**ATuMan LS-P 40m**

# ATuMan LS-P 40m Laser Distance Meter User Manual

Model: LS-P 40m | Brand: ATuMan

## 1. INTRODUCTION

The ATuMan LS-P 40m Laser Distance Meter is a high-precision, portable device designed for accurate and reliable measurements. It integrates multiple functions including distance, area, volume, angle, and Pythagorean measurements, making it a versatile tool for various applications.

Key features of this device include:

- High precision for accurate and reliable measuring.

- 11 functions controlled with two intuitive keys.

- Supports up to 3500 measurements on a single charge.

- Capable of volume, angle, area, and distance measurements.

Figure 1: Front view of the ATuMan LS-P 40m Laser Distance Meter, displaying its screen and single control button.

## 2. Setup

### 2.1 Charging the Device

The LS-P 40m is equipped with a built-in Lithium Ion battery. Before first use, or when the battery indicator shows low power, charge the device using the provided USB cable.

1. Connect the small end of the USB cable to the charging port on the side of the device.

2. Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer's USB port.

3. The charging indicator on the screen will show the charging status. A full charge supports approximately 3500 measurements.

Figure 2: The LS-P 40m device connected to a USB cable for charging, highlighting its USB flash charging capability.

## 2.2 Powering On/Off

- To power on: Press and hold the main button until the screen illuminates.
- To power off: Press and hold the main button until the screen turns off. The device also features an automatic power-off function after a period of inactivity to conserve battery.

## 3. OPERATING INSTRUCTIONS

The LS-P 40m features a simple two-key control system for all its 11 functions. The primary button is used for measurements and mode selection, while the secondary button (if present, or a long press of the primary) is for switching modes or clearing data.

Figure 3: Overview of the device's capabilities, emphasizing its high precision, 11 functions, and long battery life for up to 3500 measurements.

## 3.1 Basic Distance Measurement

1. Ensure the device is powered on and in basic distance measurement mode (usually the default).

2. Point the laser beam at the target surface.

3. Press the main button once to activate the laser.

4. Press the main button again to take the measurement. The distance will be displayed on the screen.
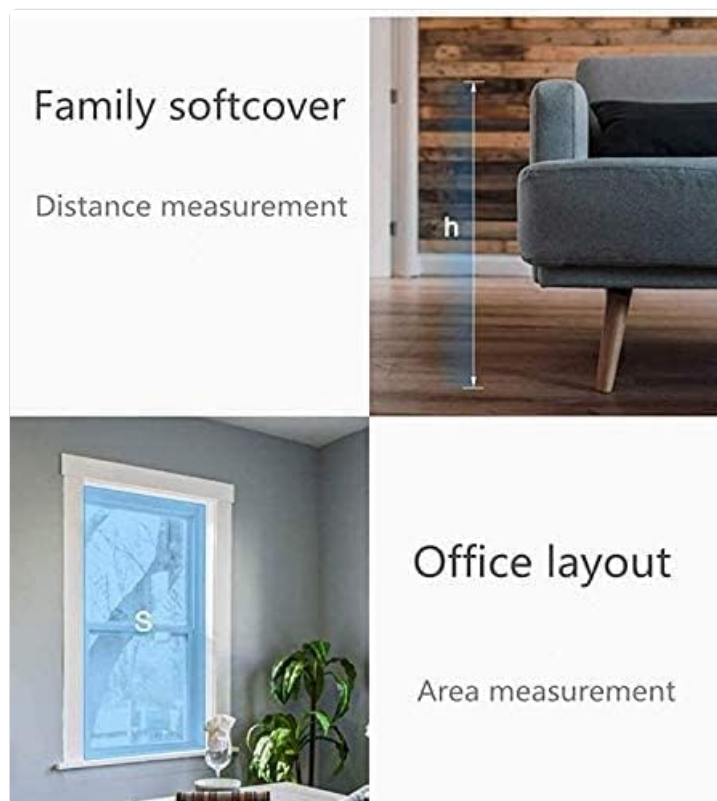


Figure 4: Examples of practical applications, including distance measurement for furniture and area measurement for a window.

## 3.2 Area Measurement

1. Switch to Area Measurement mode. This is typically done by pressing the mode button until the area icon appears on the screen.
2. Measure the length of the first side (e.g., width) by pointing the laser and pressing the main button.
3. Measure the length of the second side (e.g., height) by pointing the laser and pressing the main button.
4. The device will automatically calculate and display the area.

## 3.3 Volume Measurement

1. Switch to Volume Measurement mode.
2. Measure the length, width, and height sequentially as prompted by the device's display.
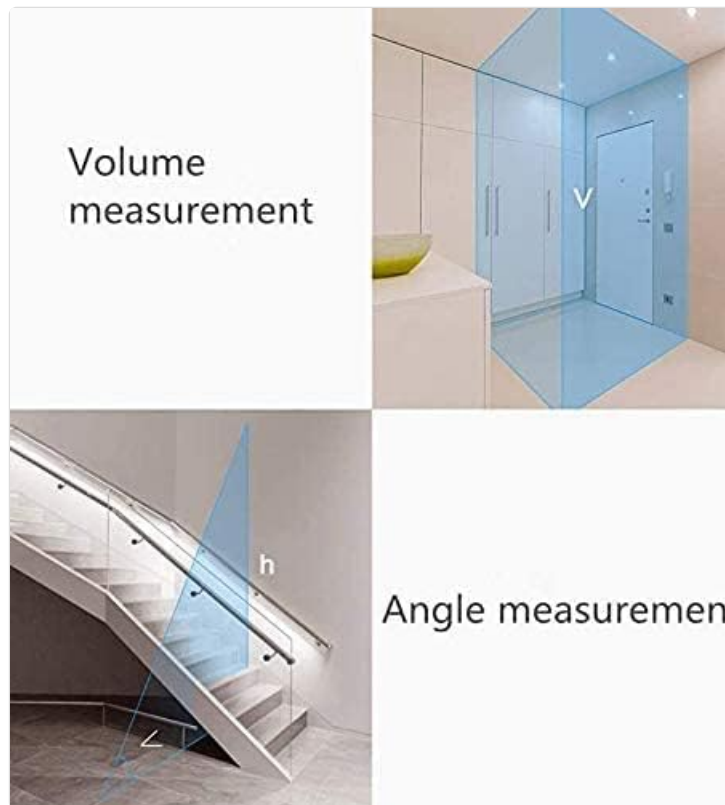3. The device will automatically calculate and display the volume.



Figure 5: Visual representations of volume measurement within a room and angle measurement on a staircase.

## 3.4 Angle Measurement

1. Switch to Angle Measurement mode.
2. Follow the on-screen prompts to measure the necessary points to determine the angle.
3. The calculated angle will be displayed.

## 3.5 Pythagorean Measurement

The device supports various Pythagorean modes (e.g., single Pythagorean, double Pythagorean) to calculate indirect measurements. Refer to the on-screen icons for specific prompts for each Pythagorean function.

1. Select the desired Pythagorean mode.
2. Measure the required sides as indicated by the flashing segments on the display.
3. The device will calculate and display the unknown side.

## 4. MAINTENANCE

## 4.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the laser lens and display are clean for optimal performance. Use a lens cleaning cloth if necessary.

## 4.2 Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- The device features an aluminum-magnesium alloy casing for durability, but it should still be protected from drops and impacts.



Figure 6: A detailed view of the device's robust aluminum-magnesium alloy casing, designed for durability.

## 4.3 Battery Care

- Charge the battery regularly, even if the device is not in frequent use, to maintain battery health.
- Avoid completely draining the battery before recharging.
- If storing for an extended period, charge the battery to approximately 50% before storage.

## 5. TROUBLESHOOTING

### 5.1 Device Not Powering On

- Ensure the battery is sufficiently charged. Connect the device to a USB charger and allow it to charge for at least 30 minutes before attempting to power on again.
- Press and hold the power button for several seconds to ensure proper power-on attempt.

### 5.2 Inaccurate Measurements or Laser Not Visible

- Ensure the laser lens is clean and free from dust or smudges.
- Measurements taken in bright sunlight or on highly reflective/absorbent surfaces may be less accurate or difficult to obtain. Try to measure in shaded areas or use a target plate if available.
- Verify that the measurement reference point (front or rear of the device) is correctly set for your application.

### 5.3 Short Battery Life

- Ensure the device is fully charged before use.

- Frequent use of the laser or backlight can consume battery faster.
- Battery performance can degrade over time. If battery life significantly shortens, consider contacting customer support.

# 6. SPECIFICATIONS

| Feature | Detail |
|---|---|
| Model Number | LS-P 40m |
| Brand | ATuMan (Manufacturer: DUKA) |
| Color | Grey |
| Material | Metal (Aluminum-magnesium alloy casing) |
| Battery Type | Lithium Ion (1 Lithium Polymer battery included) |
| Measurements per Charge | Approximately 3500 |
| Functions | Distance, Area, Volume, Angle, Pythagorean (11 total functions) |
| Package Dimensions | 13 x 6.9 x 2.1 cm |
| Item Weight | 60 g |

Figure 7: The compact size of the LS-P 40m, demonstrating its portability as it fits into a shirt pocket.

## 7. WARRANTY AND SUPPORT

Specific warranty details are not provided in the product information. For warranty claims, technical support, or service inquiries, please contact the seller or manufacturer directly through their official channels. Keep your purchase receipt as proof of purchase.