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Neoteck ST99GL

Neoteck 225° Digital Angle Finder with Laser (Model ST99GL) User Manual

Brand: Neoteck | Model: ST99GL

INTRODUCTION

Thank you for choosing the Neoteck 225° Digital Angle Finder with Laser. This precision tool is designed for accurate angle measurement and alignment in various applications, including woodworking, construction, tile installation, and home renovation. This manual provides essential information for safe and effective use of your device.



Image: The Neoteck 225° Digital Angle Finder with Laser, showcasing its design and digital display.

PRODUCT FEATURES

- **Laser-Aim Digital Angle Finder:** Features an integrated Class 2 laser (<math><1\text{mW}</math>) that projects a clear line up to 3 meters for direct angle marking and alignment, reducing measurement transfer errors.
- **0-225° High-Precision Digital Protractor:** Offers a professional measuring range with $\pm 0.5^\circ$ precision and 0.1° incremental adjustment. Includes a mechanical lock knob for securing angles.
- **Built-in Bubble Levels:** Incorporates horizontal and vertical spirit vials for quick level and plumb checks, eliminating the need for a separate tool.
- **User-Friendly Controls:** Equipped with a HOLD button to freeze readings, a physical lock knob for arm security, and a blue backlit LCD for readability in dim conditions.
- **Automatic Power-Off:** Powers off automatically after 5 minutes of inactivity to conserve battery life.
- **Durable Construction:** Made with a robust aluminum alloy frame for jobsite toughness and long-term reliability.

WHAT'S IN THE BOX

Upon opening the package, please ensure all the following items are present:

- 1 x Neoteck Digital Angle Finder with Laser
- 1 x Portable Bag
- 1 x 9V Battery
- 1 x User Manual (this document)



Image: The Neoteck Digital Angle Finder, its portable bag, 9V battery, and user manual.

SAFETY INFORMATION

Please read and understand all safety warnings and instructions before using this product. Failure to follow these instructions may

result in laser radiation exposure, electric shock, fire, and/or serious injury.

Laser Safety

This device uses a Class 2 laser product (<1mW). Adhere to the following safety guidelines:

- **CAUTION:** Do not stare directly into the laser beam.
- Avoid direct eye exposure to the laser.
- Do not aim the laser beam at people or animals.
- Do not disassemble the device; laser radiation can be dangerous.
- Keep the device out of reach of children.

General Safety

- Ensure the battery is installed correctly according to polarity markings.
- Remove the battery if the device will not be used for an extended period.
- Do not expose the device to extreme temperatures, moisture, or direct sunlight.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

SETUP

Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert the provided 9V battery, ensuring the positive (+) and negative (-) terminals align correctly with the markings inside the compartment.
4. Close the battery compartment cover securely.



Image: A close-up view of the battery compartment, showing the insertion of a 9V battery.

OPERATING INSTRUCTIONS

Power On/Off

- Press the **ON/OFF** button to turn the device on. The LCD will illuminate.
- Press and hold the **ON/OFF** button for a few seconds to turn the device off.
- The device will automatically power off after 5 minutes of inactivity.

Measuring Angles

1. Open the arms of the angle finder to the desired angle. The digital display will show the current angle.
2. The measurement range is 0-225°.
3. To lock the measured angle, tighten the **Lock Knob** located at the pivot point. This prevents accidental changes when transferring the angle.

4. Press the **HOLD** button to freeze the current reading on the LCD. Press it again to release.

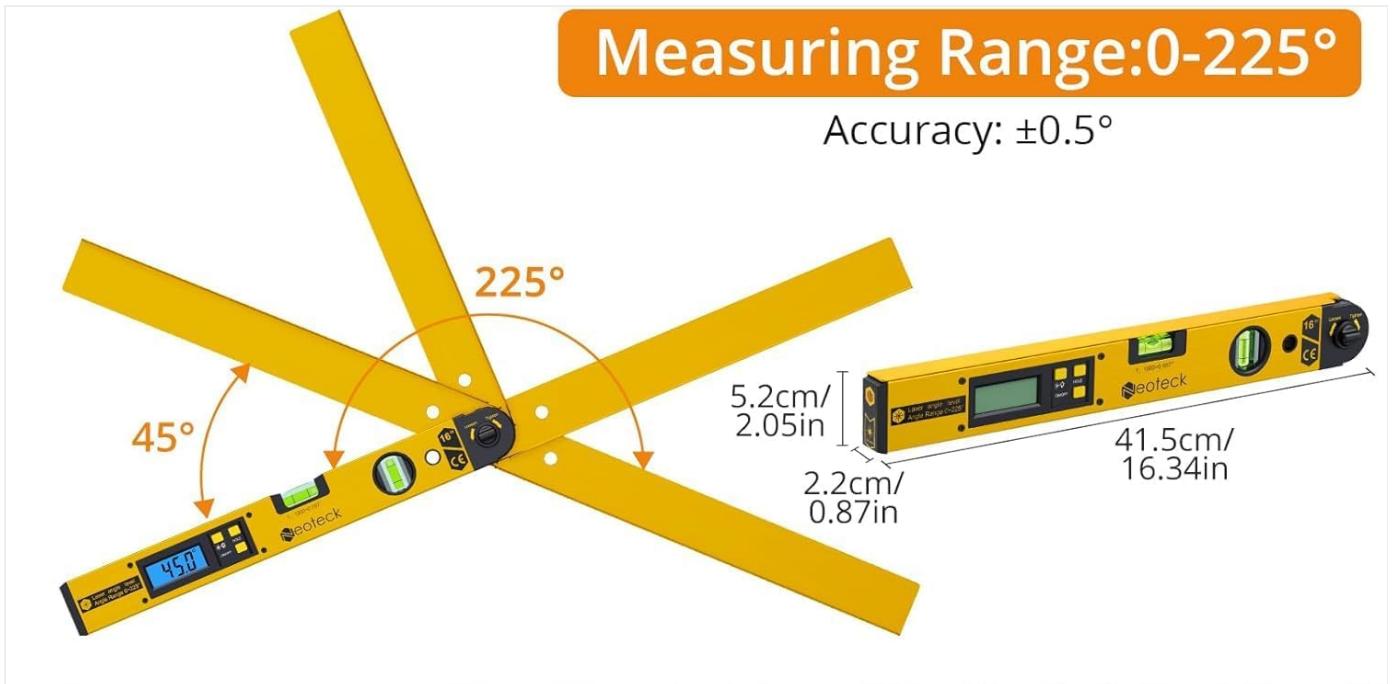


Image: The angle finder displaying a 45° angle, illustrating its 0-225° measuring range.

LCD Display

Shows the exact angle at once

Backlight Design

keep its normal use in dim areas

134.2°



Image: A close-up of the backlit LCD display showing an angle of 134.2 degrees, highlighting its readability.

Using the Laser Line

- With the device powered on, press the **Laser Button** (often combined with the backlight button, indicated by a laser icon) to activate the laser line.
- The laser projects a horizontal line for direct visual marking and alignment on surfaces.
- The working distance for the laser is typically 3-5 meters.
- Use the laser for tasks such as aligning picture frames, installing tiles, or marking straight lines.
- Press the Laser Button again to turn off the laser.



Bubble & Laser Horizontal Level

Dual visual guides for quick level checking (NOTE: It is not a digital level)



Image: The digital angle finder projecting a laser line onto a wall, demonstrating its use for precise alignment.

Your browser does not support the video tag.

Video: Demonstration of the Neoteck Digital Angle Finder's features, including angle measurement, laser line projection for alignment, and use of bubble levels.

Using the Bubble Levels

- The device includes both horizontal and vertical bubble levels.
- Place the angle finder against the surface you wish to check for level or plumb.
- Observe the bubble within the vials. When the bubble is centered between the two lines, the surface is level (horizontal vial) or plumb (vertical vial).
- These bubble levels provide quick visual checks and do not display values on the LCD.



Wide Applications

Widely used in home renovation, woodworking, construction and general maintenance

Image: The digital angle finder being used to check horizontal alignment with its integrated bubble level.

Backlight Function

- Press the **Backlight Button** (often combined with the laser button, indicated by a light bulb icon) to turn the LCD backlight on or off.
- The backlight improves readability in low-light conditions.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive materials. Keep the laser aperture clean for optimal performance.
- **Storage:** Store the angle finder in its portable bag in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** When the battery indicator on the LCD shows low power, replace the 9V battery promptly to ensure accurate readings. Follow the battery installation steps in the Setup section.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is dead or incorrectly installed.	Check battery polarity. Replace with a new 9V battery.
LCD display is dim or unreadable.	Low battery or backlight is off.	Replace battery. Press the Backlight Button to activate the backlight.
Laser beam is weak or not visible.	Low battery or laser aperture is obstructed.	Replace battery. Clean the laser aperture. Ensure ambient light is not too bright.
Angle reading is inaccurate.	Device not properly calibrated (unlikely for this type of device, but possible if dropped) or arms are not fully extended/closed.	Ensure arms are fully closed (0°) or fully open (180°/225°) for reference. If persistent, contact support.
Lock knob does not secure the arms.	Knob is loose or mechanism is damaged.	Ensure the knob is tightened firmly. If still loose, contact support.

SPECIFICATIONS

Feature	Detail
Brand	Neoteck
Model Number	ST99GL
Material	Aluminum
Color	Golden
Operation Mode	Manual
Angle Measuring Range	0-225°
Precision	±0.5°
Laser Class	Class 2 (<1mW)
Laser Working Distance	3-5 meters (approx.)
Power Source	1 x 9V Battery (included)
Automatic Shut-off	After 5 minutes of inactivity
Item Weight	1.23 pounds (approx. 0.56 kg)
Package Dimensions	17.48 x 2.72 x 1.81 inches (approx. 44.4 x 6.9 x 4.6 cm)

WARRANTY

This Neoteck product comes with an 18-month warranty from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Neoteck customer support. Refer to the product packaging or the official Neoteck website for the most current contact information.

Online Resources: Visit the official Neoteck store on Amazon for product updates and additional information: [Neoteck Store](#)

