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Nikotek US-NK50

NIKOTEK Laser Distance Meter User Manual

Model: US-NK50

1. Introduction

The NIKOTEK Laser Distance Meter is a precision measuring instrument designed for various applications, including home design, decoration, woodworking, and handicraft art. It offers high accuracy and multiple measurement functions, making it an essential tool for professionals and DIY enthusiasts alike.
Key features include:

- **High Accuracy:** Measures up to ±1/16 inch, with a measuring distance extending to 165 feet.
- **Unit Switchable:** Easily switch between Meters (M), Inches (In), and Feet (Ft).
- **LCD Backlight:** Features a black LCD display for clear data visibility in various lighting conditions.
- **Multiple Measurement Modes:** Supports area, distance, length, volume, continuous measurement, and Pythagorean method (three points).
- **IP54 Protection:** Designed to be dustproof and waterproof for enhanced durability.
- **Portable Design:** Lightweight and compact for easy carrying and comfortable grip.



Figure 1.1: NIKOTEK Laser Distance Meter and its accessories, including AAA batteries, a cloth bag, and a strap.

2. Setup

2.1 Battery Installation

The NIKOTEK Laser Distance Meter requires two (2) 1.5V AAA batteries for operation. These are typically included with your purchase.

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert the two AAA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

2.2 Initial Power On

After installing the batteries, press the **ON/MEAS** button to power on the device. The LCD backlight will illuminate, and the device will be ready for use.

3. Operating Instructions

3.1 Button Functions

Familiarize yourself with the buttons on the device:



Figure 3.1: Overview of button functions.

- **FUNC (Function Button / Data Storage):** Press to cycle through measurement modes (Distance, Area, Volume, Pythagorean). Long press to access data storage.
- **ON/MEAS (Power ON / Measure button):** Press to power on the device or to initiate a measurement.
- **+/- (Add/Subtract, Forward/Backward):** Use to add or subtract measurements. Also used for navigation in certain

menus.

- **OFF/CLR (Power OFF / Clear Button):** Press to clear the current measurement or to power off the device.
- **UNIT (Benchmark / Unit switch):** Press to switch between measurement units (Meters, Inches, Feet). Long press to change the measurement benchmark (front or rear of the device).

3.2 Unit Switching

The device supports switching between Meters (m), Feet (ft), Inches (in), and Feet+Inches (ft+in). To change the unit, press the **UNIT** button repeatedly until your desired unit is displayed on the screen.

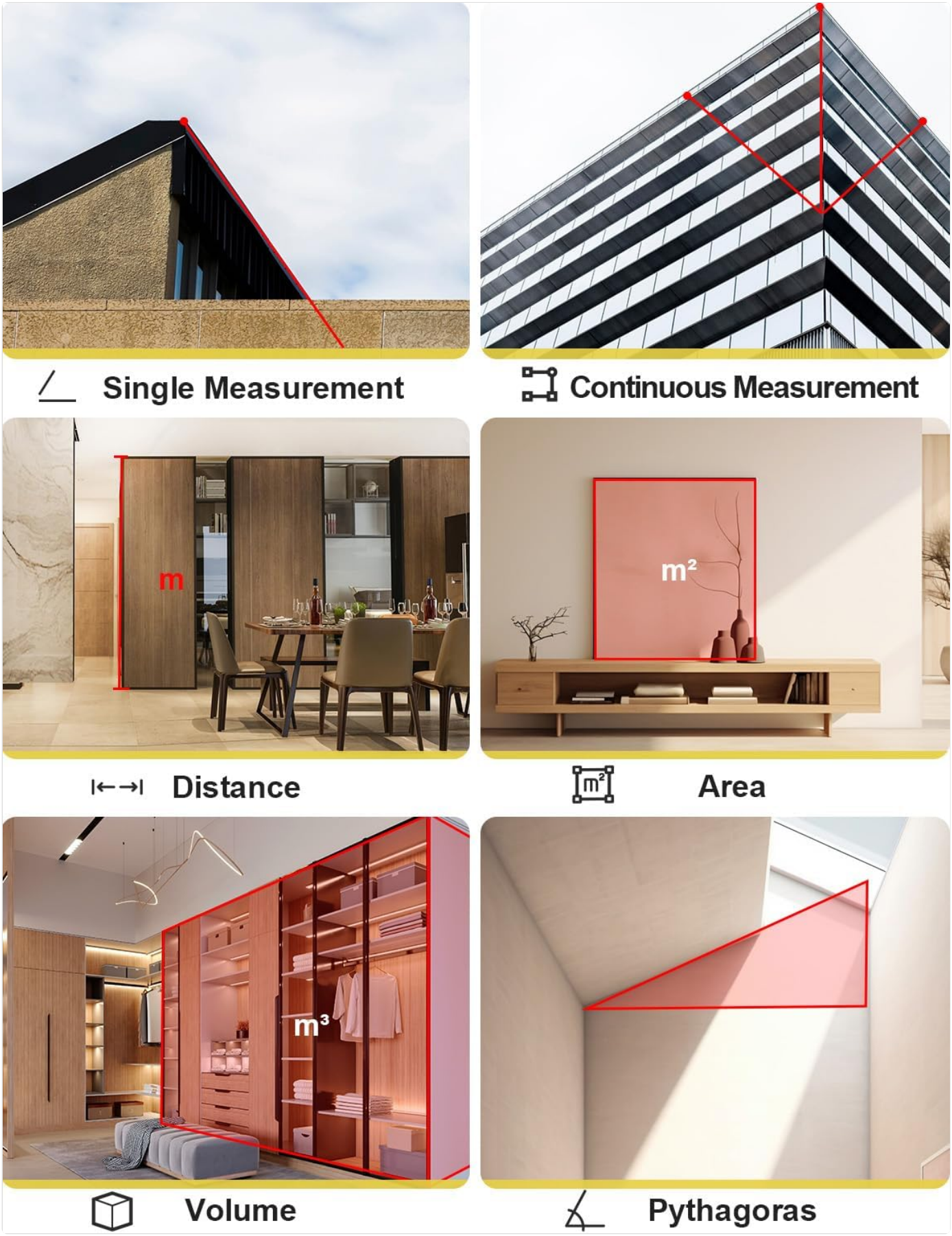


Figure 3.2: Unit conversion options.

3.3 Measurement Modes

The NIKOTEK Laser Distance Meter offers several measurement modes. Press the**FUNC** button to cycle through these modes.



Figure 3.3: Multiple measurement modes.

- **Single Measurement:** For a quick, one-time distance measurement. Point the laser at the target and press **ON/MEAS**.
- **Continuous Measurement:** Allows for dynamic measurement as you move the device. The display updates in real-time. Press **ON/MEAS** to start and again to stop.

- **Area Measurement:** To calculate the area of a rectangular space. Measure the length and width, and the device will automatically calculate the area.
- **Volume Measurement:** To calculate the volume of a space. Measure length, width, and height, and the device will compute the volume.
- **Pythagorean Measurement (Three Points):** Used to calculate indirect distances, such as height, using the Pythagorean theorem. Follow the on-screen prompts to take the necessary measurements.

3.4 Addition and Subtraction of Measurements

The device allows you to add or subtract measurements. After taking a measurement, press the **+/-** button to enter addition or subtraction mode. Take the next measurement, and the device will perform the calculation. Press **OFF/CLR** to exit this mode.

3.5 Historical Data Record

The NIKOTEK Laser Distance Meter can store up to 99 groups of historical data. To view stored measurements, long press the **FUNC** button. Use the **+/-** buttons to navigate through the records.



Figure 3.4: Historical data record display.

4. Maintenance

Proper maintenance ensures the longevity and accuracy of your NIKOTEK Laser Distance Meter.

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the lens is clean for accurate measurements.
- **Storage:** When not in use, store the device in the provided cloth bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** Remove batteries if the device will not be used for an extended period to prevent leakage.
- **Protection:** The device has an IP54 rating, meaning it is protected against dust ingress and splashing water from any direction. While durable, avoid submerging the device in water or exposing it to heavy rain.



Figure 4.1: IP54 Dustproof and Waterproof protection.

5. Troubleshooting

If you encounter issues with your NIKOTEK Laser Distance Meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries with new 1.5V AAA batteries. Ensure correct polarity.
Inaccurate measurements.	Dirty laser lens; unstable measuring surface; strong light interference.	Clean the laser lens with a soft cloth. Ensure the device is stable. Avoid measuring in direct sunlight or strong light if possible.
Display is dim or unreadable.	Low battery power.	Replace batteries.
Laser dot is not visible.	Measuring in bright conditions; laser is off.	Try measuring in lower light conditions. Ensure the device is powered on and the laser is activated.

If the problem persists after trying these solutions, please contact customer support.

6. Specifications

Feature	Detail
Brand	Nikotek
Model Number	US-NK50
Measuring Range	165 feet
Accuracy	±1/16 inch
Units	Meters (M), Inches (In), Feet (Ft)
Color	Black and Yellow
Material	Acrylonitrile Butadiene Styrene
Power Source	2 x 1.5V AAA Alkaline Batteries (included)
Product Dimensions	5.5"L x 3.07"W x 1.57"H
Item Weight	5.6 ounces
International Protection Rating	IP54 (Dustproof and Waterproof)
Included Components	Laser distance measure, 2 x 1.5V AAA Batteries, Cloth Bag, Strap, User Manual

7. Warranty and Support

The NIKOTEK Laser Distance Meter comes with a one-year warranty from the date of purchase. Nikotek also provides lifetime technical support for this product.
For any questions, technical assistance, or warranty claims, please contact Nikotek customer service. Refer to the contact information provided on the product packaging or the official Nikotek website.

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