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› Metrica 60825 Automatic Rotary Laser Level Instruction Manual

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Metrica 60825 Automatic Rotary Laser Level Instruction Manual

Model: 60825

Brand: Metrica

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Metrica 60825 Automatic Rotary Laser Level. Please read these instructions thoroughly before using the device to ensure proper function and to prevent injury or damage.

The Metrica 60825 is a versatile automatic rotary laser level designed for precise leveling tasks, offering horizontal, vertical, and inclined plane projection, along with a TILT function for enhanced accuracy and stability.

2. SAFETY INFORMATION

WARNING: This device emits a Class 2 laser beam. Avoid direct eye exposure to the laser beam. Do not stare into the beam or view it directly with optical instruments.

- Always operate the laser level in a safe manner, following all local safety regulations.
- Do not attempt to disassemble or modify the laser level. Internal repairs should only be performed by authorized service personnel.
- Keep the device out of reach of children and unauthorized persons.
- Ensure the device is placed on a stable surface or mounted securely before operation.
- Use only the charger and accessories supplied or approved by Metrica.
- Protect the device from extreme temperatures, moisture, and strong vibrations.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Metrica 60825 Automatic Rotary Laser Level
- 1 x Charger
- 1 x Laser Target Plate
- 1 x Scope/Telescope
- 1 x Carrying Case

- 1 x Laser Receiver
- 1 x Stand/Mounting Bracket
- 1 x Wall Mount
- 1 x Remote Control



Figure 1: Complete package contents of the Metrica 60825 Rotary Laser Level.

4. PRODUCT OVERVIEW

The Metrica 60825 is a robust and precise instrument for various leveling and alignment tasks. Its design incorporates a durable housing and an intuitive control panel.



Figure 2: Metrica 60825 Automatic Rotary Laser Level.

4.1 Control Panel

The control panel provides access to all operational functions and displays current settings and status indicators.



Figure 3: Control Panel Detail.

- **LCD Display:** Shows X/Y axis inclination percentages, rotation speed, and battery status.
- **Rotation Speed Button (C):** Adjusts the rotation speed of the laser beam (4 speeds available).
- **Scanner Function Button (A):** Activates the scanning mode, projecting a defined laser line instead of a full rotation.
- **Slope Adjustment Buttons (X/Y, Up/Down Arrows):** Used to manually set inclinations on the X and Y axes.
- **TILT Button:** Activates the TILT function for automatic level monitoring.
- **MRS CAL Button:** Used for calibration and specific settings.

5. SETUP

5.1 Battery Installation and Charging

1. Locate the battery compartment on the device.
2. Insert the rechargeable battery pack, ensuring correct polarity.
3. Close the battery compartment securely.

4. Connect the charger to the device and a power outlet. Allow the battery to fully charge before first use. The display will indicate charging status.

5.2 Mounting the Laser Level

The Metrica 60825 can be used on a stable surface, a tripod, or with the included wall mount.

- **Tripod Mounting:** Secure the laser level to a standard construction tripod using the threaded mount on the base of the unit.
- **Wall Mounting:** Attach the wall mount to a vertical surface using appropriate fasteners. Then, secure the laser level to the wall mount.
- **Placement:** Ensure the device is placed on a firm, level surface to assist the automatic leveling mechanism.

6. OPERATING INSTRUCTIONS

6.1 Powering On and Automatic Leveling

1. Press the power button to turn on the device.
2. The laser level will automatically begin self-leveling. This process is indicated by a flashing laser beam or a specific icon on the display.
3. Once leveled, the laser beam will become steady, and the device is ready for use. If the device is outside its self-leveling range, an alarm may sound, and the laser will flash rapidly. Adjust the device's position until it can self-level.

6.2 Horizontal Operation

For horizontal leveling, place the device upright. The laser will project a 360° horizontal plane.

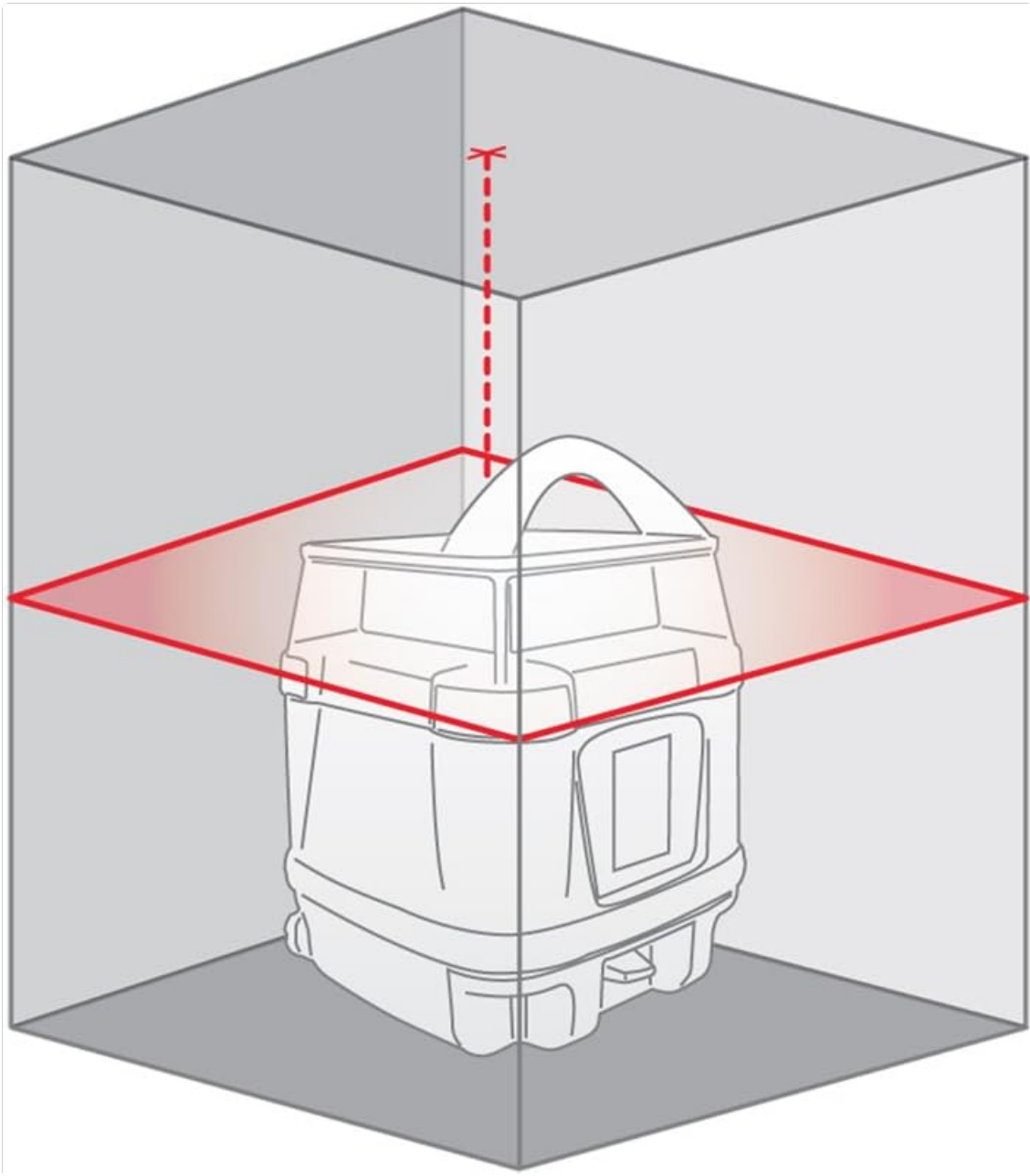


Figure 4: Horizontal Laser Plane Projection.

6.3 Vertical Operation

To project a vertical plane, lay the device on its side using the provided stand or wall mount. The laser will project a 360° vertical plane and a plumb point.

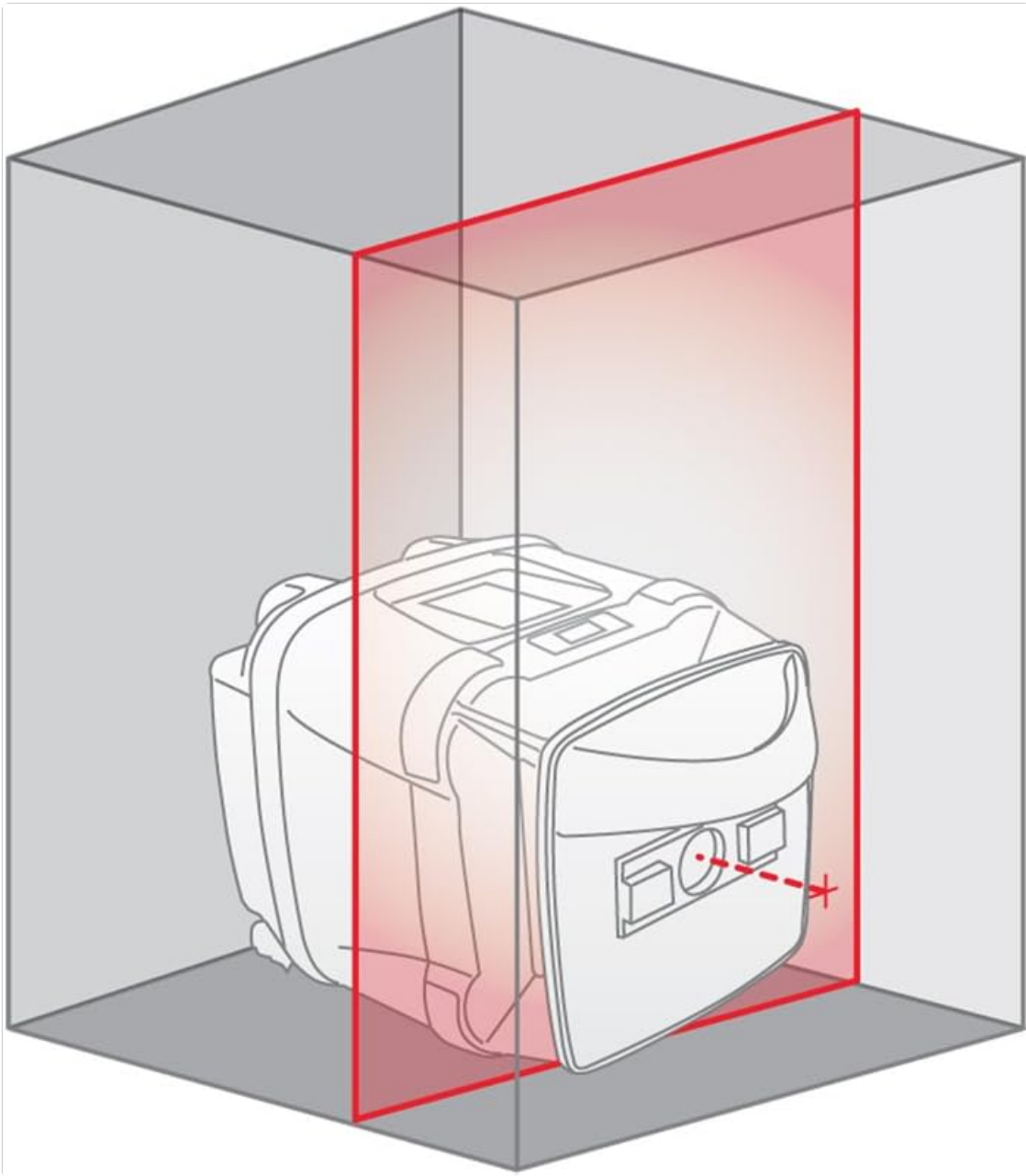


Figure 5: Vertical Laser Plane Projection with Plumb Point.

6.4 Inclined Planes (Double Slope)

The Metrica 60825 supports setting inclinations on both X and Y axes. This is typically done in manual mode or by using the slope adjustment buttons (X/Y, Up/Down Arrows) on the control panel or remote control. Refer to the display for current slope values.

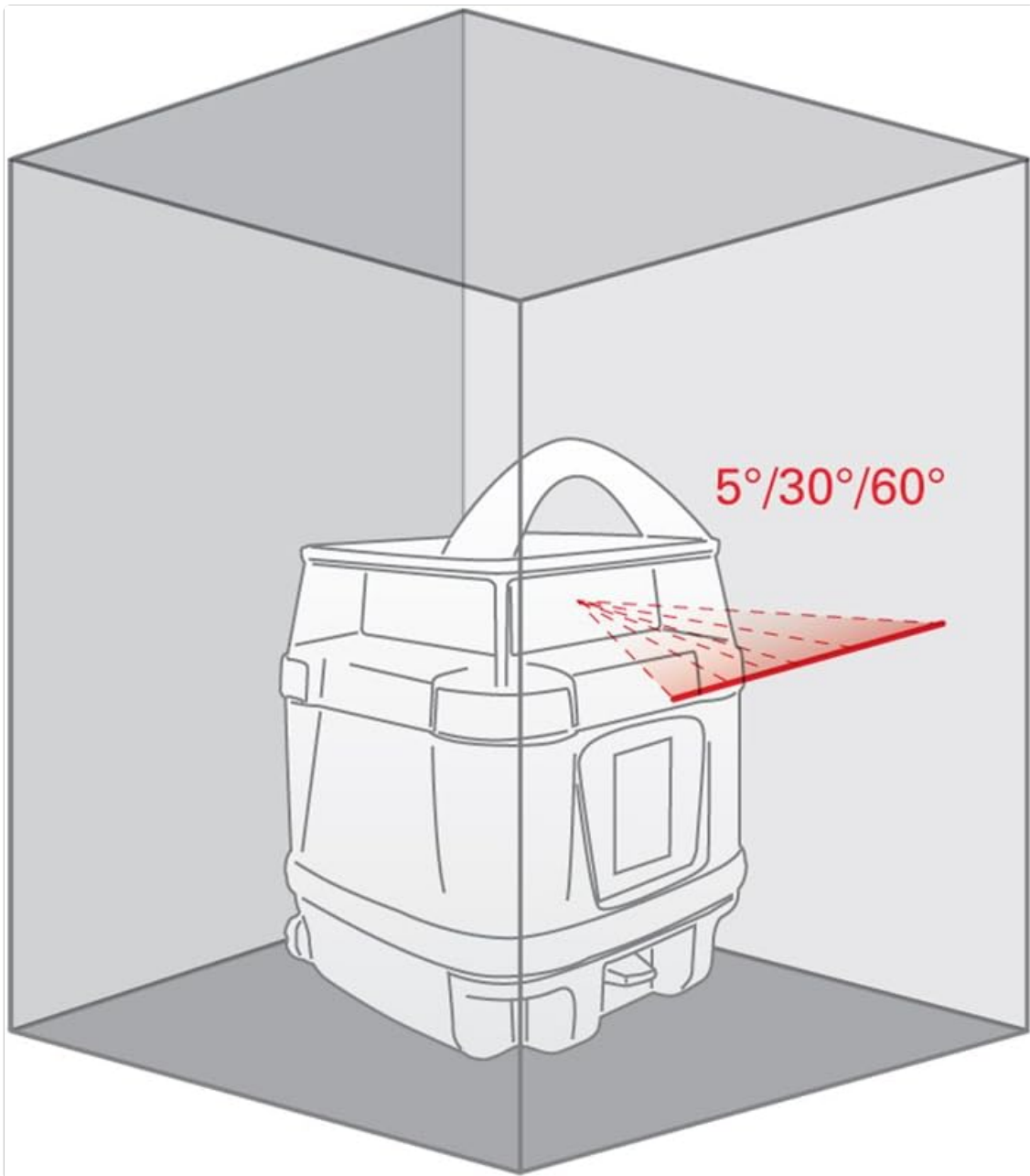


Figure 6: Inclined Laser Plane Projection.

6.5 TILT Function

The TILT function is a safety feature that monitors the level of the device. If the laser level is disturbed or moved significantly after being leveled, the TILT function will activate, stopping the rotation and flashing the laser beam to indicate that the level has been compromised. This prevents inaccurate measurements.

1. After the device has self-leveled, press the TILT button to activate the function.
2. If the device is moved, the TILT alarm will sound, and the laser will stop rotating.
3. To resume operation, re-level the device and press the TILT button again.

6.6 Scanner Function

The scanner function allows you to project a defined laser line (segment) instead of a full 360° rotation. This is useful for working in specific areas or when you want to avoid projecting the laser into unwanted zones.

- Press the Scanner Function button (A) to cycle through different scan angles.
- Use the rotation buttons to position the scanned line as needed.

6.7 Rotation Speeds

The device offers 4 different rotation speeds for the laser beam. Slower speeds provide a more visible line, while faster speeds are better for use with the laser receiver over longer distances.

- Press the Rotation Speed button (C) to cycle through the available speeds.

6.8 Using the Receiver and Remote Control

The included laser receiver extends the working range of the laser level, allowing detection of the laser beam in bright conditions or over long distances. The remote control provides convenient access to all functions from a distance.

- Refer to the separate instructions for the laser receiver and remote control for detailed operation.

7. MAINTENANCE

- **Cleaning:** Clean the device regularly with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the laser exit window is clean for optimal performance.
- **Storage:** Store the laser level and its accessories in the provided carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, charge the battery regularly and avoid deep discharges. If storing for extended periods, charge the battery partially (around 50%) every few months.
- **Calibration:** Regular calibration checks are recommended to ensure accuracy. If you suspect the device is out of calibration, refer to the MRS CAL function or contact authorized service.

8. TROUBLESHOOTING

- **Laser not leveling:** Ensure the device is placed on a relatively stable surface and within its self-leveling range. Check for obstructions.
- **Laser beam flashing rapidly/alarm sounding:** The device is outside its self-leveling range or the TILT function has been triggered due to movement. Adjust the device's position or reset the TILT function.
- **Laser beam not visible:** Check battery level. Ensure the laser exit window is clean. In bright conditions or over long distances, use the laser receiver.
- **Remote control not working:** Check the remote control's batteries. Ensure there are no obstructions between the remote and the laser level's receiver.
- **Short battery life:** Ensure the battery is fully charged. Battery performance can degrade over time; consider replacing if significantly reduced.

For issues not covered here, please contact Metrica customer support.

9. SPECIFICATIONS

- **Model:** 60825
- **Dimensions:** 170 x 170 x 241 mm
- **Operation Mode:** Automatic
- **Laser Type:** Rotary Laser
- **Functions:** Automatic Double Slope, Horizontal, Vertical, Inclined Planes, Plumb, Scanner Function, TILT Function
- **Rotation Speeds:** 4 speeds
- **Ingress Protection (IP) Rating:** IP66 (Dust tight and protected against powerful water jets)
- **Material:** Acrylonitrile Butadiene Styrene
- **Color:** Multicolore (Multicolor)

10. WARRANTY AND SUPPORT

The Metrica 60825 Automatic Rotary Laser Level comes with a manufacturer's warranty of **2 years** from the date of purchase.

This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover damage caused by misuse, unauthorized modifications, accidents, or normal wear and tear. Please retain your proof of purchase for warranty claims.

For technical support, warranty claims, or service inquiries, please contact Metrica customer service through their official website or your local distributor.

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