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Neoteck NTKTL170

Neoteck 400mm / 16-inch Digital Angle Finder Protractor User Manual

Model: NTKTL170

1. INTRODUCTION

Thank you for choosing the Neoteck Digital Angle Finder. This precision tool is designed for accurate angle measurement in various applications, including woodworking, construction, and DIY projects. Featuring a backlit LCD display, a wide measurement range, and integrated bubble levels, this device offers reliable performance. Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your tool.

2. SAFETY INFORMATION

- Always handle the device with care to prevent damage.
- Do not expose the device to extreme temperatures, moisture, or direct sunlight.
- Keep the device away from strong magnetic fields.
- Ensure the battery is inserted correctly according to polarity markings.
- Remove the battery if the device will not be used for an extended period.
- This device is not a toy. Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Neoteck Digital Angle Finder (400mm / 16-inch)
- 9V Battery
- Portable Carrying Case
- User Manual



Image: The Neoteck Digital Angle Finder, a 9V battery, and its protective carrying case.

4. PRODUCT FEATURES

- **Backlit LCD Screen:** Features a backlit LED display for clear data readability, even in low-light conditions.
- **High Precision:** Measurement accuracy of 0.5° , angle increment/decrement of 0.1° , and an angle range of $0-225^\circ$. Includes horizontal and vertical levels for precise angle measurement.
- **Mechanical Lock and Hold Function:** Equipped with a lock knob to secure the angle during marking and a hold button to freeze the displayed angle.

5. PRODUCT OVERVIEW

LCD Display

Shows the exact angle at once



Image: The backlit LCD display and control buttons.

Controls and Display:

- **LCD Display:** Shows the measured angle digitally.
- **ON/OFF Button:** Powers the device on or off.
- **HOLD Button:** Freezes the current angle reading on the display.
- **Backlight Button:** Activates or deactivates the LCD backlight.
- **Lock Knob:** Mechanically secures the angle of the ruler arms.
- **Horizontal Bubble Level:** For checking horizontal alignment.
- **Vertical Bubble Level:** For checking vertical alignment.

6. SETUP

Battery Installation:

The Neoteck Digital Angle Finder requires one 9V battery (included). Follow these steps to install the battery:

1. Locate the battery compartment on the back of the main unit.
2. Slide open the battery compartment cover.
3. Connect the 9V battery to the battery clip, ensuring correct polarity (+ to + and - to -).
4. Place the battery into the compartment and close the cover securely.



Image: Battery installation process.

7. OPERATING INSTRUCTIONS

Power On/Off:

- Press the **ON/OFF** button to turn the device on.
- Press and hold the **ON/OFF** button for a few seconds to turn the device off.

Measuring Angles:

The device can measure angles from 0 to 225 degrees with an accuracy of $\pm 0.5^\circ$.

1. Turn on the angle finder.
2. Open the ruler arms to the desired angle. The digital display will show the current angle.
3. For precise measurements, ensure the arms are flush against the surfaces.

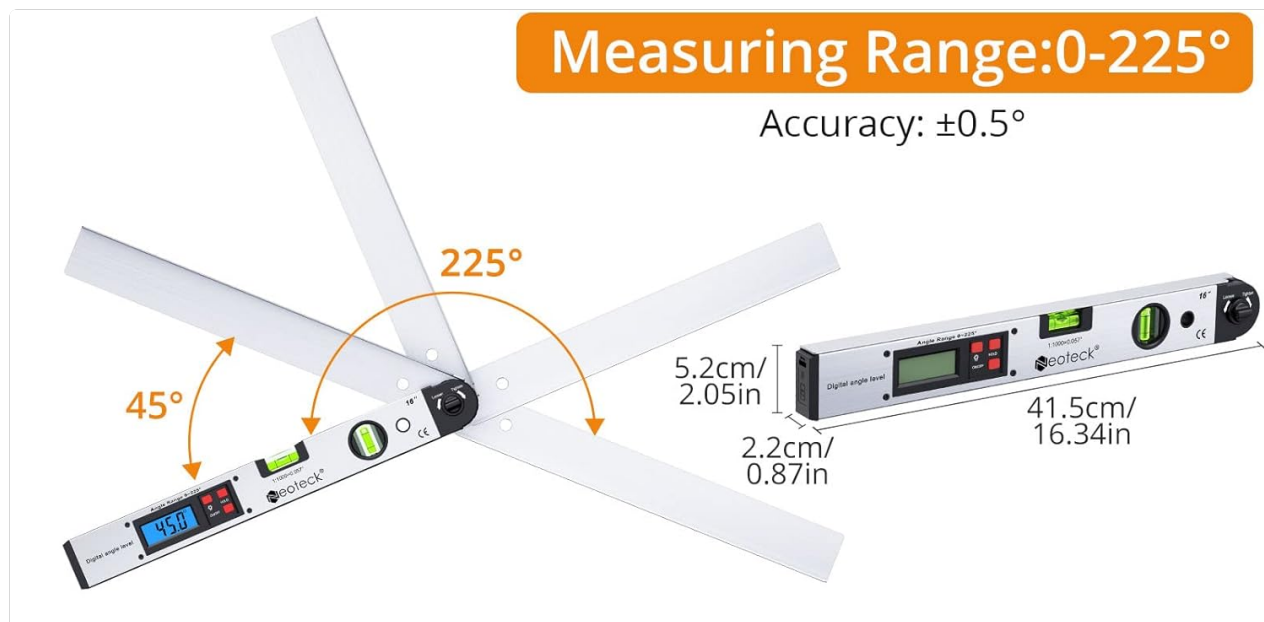


Image: Measuring range and typical use.

Using the HOLD Function:

- After measuring an angle, press the **HOLD** button to freeze the reading on the LCD display.
- Press the **HOLD** button again to release the reading and resume live measurement.

Activating the Backlight:

- Press the **Backlight** button to illuminate the LCD display for better visibility in dim areas.
- Press the **Backlight** button again to turn off the backlight.

LCD Display

Shows the exact angle at once



Image: Backlit LCD display in use.

Using the Mechanical Lock Knob:

- To secure the measured angle, tighten the **Lock Knob** located at the pivot point of the ruler arms. This prevents the arms from moving, allowing for accurate transfer of angles.
- Loosen the **Lock Knob** to adjust the arms freely.

Using the Bubble Levels:

The angle finder includes both horizontal and vertical bubble levels for additional leveling tasks. These are not digital levels but provide traditional visual leveling.



Bubble Horizontal and Vertical Level

Sensitive to the angle changes (NOTE: It is not a digital level)



Image: Horizontal and vertical bubble levels.

Wide Applications:



Image: Examples of wide applications.

8. CARE AND MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the angle finder in its protective carrying case when not in use to prevent damage.
- Avoid dropping the device or subjecting it to strong impacts.
- If the display becomes dim or unresponsive, replace the 9V battery.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not turn on	Battery is dead or incorrectly installed.	Check battery polarity; replace with a new 9V battery.
Inaccurate readings	Arms not flush against surface; device damaged.	Ensure proper contact; if damage is suspected, contact support.
LCD display is dim	Low battery; backlight off.	Replace battery; press the backlight button.

10. SPECIFICATIONS

- **Model Number:** NTKTL170
- **Measurement Range:** 0-225°
- **Accuracy:** ±0.5°
- **Increment/Decrement:** 0.1°
- **Length:** 400mm / 16 inches
- **Display:** Backlit LCD
- **Power Source:** 1 x 9V Battery (included)
- **Power Consumption:** 2 Watt-hours
- **Dimensions (Package):** 44 x 6.8 x 4.7 cm
- **Weight (Package):** 540 grams
- **Manufacturer:** Neoteck

11. WARRANTY AND SUPPORT

Warranty Information:

Neoteck products are designed for quality and reliability. For specific warranty details, please refer to the warranty card included with your purchase or contact Neoteck customer support. Keep your purchase receipt as proof of purchase for warranty claims.

Customer Support:

If you encounter any issues or have questions regarding your Neoteck Digital Angle Finder, please contact our customer support team. Contact information can typically be found on the product packaging or on the official Neoteck website.

