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NOYAFA NF-198

Noyafa NF-198 GPS Land Meter User Manual

Model: NF-198

1. Product Overview

The Noyafa NF-198 is a GPS-enabled land meter designed for accurate measurement of area and length. It is suitable for various terrains, including mountainous, sloped, and flat fields. The device provides real-time tracking, displays measurement values, and can automatically calculate prices based on set parameters. It features a color screen for clear data visualization and supports data export for printing and analysis.

Figure 1: Noyafa NF-198 GPS Land Meter

This image shows the front view of the Noyafa NF-198 GPS Land Meter, highlighting its display screen and control buttons. The device is blue and black with a wrist strap.

2. Product Components and Structure

The NF-198 device includes several key components and controls for its operation:

Figure 2: NF-198 Product Structure

This diagram labels the various parts and buttons of the NF-198 device, including the hanging hole, GPS signal indication, HD digital display screen, power status indication, On/Off button, Save function button, Back button, Pause button, Delete button, Left/Right/Upward/Downward adjustment buttons, Validator (Enter button), Backlit button, Data confirmation button, and Lighting light button.

2.1. Package Contents

Upon unboxing, ensure all components are present:

- Noyafa NF-198 GPS Land Meter
- PCB (Printed Circuit Board - likely refers to internal components or a specific accessory)
- User Manual (this document)
- Carrying Pouch (as seen in packaging images)
- USB Cable (for data transfer/charging, implied)

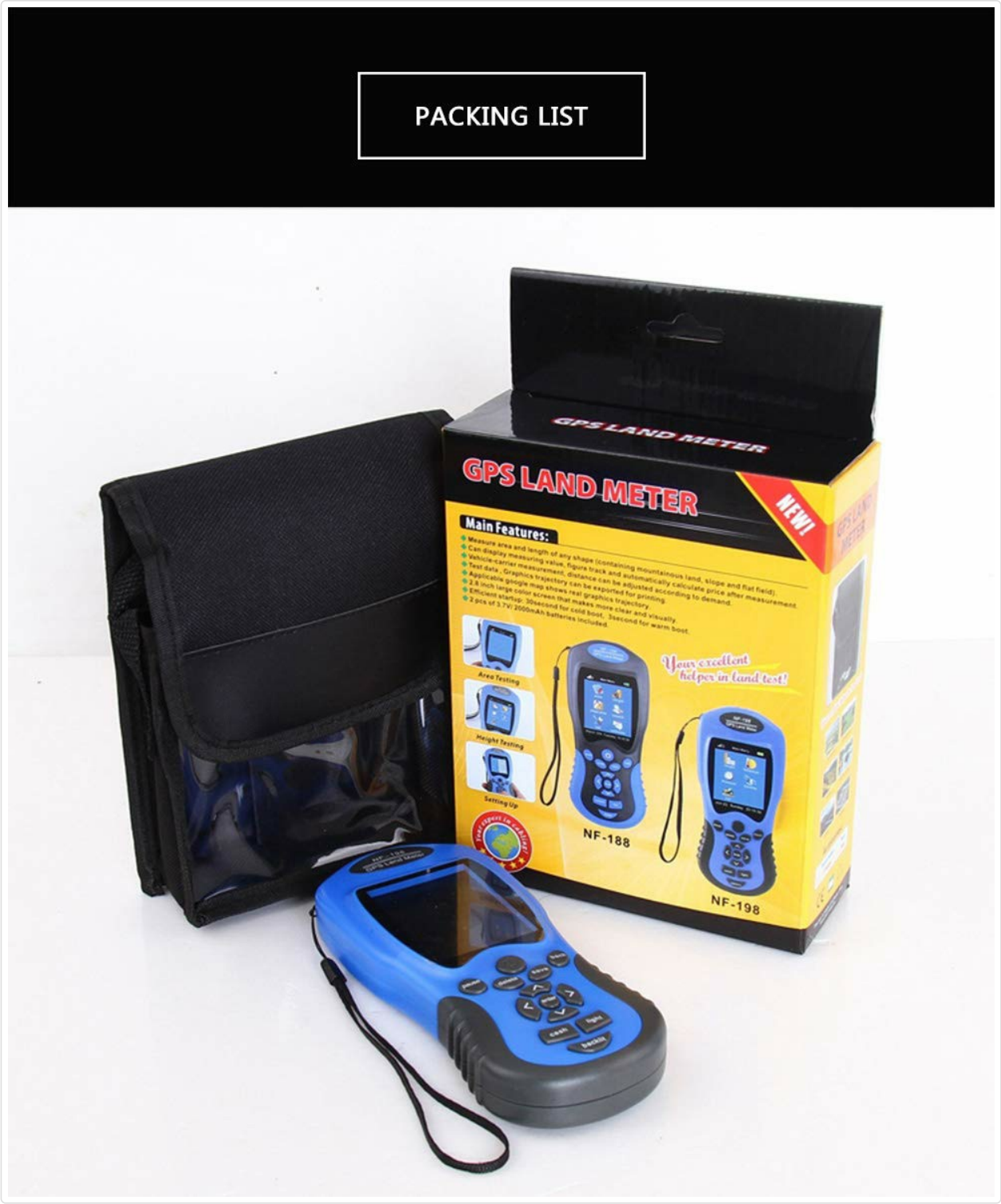


Figure 3: Packaging Contents

This image displays the Noyafa NF-198 device alongside its retail packaging and a black carrying pouch, indicating the typical contents of the product package.

3. Setup and Initial Use

3.1. Battery Installation and Charging

The device comes with two 2000mAh lithium batteries. Ensure they are properly installed. Connect the device to a power source using the provided USB cable to charge the batteries before first use.

3.2. Powering On/Off

Press and hold the **On**/**Off** button (refer to Figure 2) to power the device on or off.

3.3. GPS Signal Acquisition

For accurate measurements, the device requires a strong GPS signal. Operate the device outdoors and away from tall buildings or dense foliage that may obstruct satellite signals. Wait until the satellite signal indicator shows at least 6 satellites before starting any measurement.

4. Operation Guide

The NF-198 offers various measurement modes and functions accessible via its main menu.

Figure 4: Main Menu Functions

This image displays the main menu of the NF-198, showing icons for S-Flat (flat area measurement), Length, S-Slope (slope area measurement), S-Width (width measurement), Vehicle (vehicle-carrier measurement), and Query (data query).

4.1. Area and Length Measurement

1. From the main menu, select the desired measurement mode (e.g.,**S-Flat** for flat area, **S-Slope** for slope area, **Length** for linear distance).
2. Walk along the perimeter of the area to be measured or along the line for length measurement. The device will track your movement.
3. Press the **Pause** button to temporarily stop tracking, and**Pause** again to resume.
4. Once the measurement is complete, the device will display the measuring value, figure track, and automatically calculate the price if configured.

Figure 5: Measurement Data Display

This image shows the NF-198 screen displaying measurement results, including Girth, S-Flat area, Piece, Total, and GPS coordinates (LON, LAT), along with the date and time.

4.2. Vehicle-Carrier Measurement

This mode allows for distance measurement while mounted on a vehicle. The distance can be adjusted according to specific needs. Select **Vehicle** from the main menu to activate this function.

4.3. Equal-Width Area Measurement

This function is used for measuring areas with a consistent width. Consult the on-screen instructions or specific manual section for detailed steps on using this mode.

4.4. Setting Unit Area Price

The device allows you to set a unit area price, enabling automatic price calculation after measurement. This can be done via 'manual testing' or 'auto testing' methods.

Figure 6: Settings Menu

This image shows the settings menu of the NF-198, where users can configure Area Unit, Area U/P (Unit Price), Len Unit, Len U/P, Mode, Backlight, Auto off, Coord, and TimeZone.

4.5. Data Management

The NF-198 can save up to 100 sets of measurement data. Saved data can be reviewed and deleted directly on the device.

Figure 7: Data Review and Deletion

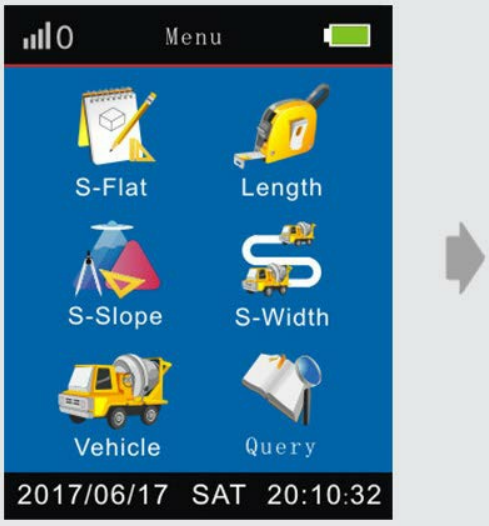
This image shows two screens from the NF-198: one listing saved measurement data (Delect, S-Flat, Length, S-Width with dates) and another showing a confirmation prompt to delete selected data.

4.6. Data Export

Test data and graphics trajectory can be exported to a computer for printing and further analysis. The device is compatible with Google Maps to show real graphics trajectory.

4. The unit area price can be setted and it has two testing method “manual testing ” and “auto testing ”.

5. Data can be exported to computer.



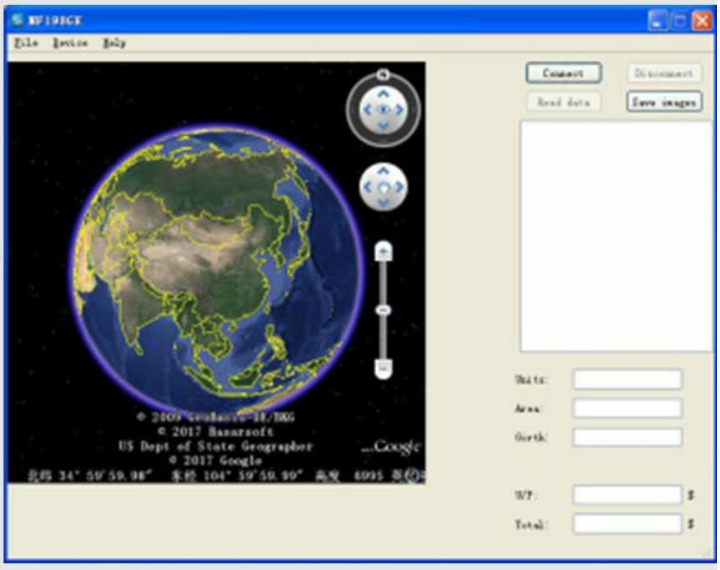


Figure 8: Data Export to Computer

This image illustrates the process of exporting data from the NF-198 to a computer, showing the device's main menu and a computer screen displaying a mapping software interface (resembling Google Earth) with options to connect, read data, and save images.

5. Key Features

The Noyafa NF-198 GPS Land Meter incorporates several features to enhance its functionality:

- **Advanced Positioning:** Utilizes advanced chips for fast search positioning and ultra-high precision measurements.
- **Versatile Measurement:** Measures area and length of any shape, including mountainous, sloped, and flat land.
- **Real-time Tracking:** Displays real-time track and calculates total price.
- **Color Display:** Features a 2.8-inch large color screen for easy operation and clear visual data.
- **Efficient Startup:** Cold boot in approximately 30 seconds, warm boot in 3 seconds.
- **Currency Detection:** Includes a currency detection function.
- **Integrated Lighting:** Equipped with an LED light and backlight function for use in low-light conditions.
- **Perpetual Calendar:** Built-in calendar function.

Figure 9: Additional Features

This image highlights the currency detection, LED light, and backlight functions of the NF-198. It shows the device being used to detect currency, emitting light, and its screen with backlight activated.

6. Technical Specifications

Feature	Specification
Brand	NOYAFA
Model Number	NF-198

Feature	Specification
Item Weight	396 g
Package Dimensions	22.1 x 15.5 x 5.5 cm
Display Size	2.8 Inches (as per image, JSON says 8 Inches, 2.8 is more consistent with product image)
Resolution	1280 x 720 (likely for internal processing, not screen resolution)
Connectivity Technology	GPS
Operating System	Android (likely refers to internal OS, not user-facing)
Compatible Device	Vehicles, Android devices (for data export/connectivity)
Batteries Included	Yes
Lithium Battery Energy Content	3.7 Watt Hours
Lithium Battery Weight	0.85 Grams
Special Feature	Advanced Measurement and Tracking Capabilities

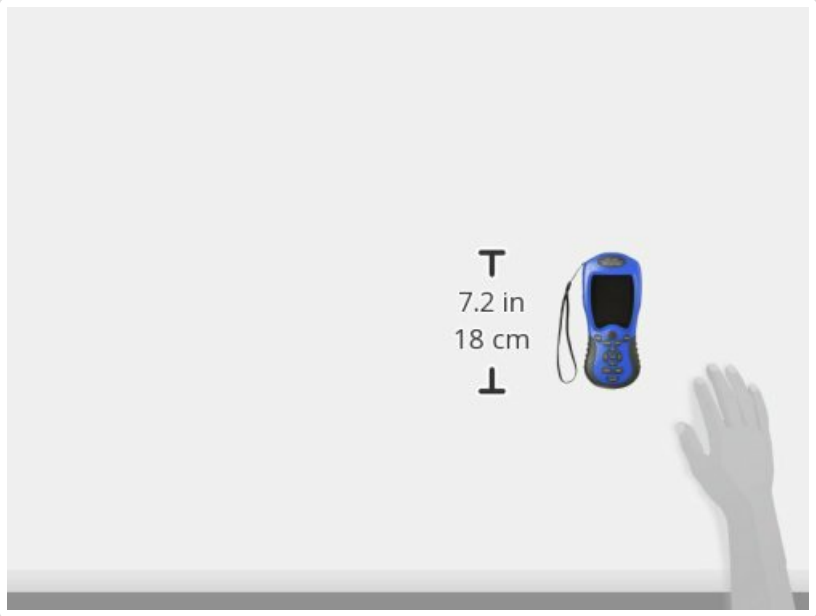


Figure 10: Device Dimensions

This image provides a visual representation of the NF-198's dimensions, indicating a height of 7.2 inches (18 cm).

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If the device will not be used for an extended period, fully charge the batteries and store them separately if possible, or periodically charge the device to maintain battery health.

8. Troubleshooting

If you encounter issues with your NF-198, consider the following:

- **No GPS Signal:**
  - Ensure you are outdoors and in an open area, away from tall buildings or dense tree cover.
  - Wait until the satellite signal indicator shows at least 6 satellites before starting measurement.
- **Inaccurate Measurements:**
  - Ensure a stable GPS signal (at least 6 satellites).
  - Avoid crossing your movement direction during measurement.
  - The device is not recommended for areas less than 180 square meters.
- **Data Export Issues:**
  - Ensure the device is properly connected to the computer via USB.
  - Verify that the necessary software or drivers are installed on your computer.
  - Note: Some older software versions for Google Earth export may no longer be compatible with current Google Earth versions.
- **Device Not Powering On:**
  - Check battery charge level. Connect to charger.
  - Ensure batteries are correctly installed.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Noyafa customer service directly. Keep your proof of purchase for warranty claims.

Related Documents - NF-198

	NOYAFA NF-198 GPS Land Meter User Manual Comprehensive user manual for the NOYAFA NF-198 GPS Land Meter, detailing its features, operation, specifications, and troubleshooting for accurate land area measurement.
	Noyafa NF-271 & NF-272L Laser Distance Meter Instruction Manual Comprehensive instruction manual for Noyafa NF-271 and NF-272L Laser Distance Meters, covering features, operation, specifications, and troubleshooting.
	NOYAFA NF-8506 Ethernet Cable Tester User Manual This user manual provides comprehensive instructions for operating the NOYAFA NF-8506 Ethernet Cable Tester, covering its functions, specifications, and packing list. It details various tests including continuity, cable tracking, port flash, cable length measurement, PoE test, Ping test, IP scan, and switch test.

	[NOYAFA NF-521 Thermal Imager Instruction Manual] Instruction manual for the NOYAFA NF-521 Thermal Imager, detailing its features, applications, technical specifications, and operation for accurate temperature measurement and thermal imaging.
	[NOYAFA NF-8508 Optical Wire Meter Tracer User Manual - Cable Testing Guide] Comprehensive user manual for the NOYAFA NF-8508 Optical Wire Meter Tracer. Learn about its features, functions, specifications, and how to use it for network cable repair, testing continuity, measuring length, PoE testing, and more.
	[Noyafa NF-271, NF-272L, NF-275L Laser Distance Meter Instruction Manual] Comprehensive instruction manual for Noyafa laser distance meters, covering models NF-271, NF-272L, and NF-275L. Details product features, operation instructions, specifications, and troubleshooting.

Documents - NOYAFA – NF-198

[NOYAFA Product Catalog: Cable Testers, Measurement Instruments, and Detectors]
Explore the comprehensive range of electronic testing and measurement instruments from Shenzhen NOYAFA Electronic Co., Ltd., including cable testers, thermal imagers, laser distance meters, stud finders, and various detectors. Find solutions for network, electrical, and environmental testing.
lang:en score:22 filesize: 9.1 M page_count: 16 document date: 2025-03-04

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