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Mountlaser HL01 2.5X

Mountlaser HL01 2.5X Precision Hand Level User Manual

Model: HL01 2.5X | Brand: Mountlaser

1. Product Overview

The Mountlaser HL01 2.5X Precision Hand Level is an essential tool for accurate field measurements, designed for surveyors and outdoor enthusiasts. Its robust construction and superior optics ensure reliability and precision in challenging environments. Key features include a very sharp field of view, a 1:32 stadia ratio for accurate distance measurements, and durable etched glass prisms with precision ground lenses.



Figure 1: Front view of the Mountlaser HL01 2.5X Precision Hand Level, showcasing its compact and durable design.

2. Key Features

- **Sharp Field of View:** Provides a crystal-clear view for precise measurements.
- **Stadia Ratio 1:32:** Enables highly accurate distance measurements, suitable for various surveying

applications.

- **Rugged and Durable:** Heavy-duty construction, extending from 5 inches to 7 inches, designed for tough outdoor conditions.
- **Exceptional Optics:** Features etched glass prisms and precision ground lenses for superior optical performance.
- **Easy Maintenance:** Hand-finished for smooth operation with no exposed screws, simplifying cleaning and field reassembly.

3. Components Included

Upon unboxing, verify that all the following components are present:

- 1x Mountlaser HL01 2.5X Precision Hand Level
- 1x Hand Level Case (#8030-00-ORG)
- 1x Instruction Manual (this document)



Figure 2: The HL01 2.5X Hand Level stored within its protective carrying case.

4. Setup

The Mountlaser HL01 2.5X Hand Level is designed for immediate use with minimal setup. It is a manual, hand-held device that does not require batteries or external power sources.

1. **Unpack:** Carefully remove the hand level from its protective case.
2. **Inspect:** Before first use, visually inspect the hand level for any signs of damage to the optics or body. Ensure the level vial is intact and the bubble moves freely.
3. **Familiarize:** Hold the hand level comfortably. Note the eyepiece, objective lens, and the integrated level bubble. The device extends from 5 inches to 7 inches for comfortable handling and sighting.



Figure 3: Dimensions of the HL01 2.5X Hand Level, illustrating its compact size for portability.

5. Operating Instructions

The hand level is used to establish a level line of sight for various surveying and construction tasks.

1. **Hold the Level:** Hold the hand level firmly and steadily at eye level.
2. **Align the Bubble:** Look through the eyepiece. You will see a split image: the target view and the level bubble.

Adjust the tilt of the hand level until the bubble is centered between the two lines in the vial. This indicates a perfectly level line of sight.

3. **Sight the Target:** While keeping the bubble centered, align the horizontal crosshair with the point you wish to level. This point is now at the same elevation as your eye.
4. **Measure Distances (Stadia):** The hand level features a 1:32 stadia ratio. To measure distance, sight a stadia rod. Read the difference between the top and bottom stadia hairs on the rod. Multiply this difference by 32 to get the horizontal distance from your eye to the rod.
5. **Repeat as Needed:** For extended leveling or multiple measurements, reposition yourself and repeat the process.

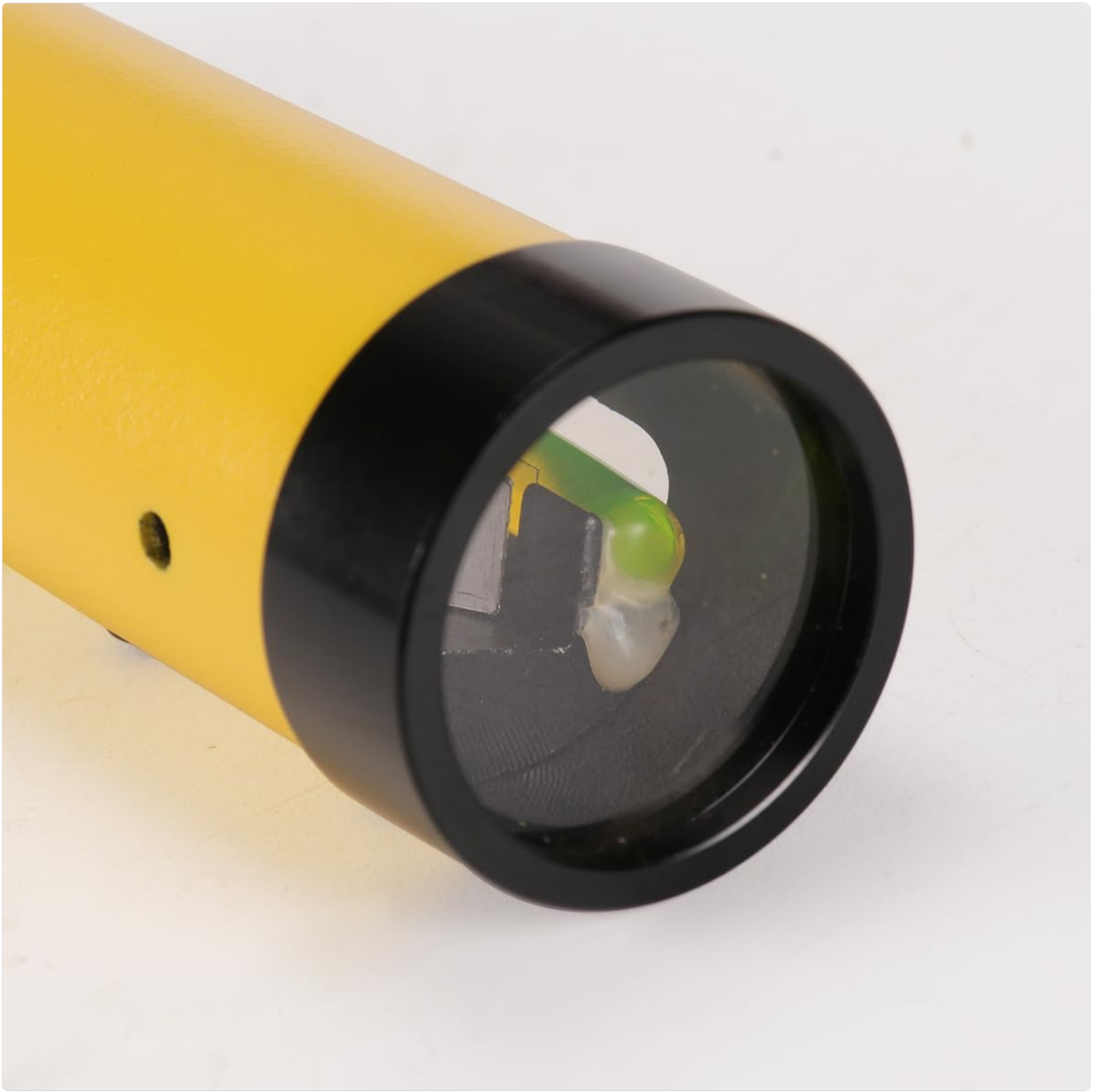


Figure 4: A close-up of the level's optics, showing the integrated bubble vial for precise leveling.

6. Maintenance

Proper care and maintenance will extend the life and accuracy of your hand level.

- **Cleaning:** After each use, especially in dusty or wet conditions, wipe the exterior of the hand level with a soft, damp cloth. For the lenses, use a lens cleaning solution and a microfiber cloth specifically designed for optics.

Avoid abrasive materials that could scratch the lenses.

- **Storage:** Always store the hand level in its provided protective case when not in use. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Reassembly:** The design with no exposed screws makes it easy to clean and reassemble in the field if necessary. Refer to the included instructions for detailed reassembly steps if the unit is disassembled for deep cleaning.
- **Avoid Drops:** While rugged, dropping the hand level can affect its calibration and optical alignment. Handle with care.

7. Troubleshooting

Most issues with the HL01 2.5X Hand Level are minor and can be resolved with simple checks.

Problem	Possible Cause	Solution
Bubble does not center	Hand level is not held steady or level.	Ensure a steady grip and adjust the tilt slowly until the bubble is centered.
View is blurry or unclear	Lenses are dirty or fogged.	Clean lenses with a soft, lint-free cloth and lens cleaner. Allow to acclimate to temperature if fogged.
Inaccurate measurements	Bubble not centered during measurement; incorrect stadia rod reading.	Always ensure the bubble is perfectly centered. Double-check stadia rod readings and calculations.
Physical damage	Impact or mishandling.	Contact Mountlaser support if the device is damaged and requires repair.

8. Specifications

Specification	Detail
Brand	Mountlaser
Model Number	HL01 2.5X
Material	Glass (Lenses/Prisms)
Color	Yellow
Product Dimensions (Extended)	7"L x 5"W (approximate)
Item Weight	0.19 Kilograms (approx. 6.7 ounces)
Operation Mode	Manual
Power Source	Hand-powered (No batteries required)
Stadia Ratio	1:32

9. Warranty and Support

Mountlaser products are designed for durability and precision. For specific warranty information, please refer to the documentation included with your purchase or visit the official Mountlaser store. For further assistance, technical support, or inquiries regarding your HL01 2.5X Precision Hand Level, please contact Mountlaser customer service through their official channels.

Visit the Mountlaser Store for more information and product offerings.

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