

Saras LI1

Saras AtuMan DUKA LI1 Digital Angle Finder Laser Protractor User Manual

Model: LI1

1. INTRODUCTION

The AtuMan DUKA LI1 is a versatile digital angle finder and laser protractor designed for precise measurement and leveling tasks. This compact and lightweight device integrates an inclinometer, protractor, level, and bevel gauge, offering 3600 measurement capabilities. Equipped with a dual LED screen for clear readings and a single-sided laser line for accurate projection, it is an essential tool for professionals and DIY enthusiasts alike. Its durable aluminum construction and IP54 protection ensure reliability in various working environments.

2. SAFETY INFORMATION

WARNING: Laser Radiation

- This device emits Class II laser radiation (660nm wavelength). Do not stare directly into the laser beam.
- Avoid direct eye exposure to the laser beam.
- Do not disassemble or modify the device. Unauthorized modifications can result in hazardous laser exposure.
- Keep the device out of reach of children.
- Use the device only for its intended purpose as described in this manual.

Always ensure a safe working environment and follow all local safety regulations when using laser measuring tools.

3. PRODUCT OVERVIEW AND FEATURES



The DUKA LI1 Digital Angle Finder mounted on its adjustable bracket, displaying angle measurements on its dual LED screen. This image highlights the device's compact design and clear display.



The DUKA LI1 projecting a red laser line, demonstrating its laser line casting capability. The display shows angle readings, indicating its use for precise alignment and leveling.

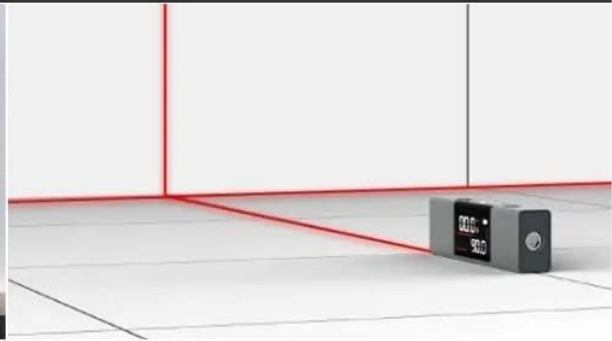
Key Features:

- **Portable & Lightweight:** Pocket-sized design (70g, 20mm thin) for easy portability and integration with other tools.
- **Easy to Read:** Features a dual LED digital screen for clear and bright display of measurement values, even outdoors.
- **Multi-functional:** Operates as an inclinometer, protractor, level, and bevel gauge with a 360-degree rotation range for diverse applications.
- **Durable Construction:** Made from robust aluminum, offering IP54 water, dust, and shock resistance.
- **Long Battery Life:** Equipped with a built-in 730mAh rechargeable lithium battery and a Type-C charging port for extended cordless use.
- **Accurate Measurement:** Features a single-sided laser line for superior precision, with an error margin controlled within 10.50.

One machine for multiple uses
Good helper for life and work



Angle
Leveling



Laser
Line Projection



Professional
Use



Home
Helpers

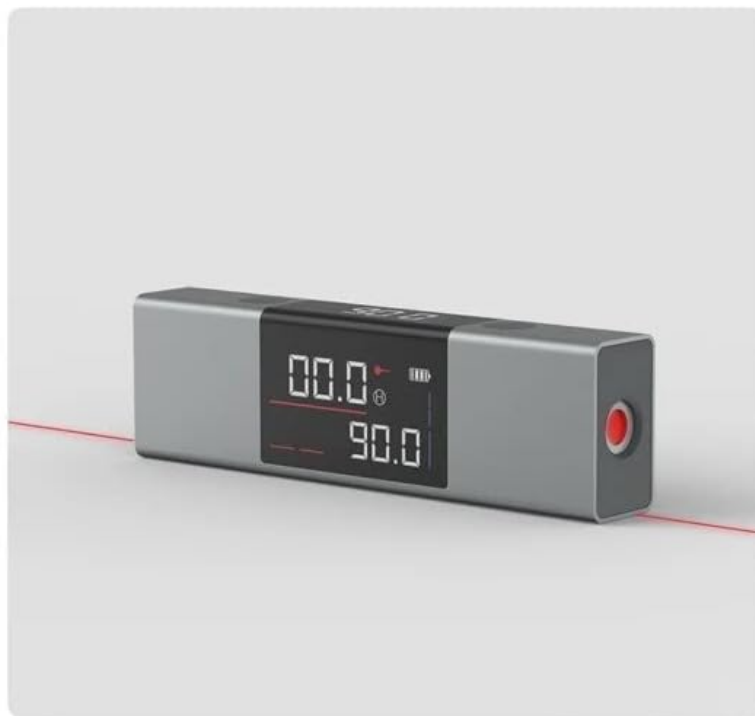


Office
Auxiliary

This image illustrates the versatile applications of the DUKA LI1, including angle leveling, laser line projection, and its utility in professional settings, home improvement, and office auxiliary tasks.

All-aluminum one-piece precision casting Outstanding craftsmanship quality

The body is made of a block of aluminum, CNC cutting, grinding, polishing and other 19 processes, surface anodizing + fine sandblasting, creating an excellent metal texture, presenting sharp and refined lines, restoring the true nature of the tool.



A close-up of the DUKA LI1, highlighting its all-aluminum one-piece precision casting. This design ensures outstanding craftsmanship quality and durability, restoring the true nature of the tool.

Severe quality Precision workmanship

Non-slip soft keys

Comfortable in the hand
Easy to operate



Type-C charging port

Fast charging
for long life



High brightness LED screen

Easy to show
even outdoors



Detailed view of the DUKA LI1's key features: non-slip soft keys for comfortable operation, a Type-C charging port for fast charging and long life, and a high brightness LED screen for easy readability.



The DUKA LI1 held comfortably in a hand, demonstrating its compact and ergonomic design. The clear LED display is visible, emphasizing its ease of use and portability.

4. SETUP

Charging the Device:

1. Locate the Type-C charging port on the side of the DUKA LI1 device.
2. Connect the provided Type-C charging cable to the device.
3. Connect the other end of the charging cable to a compatible USB power adapter (not included) or a computer USB port.
4. The battery indicator on the LED screen will show the charging status. Ensure the device is fully charged before first use for optimal battery life.

The DUKA LI1 features a built-in 730mAh rechargeable lithium battery, providing long cordless operation once fully charged.

5. OPERATING INSTRUCTIONS

Basic Operation:

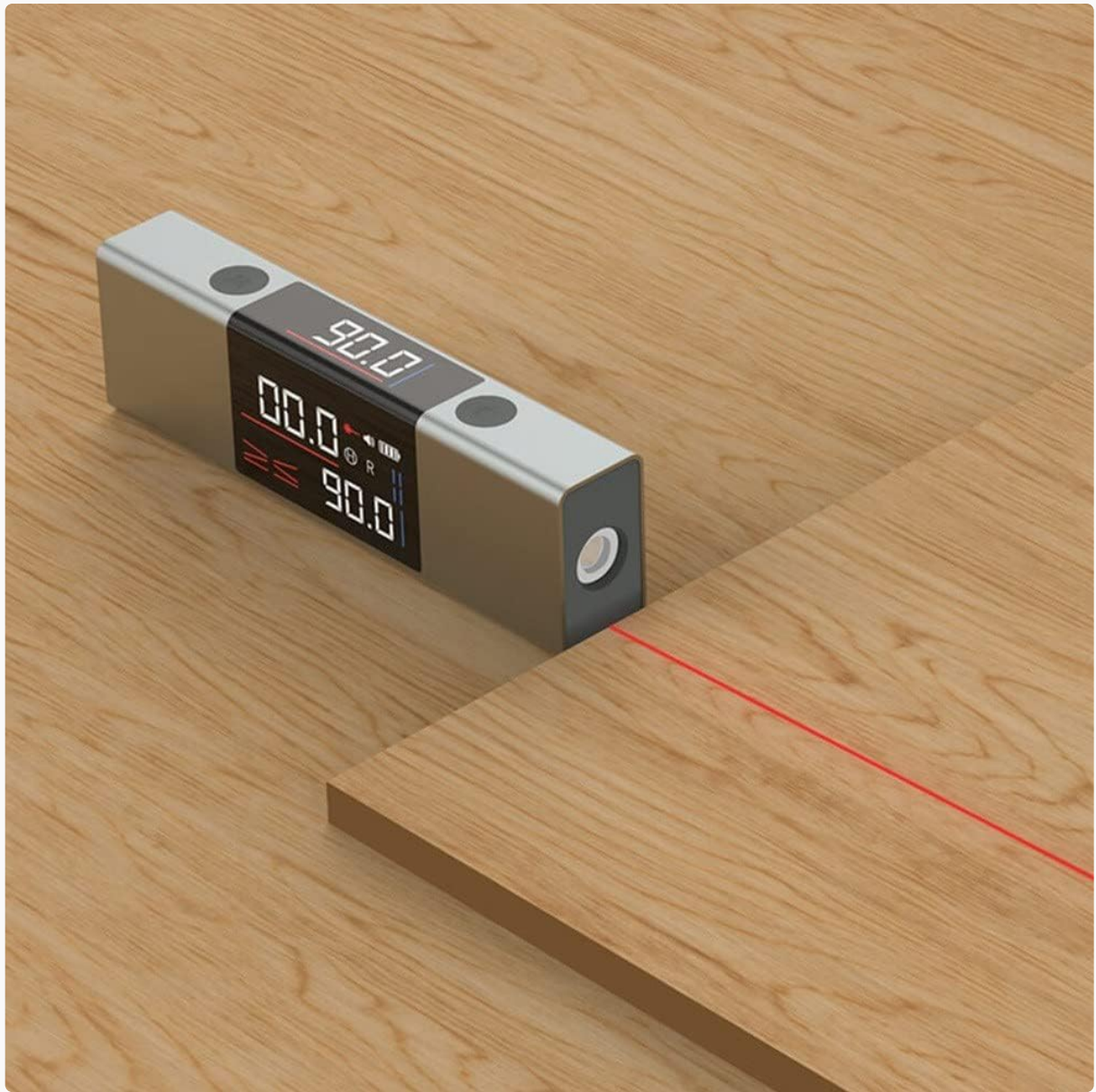
- **Power On/Off:** Press and hold the power button (usually marked with 'M' or a power symbol) to turn the device on or off.
- **Mode Switching:** Short press the power button to cycle between different operating modes (Absolute Angle and Relative Angle).
- **Laser Activation:** The laser line can be activated or deactivated by a dedicated button or a specific press sequence, refer to the device's physical buttons for exact functionality.

Angle Measurement:

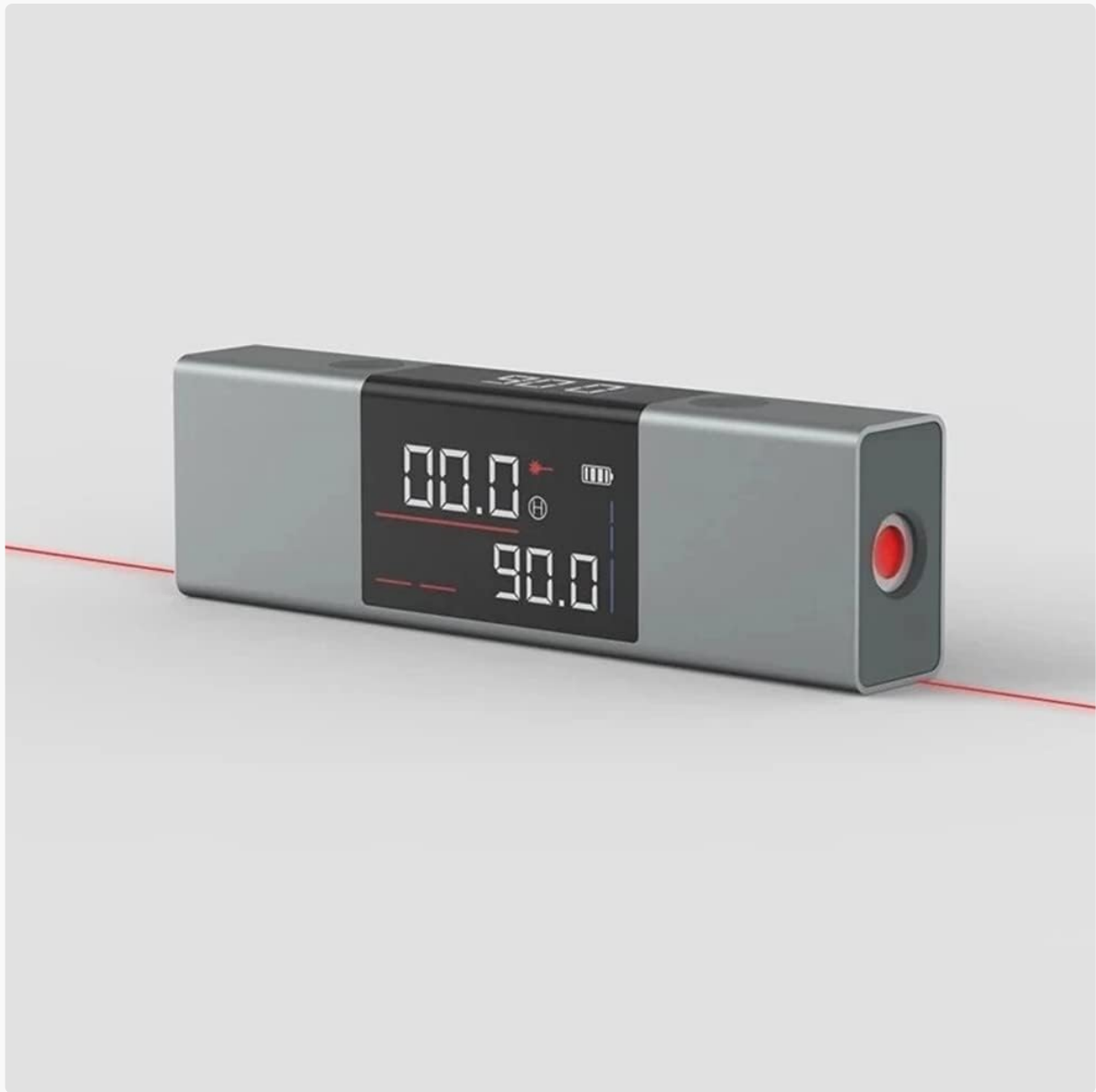
1. Place the base of the DUKA LI1 on the surface you wish to measure the angle from.
2. The dual LED screen will display the current angle relative to the horizontal plane (Absolute Angle mode) or relative to a set reference (Relative Angle mode).
3. For relative angle measurement, place the device on the first surface, press the mode button to set it as the 0-degree reference, then move the device to the second surface to measure the angle between them.

Laser Line Projection:

1. Activate the laser line function.
2. Position the DUKA LI1 to project the laser line onto the desired surface. The laser line can be used for alignment, leveling, or marking.
3. The device can project a single-sided laser line, useful for precise alignment over distances up to 10 meters indoors.



The DUKA LI1 positioned on a wooden surface, accurately projecting a laser line. This demonstrates its utility for precise marking and alignment in woodworking or construction tasks.



A side view of the DUKA LI1, clearly showing the emitted laser line. This highlights the device's capability to project a precise line for various measurement and alignment needs.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the laser output window and LED screen are clean for optimal performance.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, charge the battery to approximately 50% every three months to maintain battery health.
- **Protection:** The device has an IP54 rating, meaning it is protected against dust ingress and splashing water. However, do not immerse it in water.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Connect the device to a power source using the Type-C cable and charge it fully.
Inaccurate readings.	Device not placed on a stable surface; environmental factors; calibration needed.	Ensure the device is on a flat, stable surface. Avoid extreme temperatures. If issues persist, consult the manufacturer for calibration instructions (if applicable). Note that manual measurements may have slight errors (10.50).
Laser line is dim or not visible.	High ambient light; dirty laser output window; laser not activated.	Use in lower light conditions. Clean the laser output window with a soft cloth. Ensure the laser function is activated.
Screen display is unclear.	Screen dirty; extreme temperatures.	Clean the LED screen. Operate within specified temperature ranges (-100C to 500C).

If you encounter problems not listed here, please refer to the manufacturer's official support channels.

8. SPECIFICATIONS

Parameter	Value
Brand Name	DUKA
Product Name	LI1 Laser Angle Line Casting Device
Product Size	120 x 20 x 35 mm
Product Net Weight	70g
Laser Wavelength	660nm
Laser Class	Class II
Protection Level	IP54
Indoor Distance	10m
Operating Temperature	-100C to 500C
Storage Temperature	-200C to 550C
Battery Specifications	730mAh Rechargeable Lithium Battery
Operating Mode	Absolute Angle + Relative Angle

Note: Due to manual measurement, there may be slight errors. Actual use may vary slightly depending on the specific situation.

9. PACKAGE CONTENTS

Version 1: Without Bracket

- 1 x DUKA LI1 Digital Angle Finder
- 1 x Type-C Charging Cable

Version 2: With Bracket

- 1 x DUKA LI1 Digital Angle Finder
- 1 x Type-C Charging Cable
- 1 x Bracket

10. WARRANTY AND SUPPORT

Important Warranty Information:

Please note that the product warranty for the DUKA LI1 Digital Angle Finder is only applicable to customers residing in China. Unfortunately, warranty services cannot be extended to foreign customers. We appreciate your understanding in this matter.

For technical support or inquiries regarding product functionality, please refer to the official DUKA website or contact your local distributor.