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HIKARI HTL-50

Hikari HTL-50 Digital Laser Distance Meter

USER MANUAL

1. Introduction

Thank you for choosing the Hikari HTL-50 Digital Laser Distance Meter. This device is designed for precise and efficient measurement of distances, areas, and volumes using laser technology. Its compact design and user-friendly interface make it an ideal tool for various applications, from home renovations to professional construction projects. This manual provides detailed instructions on how to set up, operate, and maintain your HTL-50 device to ensure optimal performance and longevity.

2. Safety Information

Please read and understand all safety instructions before using the device. Failure to follow these instructions may result in laser exposure, electric shock, fire, or serious injury.

- **Laser Radiation:** This device emits Class 2 laser radiation. Do not stare into the laser beam or direct it at other people. Eye damage may result.
- **Eye Protection:** Always wear appropriate eye protection when operating the device, especially in environments where reflective surfaces are present.
- **Children:** Keep the device out of reach of children.
- **Operating Environment:** Do not operate the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Maintenance:** Do not attempt to modify or disassemble the device. Repairs should only be performed by authorized service personnel.
- **Batteries:** Use only the specified battery type (AAA). Ensure correct polarity when inserting batteries. Remove batteries if the device will not be used for an extended period.

3. Product Overview

Familiarize yourself with the components and display indicators of your Hikari HTL-50.



Figure 3.1: Front view of the Hikari HTL-50 Digital Laser Distance Meter, showing the display, measurement button, function buttons, and power button, with a visible laser beam extending from the top.

3.1. Device Components

- **Laser Aperture:** Emits the laser beam for measurement.
- **Display Screen:** LCD display showing measurements, units, battery status, and function indicators.
- **MEAS Button:** Initiates single or continuous measurements.
- **Function Buttons:** Buttons for selecting measurement modes (distance, area, volume) and accessing memory.
- **Power/Clear Button:** Turns the device on/off and clears current measurements.
- **Battery Compartment:** Located at the rear, for AAA batteries.

3.2. Display Indicators

- **Battery Indicator:** Shows remaining battery life.
- **Measurement Unit:** Displays selected unit (m, ft, in, ft+in).

- **Measurement Mode:** Icons indicating distance, area, or volume measurement.
- **Measurement Value:** Shows the current measurement result.
- **Reference Point:** Indicates whether measurement is from the front or rear of the device.

4. Setup

4.1. Battery Installation

1. Locate the battery compartment cover on the rear of the device.
2. Slide the cover open.
3. Insert two (2) 1.5V AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

The device is now ready for use. The display will illuminate upon pressing the power button.

5. Operating Instructions



Figure 5.1: A hand holding the Hikari HTL-50 Digital Laser Distance Meter, demonstrating its compact size and ease of use in a typical industrial or storage environment.

5.1. Power On/Off

- Press the **Power/Clear** button (*symbol of power icon*) to turn the device on. The display will light up.
- To turn off, press and hold the **Power/Clear** button for approximately 2 seconds. The device also features an automatic power-off function after approximately 2 minutes of inactivity.

5.2. Changing Measurement Units

While the device is on, press the **Unit** button (often integrated with a function button) repeatedly to cycle through available units: meters (m), feet (ft), inches (in), and feet+inches (ft+in).

5.3. Single Distance Measurement

1. Ensure the device is in single distance measurement mode (default upon power on).
2. Point the laser aperture at the target surface.

3. Press the **MEAS** button. The laser will activate, and the measurement will appear on the display within 0.2 to 3 seconds.

5.4. Continuous Measurement (Tracking)

1. From single measurement mode, press and hold the **MEAS** button for approximately 2 seconds. The device will enter continuous measurement mode, displaying real-time distance updates as you move the device.
2. Press the **MEAS** button again to stop continuous measurement. The maximum and minimum values during the continuous measurement will also be displayed.

5.5. Area Measurement

1. Press the **Function** button (often labeled with a square icon) until the area measurement icon appears on the display.
2. Measure the first side (e.g., length) by pressing **MEAS**.
3. Measure the second side (e.g., width) by pressing **MEAS** again. The device will automatically calculate and display the area.

5.6. Volume Measurement

1. Press the **Function** button until the volume measurement icon (often a cube icon) appears on the display.
2. Measure the length by pressing **MEAS**.
3. Measure the width by pressing **MEAS**.
4. Measure the height by pressing **MEAS**. The device will automatically calculate and display the volume.

5.7. Memory Function

The HTL-50 stores the last 20 measurements. To access the memory, press the **Memory** button (often integrated with a function button). Use the arrow buttons (if available, or cycle through with the same button) to scroll through stored values.

6. Maintenance

Proper maintenance ensures the accuracy and longevity of your device.

- **Cleaning:** Use a soft, damp cloth to clean the device casing. Do not use abrasive cleaners or solvents. Clean the laser lens gently with a soft, lint-free cloth.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Avoid Impact:** Protect the device from drops and strong impacts, which can affect its calibration and internal components.

7. Troubleshooting

If you encounter issues with your Hikari HTL-50, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new 1.5V AAA batteries. Check battery polarity.

Problem	Possible Cause	Solution
Inaccurate measurements.	Dirty laser lens; unstable measurement surface; strong light interference; device not held steady.	Clean the laser lens. Ensure target surface is flat and reflective. Avoid direct sunlight or strong light sources. Hold the device steady.
Display shows "Error".	Measurement out of range; poor reflection from target; internal error.	Ensure target is within 0.2m to 50m range. Use a reflective target if needed. Restart the device. If error persists, contact support.
Laser does not activate.	Device in standby; internal malfunction.	Press the MEAS button. If still no laser, restart the device.

8. Specifications

Feature	Specification
Model	HTL-50
Measurement Range	0.2 m to 50 m
Measurement Time	0.2 ~ 3 seconds
Measurement Units	m / ft / in / ft+in
Functions	Single Distance, Continuous Measurement, Area Calculation, Volume Calculation
Memory Storage	20 last measurements
Laser Auto-Off	Approx. 30 seconds
Auto Power-Off	Approx. 2 minutes
Display	LCD with backlight
Protection Level	IP40
Operating Environment	0°C to 40°C (32°F to 104°F), RH ≤ 70%
Storage Environment	-10°C to 60°C (14°F to 140°F), RH ≤ 80%
Battery Type	2 x 1.5V AAA Batteries
Dimensions (H x W x D)	105mm x 34mm x 20mm (Approx. 4.13 x 1.34 x 0.79 inches)
Weight (with battery)	Approx. 65g (0.14 lbs)

9. Warranty and Support

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Hikari website. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: HIKARI

Model: HTL-50

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