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## Dasqua Digital Angle Finder Protractor

# DASQUA 4-in-1 Digital Angle Finder Protractor User Manual

Model: Digital Angle Finder Protractor

Brand: Dasqua

## 1. INTRODUCTION

The DASQUA 4-in-1 Digital Angle Finder is a versatile tool designed for precise angle measurement in various applications such as woodworking, welding, remodeling, and metal fabrication. It integrates the functions of an angle finder, miter calculator, bevel gauge, and level into a single device. This manual provides detailed instructions for the proper setup, operation, and maintenance of your digital angle finder.



Figure 1: DASQUA 4-in-1 Digital Angle Finder

## 2. PRODUCT FEATURES

- **4-in-1 Multi-Function:** Combines an angle finder, miter calculator, bevel gauge, and level.
- **High Accuracy & Extended Range:** Measures angles from 0° to 220° with a precision of  $\pm 0.2^\circ$ . Features a 425 mm long body with a 400 mm extendable leg.
- **Large Backlit LCD Display:** Provides clear readings in various lighting conditions.
- **Lock & Hold Function:** Allows freezing of readings for easy transfer and relative zeroing at any position.
- **Durable Construction:** Made from high-grade aluminum with IP54 dust and splash resistance.
- **Integrated Bubble Levels:** Includes horizontal and vertical bubble levels for standard leveling tasks.
- **Auto Shut-off:** Automatically powers off after 5 minutes of inactivity to conserve battery life.

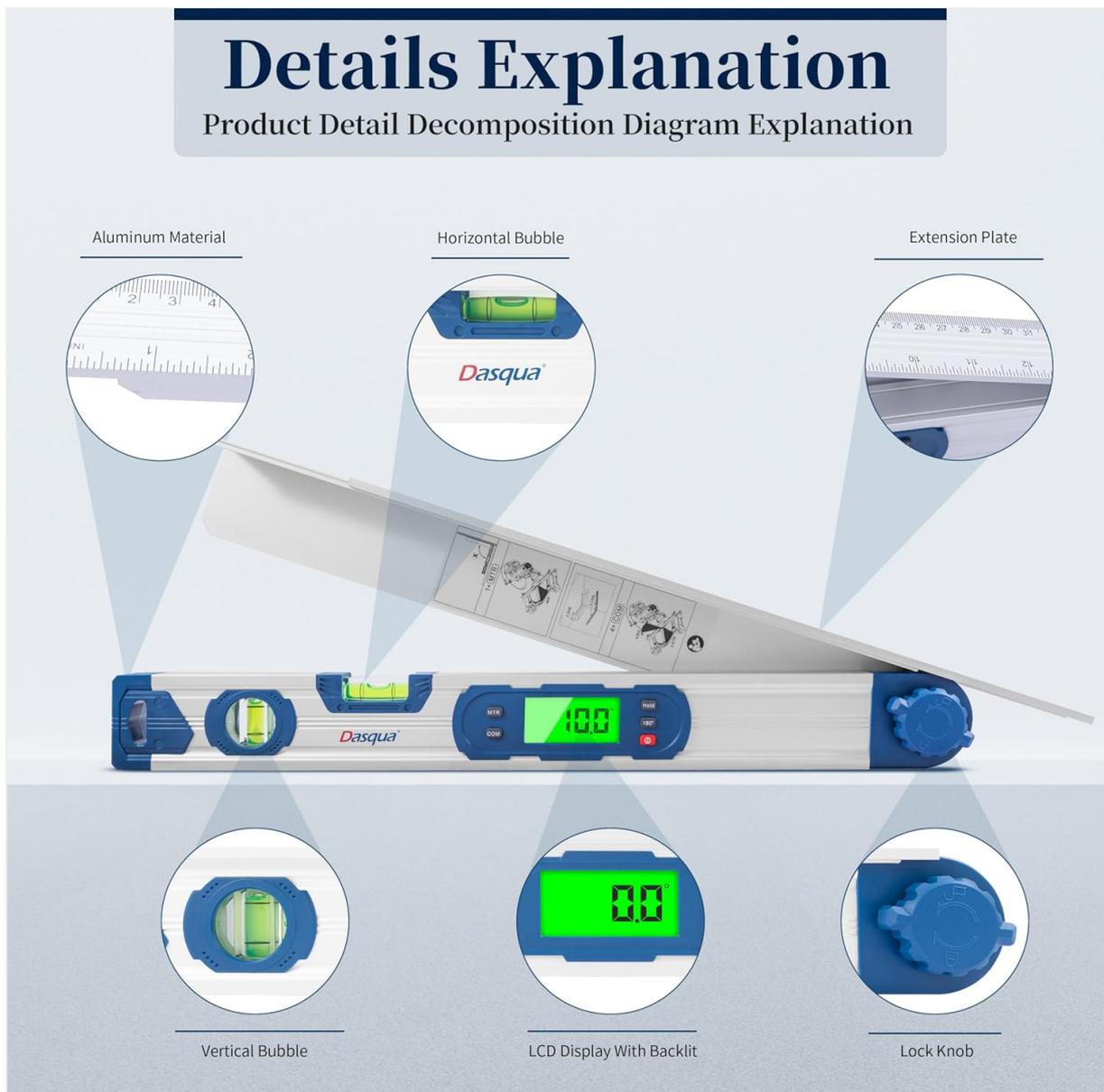


Figure 2: Key Components of the Angle Finder

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Digital Angle Finder

- 1 x Extension Leg
- 1 x Portable Bag
- 2 x 1.5V LR6 (AA) Batteries
- 1 x User Manual (this document)



Figure 3: Included Package Contents

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment cover on the main body of the angle finder.
2. Gently slide or unclip the cover to open the compartment.
3. Insert two 1.5V AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

### 4.2 Attaching the Extension Leg

The angle finder comes with an extendable leg for increased measurement range.

1. Align the extension leg with the slot on the main body of the angle finder.
2. Slide the extension leg into place until it is securely seated.
3. The extension leg features both metric and inch markings for direct measurement.

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*Video 1: Product Overview, Battery Installation, and Extension Leg Attachment. This video demonstrates how to install the batteries, attach the extension leg, and provides a general overview of the angle finder's features and operation.*

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Angle Measurement

1. Press the **On/Off/Zero** button (  ) to power on the device. The backlit LCD will display the current angle.
2. Open the angle ruler by moving the hinged leg. The display will show the angle between the main body and the hinged leg.
3. Position the angle finder against the surfaces you wish to measure. Ensure both legs are flush with the surfaces for accurate readings.
4. The measurement range is 0° to 220°.



Figure 4: Measuring Range Demonstration

## 5.2 Button Functions

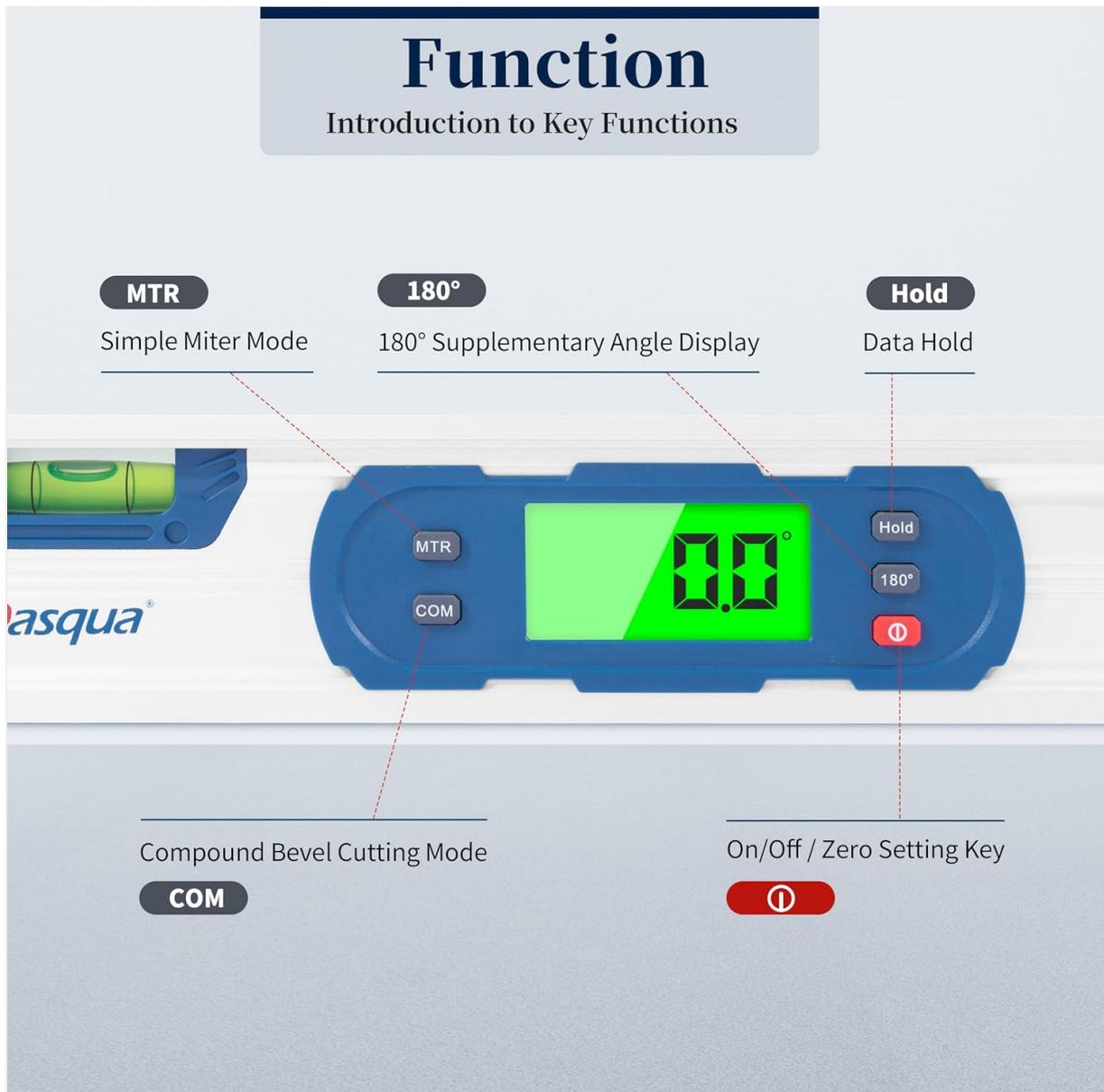


Figure 5: Control Panel and Button Functions

- **On/Off/Zero (⏻):** Press to power on/off. A short press while on will set the current angle to 0.0° (Relative Zeroing).
- **Hold:** Press to freeze the current angle reading on the display. Press again to release.
- **180°:** Press to display the supplementary angle (180° minus the measured angle).
- **MTR (Miter Mode):** Press to calculate the miter angle for single cuts. The display will show the required miter saw setting.
- **COM (Compound Bevel Cutting Mode):** Press to calculate compound miter angles.

## 5.3 Using the Locking Knob

The red locking knob is located at the pivot point of the angle finder.

- To secure an angle, turn the locking knob clockwise until the leg is held firmly.
- To adjust the angle, turn the locking knob counter-clockwise to loosen.
- **Note:** The tightener knob provides mechanical stability but is not designed to hold the angle for measurement transfer with absolute rigidity. Always verify the angle after locking if precise transfer is critical.

## 5.4 Using the Bubble Levels

The angle finder includes two bubble levels:

- One horizontal bubble level for checking level surfaces.
- One vertical bubble level for checking plumb surfaces.
- Use these in conjunction with the digital display for comprehensive leveling and angle finding tasks.

# Wide Applications



Figure 6: Wide Applications of the Angle Finder

## 6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the angle finder in its portable bag in a dry, dust-free environment when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries when the display becomes dim or the device fails to power on.
- **Calibration:** The device is factory calibrated. If you suspect inaccuracies, perform a relative zeroing on a known flat surface.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries. Incorrect battery installation.	Replace batteries with new 1.5V AA batteries. Ensure correct polarity.
Inaccurate angle readings.	Device not properly zeroed. Obstruction between legs.	Perform relative zeroing by pressing the On/Off/Zero button on a flat surface. Ensure legs are clean and fully extended/closed as needed.
Locking knob does not hold angle firmly.	Knob not tightened sufficiently. Design limitation.	Tighten the knob firmly. Be aware that the knob provides mechanical stability but may not offer absolute rigidity for all applications.
Auto shut-off occurs too quickly.	Normal operation (5 minutes of inactivity).	This is a power-saving feature. Press any button to reactivate the display.

## 8. SPECIFICATIONS

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- **Measurement Range:** 0° to 220°
- **Accuracy:** ±0.2°
- **Angle Calculation Accuracy:** Up to ±0.1°
- **Leg Length:** 425 mm (main body) with 400 mm extendable leg
- **Material:** High-grade Aluminum
- **Protection Rating:** IP54 (dust and splash resistant)
- **Display:** Backlit LCD
- **Power Source:** 2 x 1.5V AA Batteries
- **Auto Shut-off:** After 5 minutes of inactivity
- **Item Weight:** 1.28 pounds
- **Package Dimensions:** 17.87 x 9.17 x 1.77 inches

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided with your purchase or contact Dasqua customer service directly. Specific warranty terms may vary by region and retailer.

**Manufacturer:** Dasqua