Dasqua Digital Angel Finder Procractor

Dasqua 220° Digital Angle Finder Protractor Instruction Manual

Model: Digital Angel Finder Procractor

1. Introduction

This manual provides detailed instructions for the safe and effective use of your Dasqua 220° Digital Angle Finder Protractor. Please read this manual thoroughly before operating the device and retain it for future reference. This tool is designed for precise angle measurement in various applications, including woodworking, metalworking, and construction.

2. Product Overview

The Dasqua Digital Angle Finder Protractor is a versatile measuring instrument featuring a 425mm sliding leg, dual bubble levels, and a backlit LCD for clear readings. It is built for durability and accuracy in demanding environments.

2.1 Key Features

- **Precise Angle Measurement:** Measures angles up to 220° with an accuracy of ±0.2°.
- **MTR/COM Modes:** Dedicated modes for calculating double miter angles and compound errors.
- **425mm Sliding Leg:** Facilitates measurements in tight spaces and offers smooth adjustments.
- **Locking Mechanism:** Ensures angles are securely held for transfer.
- **Dual Bubble Levels:** For horizontal and vertical leveling, providing 1.5mm/m accuracy.
- **Backlit LCD:** 0.1° resolution display for clear visibility in various lighting conditions.
- **Durable Construction:** IP54 waterproof housing, resistant to dust, water, and oil.

2.2 Components

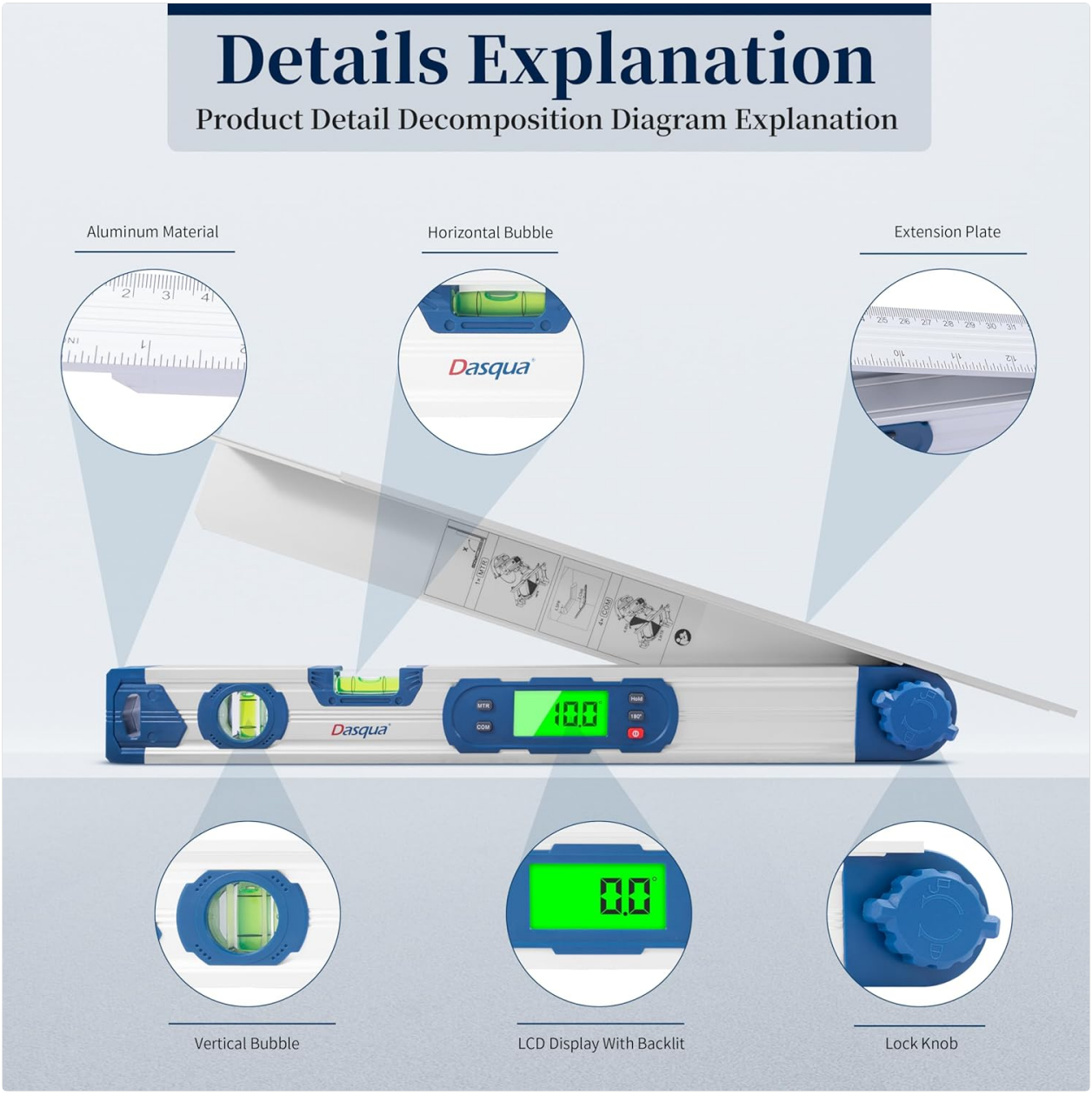


Figure 1: Product Components. This diagram illustrates the main parts of the angle finder, including the aluminum body, horizontal and vertical bubble levels, the extendable leg, the backlit LCD screen, and the locking knob.

- **Main Body:** Houses the digital display and primary measuring arm.
- **Sliding Leg (Extension Plate):** Extends from the main body for measuring larger angles or reaching into confined spaces.
- **Lock Knob:** Secures the sliding leg at a desired angle.
- **LCD Display:** Shows digital angle readings and mode indicators.
- **Control Buttons:** (On-Off, Hold, 180°, MTR, COM) for various functions.
- **Bubble Levels:** One horizontal and one vertical for traditional leveling.

3. Setup

3.1 Battery Installation

The device requires 2 x 1.5V LR6 (AA) batteries for the digital display. To install:

1. Locate the battery compartment cover, typically on the side or back of the main body.
2. Open the cover.

3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

The bubble levels operate mechanically and do not require batteries.

3.2 Initial Power On

Press the **On-Off** button to power on the device. The backlit LCD will illuminate, displaying "0.0" or the current angle.

4. Operating Instructions

Figure 2: Control Buttons. This image highlights the functions of each button on the device: MTR (Simple Miter Mode), COM (Compound Bevel Cutting Mode), Hold (Data Hold), 180° (Supplementary Angle Display), and the On-Off/Zero Setting Key.

4.1 Basic Angle Measurement

1. Power on the device.
2. Place the main body and the sliding leg against the surfaces whose angle you wish to measure.
3. Adjust the sliding leg until it aligns perfectly with the second surface.

4. Read the angle directly from the backlit LCD display.
5. Use the lock knob to secure the angle for transfer if needed.

4.2 MTR (Simple Miter) Mode

Press the **MTR** button to enter Simple Miter Mode. This mode is useful for calculating the miter angle required for a joint. The display will show the miter angle (half of the measured angle) needed for a perfect joint.

4.3 COM (Compound Bevel Cutting) Mode

Press the **COM** button to enter Compound Bevel Cutting Mode. This mode assists in calculating compound angles for complex cuts, such as crown molding or roof rafters. Refer to specific project requirements for interpreting the displayed values in this mode.

4.4 Hold Function

Press the **Hold** button to freeze the current angle reading on the LCD. This is useful when measuring in awkward positions where reading the display directly is difficult. Press **Hold** again to release the reading.

4.5 180° Supplementary Angle Display

Press the **180°** button to display the supplementary angle (180° minus the measured angle). This is useful for certain applications where the inverse angle is required.

4.6 Zero Setting

To set the current position as the zero reference, fully close the angle finder and press the **On-Off** button briefly. The display will reset to "0.0". This allows for relative angle measurements.

4.7 Using the Bubble Levels

Figure 3: Horizontal Leveling. The image demonstrates using the horizontal bubble level to ensure a surface is perfectly flat. Note that the digital display does not show a numerical value for the bubble level.

Figure 4: Vertical Leveling. This image shows the tool being used to verify a vertical alignment using its integrated vertical bubble level. The digital display provides angle readings, but not for the bubble level itself.

The angle finder includes two traditional bubble levels for quick horizontal and vertical leveling. These levels operate independently of the digital display and do not require batteries. Align the tool with the surface and observe the bubble to determine level or plumb.

5. Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. For stubborn dirt, a slightly damp cloth can be used. Avoid abrasive cleaners or solvents.
- **Storage:** Store the angle finder in its included storage bag in a dry, clean environment when not in use.
- **Battery Replacement:** Replace batteries when the display becomes dim or unresponsive. Remove batteries if the device will not be used for an extended period to prevent leakage.
- **IP54 Rating:** The device is IP54 rated, meaning it is protected from dust ingress and splashing water from any direction. While durable, avoid submerging the device in water.

6. Troubleshooting

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead batteries; incorrect battery installation.	Replace batteries with new AA batteries, ensuring correct polarity.
Inaccurate angle readings.	Device not properly zeroed; obstruction; damaged sensor.	Perform zero-setting procedure. Ensure surfaces are clean and flat. If problem persists, contact support.
Sliding leg does not lock securely.	Lock knob not tightened sufficiently; debris in mechanism.	Ensure lock knob is fully tightened. Clean any debris from the sliding mechanism.

7. Specifications

Figure 5: Measuring Range and Dimensions. This graphic details the operational range of the angle finder (0-220 degrees), its accuracy (±0.2 degrees), and its physical dimensions (425mm length, 58mm width, 41mm height).

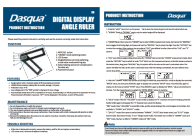
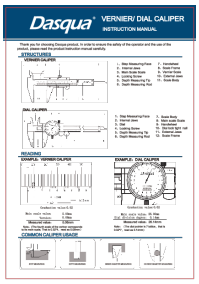
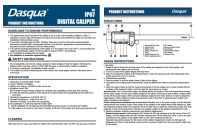
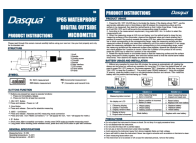
- **Measuring Range:** 0-220°
- **Accuracy:** ±0.2°
- **Resolution:** 0.1°

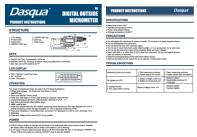
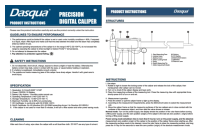
- **Sliding Leg Length:** 425mm
- **Bubble Level Accuracy:** 1.5mm/m
- **Power Source:** 2 x 1.5V LR6 (AA) batteries (for digital display)
- **Material:** Aluminum
- **Protection Rating:** IP54 (Dust and splash water resistant)
- **Item Weight:** 1.28 pounds
- **Package Dimensions:** 17.87 x 9.17 x 1.77 inches

8. Warranty and Support

Dasqua products are manufactured to high-quality standards. For warranty information or technical support, please refer to the official Dasqua website or contact their customer service department. Keep your purchase receipt as proof of purchase.
For further assistance, you may visit the Dasqua Store on Amazon.

Related Documents - Digital Angel Finder Procractor

	Dasqua Digital Angle Ruler Product Instructions Comprehensive instructions for the Dasqua Digital Angle Ruler, covering functions, features, maintenance, troubleshooting, and operating modes like NORMAL, CROWN, and CUS.
	Dasqua Vernier/Dial Caliper Instruction Manual Instruction manual for Dasqua Vernier and Dial Calipers, covering structures, reading measurements, common usage, special caliper usage, precautions, and troubleshooting.
	Dasqua IP67 Digital Caliper Product Instructions and Usage Guide Comprehensive product instructions for the Dasqua IP67 Digital Caliper. This guide covers performance guidelines, safety precautions, detailed specifications, usage instructions, battery replacement, troubleshooting, and proper disposal methods for accurate and safe operation.
	Dasqua IP65 Waterproof Digital Outside Micrometer: Product Instructions Comprehensive product instructions for the Dasqua IP65 Waterproof Digital Outside Micrometer, covering usage, structure, buttons, battery, troubleshooting, and precautions.

	[Dasqua Digital Outside Micrometer: Product Instructions and Specifications] Detailed product instructions and specifications for the Dasqua Digital Outside Micrometer, covering its structure, keys, LCD display, operation, power requirements, safety precautions, and troubleshooting guide.
	[Dasqua Precision Digital Caliper: User Manual & Instructions] Comprehensive guide for Dasqua digital calipers, covering usage, safety, specifications, troubleshooting, and battery replacement. Learn how to operate and maintain your Dasqua digital caliper for accurate measurements.