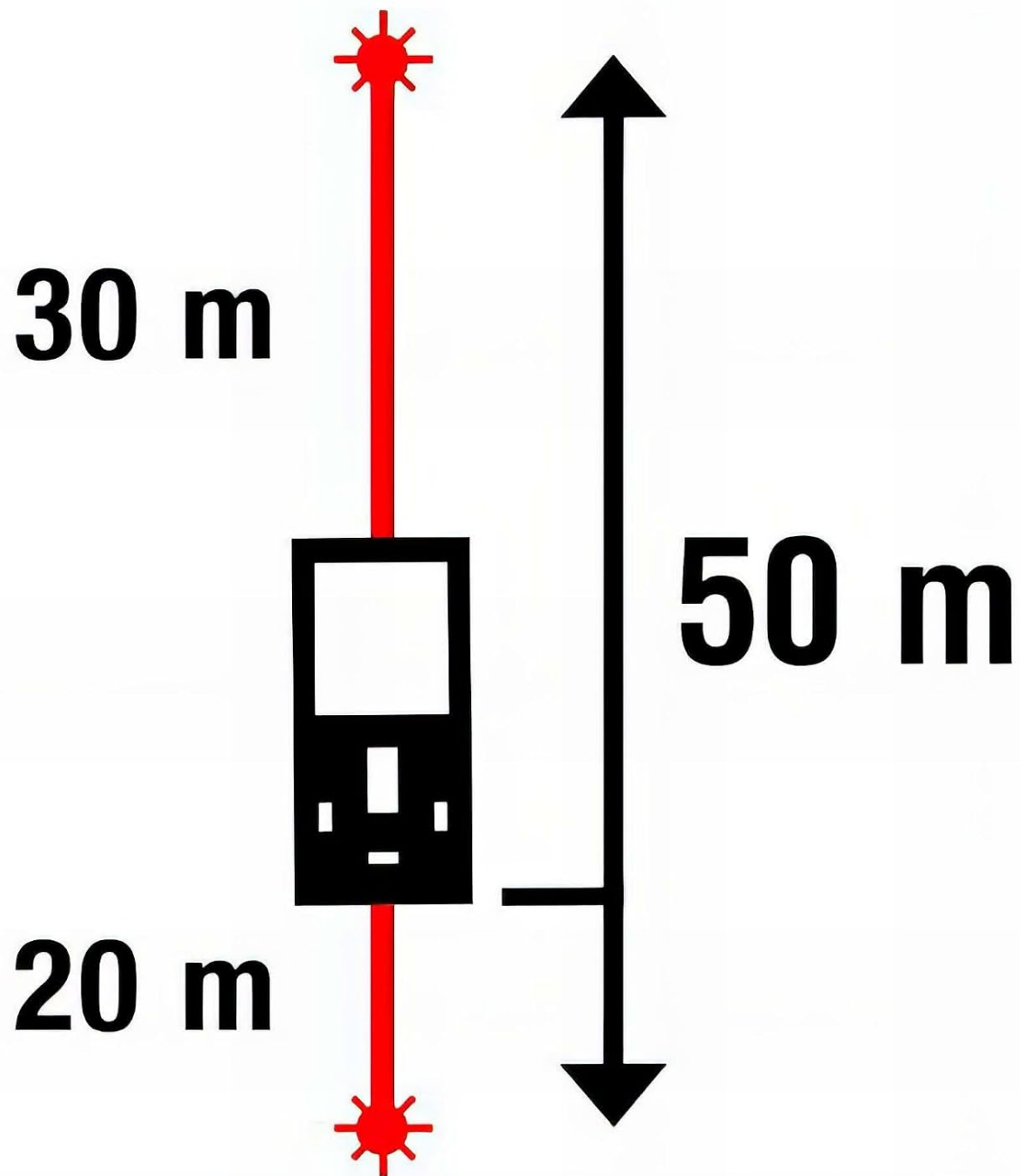


Figure 6.4: Double laser measurement principle, showing two laser points measuring a combined distance.

Measurement Modes Overview:

The device supports various measurement modes, accessible via the FUN/UNT button.

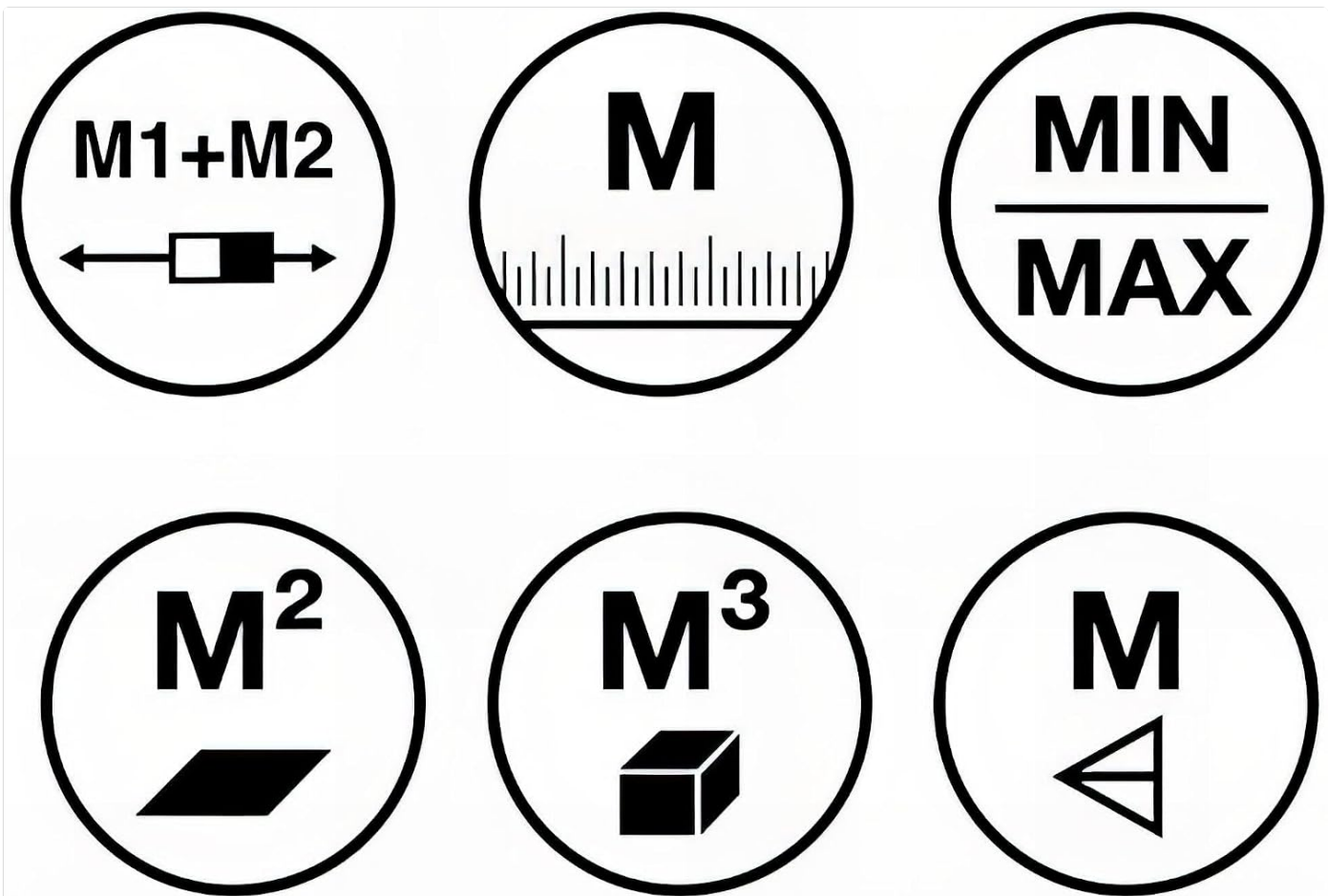


Figure 6.5: Icons representing various measurement functions including addition, linear, min/max, area, and volume.

- **M1+M2:** Adds two measured distances.
- **M (Linear):** Standard single distance measurement.
- **MIN/MAX:** Measures the minimum or maximum distance in continuous measurement mode.
- **M² (Area):** Calculates the area from two measured lengths.
- **M³ (Volume):** Calculates the volume from three measured lengths.

7. MAINTENANCE

Cleaning:

- Use a soft, damp cloth to clean the device's exterior.
- Do not use abrasive cleaners or solvents.
- Clean the laser lens carefully with a soft, lint-free cloth to ensure accurate measurements.

Storage:

- Store the device in a dry, cool place, away from direct sunlight.
- If storing for an extended period, remove the battery to prevent leakage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or incorrectly installed.	Check battery charge and ensure correct polarity. Replace battery if necessary.
Laser does not activate or measurement is inconsistent.	Low battery, dirty laser lens, or device malfunction.	Ensure battery is charged. Clean the laser lens. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Inaccurate measurements.	Incorrect measurement reference point, obstruction, or unsuitable target surface.	Verify the reference point setting. Ensure a clear line of sight to a non-reflective, solid target surface.
Display error message.	Internal error or measurement out of range.	Power off and restart the device. If the error persists, consult customer support.

9. SPECIFICATIONS

Brand: Metrica
Model Number: 61114
Color: Green
Material: Plastic
Battery Type: Lithium-ion (1 x 12V included)
Product Dimensions (L x W x H):0.08 x 0.13 x 0.03 cm
Item Weight: 300 Grams
Measurement Range: Up to 50 meters

10. WARRANTY AND SUPPORT

Metrica products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official Metrica website. For technical support, spare parts, or service inquiries, please contact your local Metrica dealer or customer service center.
Please retain your proof of purchase for any warranty claims.

© 2023 Metrica. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

