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NETALLY NXT-1000

NXT-1000, NXT Portable Spectrum Analyzer User Manual

Model: NXT-1000

INTRODUCTION

The NETALLY NXT-1000 is a USB-based portable spectrum analyzer designed for use with the EtherScope nXG. It provides comprehensive 2.4GHz and 5.0GHz Wi-Fi spectrum analysis capabilities, allowing users to visualize RF interference and channel utilization. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your NXT-1000.



Image: The NETALLY NXT-1000 Portable Spectrum Analyzer, a compact black USB device with an antenna and the NetAlly logo.

WHAT'S IN THE BOX

Verify that all components are present in the package:

- USB-based 2.4GHz/5.0GHz spectrum analyzer for EtherScope nXG



Image: An angled view of the NETALLY NXT-1000 Portable Spectrum Analyzer, highlighting its USB connector and antenna.

SETUP

1. **Compatibility Check:** Ensure your EtherScope nXG device is running the latest firmware version to support the NXT-1000. Refer to the EtherScope nXG user manual or NetAlly's support website for firmware update instructions.
2. **Connect the Analyzer:** Carefully insert the USB connector of the NXT-1000 into an available USB port on your EtherScope nXG. Ensure a secure connection.
3. **Antenna Orientation:** Position the antenna for optimal signal reception. For best results, ensure the antenna is not obstructed and is oriented vertically.
4. **Software Recognition:** Once connected, the EtherScope nXG should automatically detect the NXT-1000. Navigate to the spectrum analysis application on your EtherScope nXG to confirm recognition and begin use.



OPERATING INSTRUCTIONS

The NXT-1000 extends the capabilities of your EtherScope nXG for detailed Wi-Fi spectrum analysis.

Performing a Spectrum Scan

- Access Spectrum Analysis:** On your EtherScope nXG, open the "Spectrum Analysis" or "Wi-Fi Spectrum" application.
- Select Frequency Band:** Choose between 2.4GHz or 5.0GHz band for analysis, depending on your requirements.
- Start Scan:** Initiate the scan. The NXT-1000 will begin collecting RF data.
- Interpret Results:** The EtherScope nXG display will show real-time spectrum data, including channel utilization, interference sources, and signal strength. Pay attention to areas of high noise or overlapping channels.

Understanding Spectrum Graphs

The spectrum graph typically displays amplitude (dBm) versus frequency (GHz). Peaks indicate active signals, while a high noise floor suggests interference. Different colors or patterns may represent various types of interference or channel usage.



Image: An example of a frequency spectrum graph displayed on a screen, showing amplitude versus frequency for Wi-Fi channels.

Best Practices for Analysis

- Perform scans in various locations within your environment to identify localized interference.
- Identify non-Wi-Fi interference sources (e.g., microwave ovens, cordless phones) by observing their unique spectrum signatures.
- Use the data to optimize Wi-Fi channel selection and troubleshoot connectivity issues.

MAINTENANCE

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior of the NXT-1000. Do not use liquid cleaners or abrasive materials.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. When not in use, it is recommended to disconnect it from the EtherScope nXG.
- **Antenna Care:** Handle the antenna carefully to avoid bending or damaging it. Ensure it is securely attached during use.
- **Firmware Updates:** Regularly check for firmware updates for your EtherScope nXG, as these may include enhancements or bug fixes related to the NXT-1000's functionality.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
NXT-1000 not detected by EtherScope nXG.	Loose USB connection, outdated EtherScope nXG firmware, damaged NXT-1000.	Ensure the USB connection is secure. Update EtherScope nXG firmware. Try connecting to a different USB port if available. If issues persist, contact NetAlly support.
Inaccurate or no spectrum data.	Improper antenna orientation, high environmental noise, device malfunction.	Adjust antenna position for optimal reception. Move to a less noisy environment if possible. Ensure no physical obstructions are blocking the antenna.
Device gets unusually warm.	Extended use, poor ventilation.	This is normal during operation. Ensure the device is not covered and has adequate airflow. If it becomes excessively hot or exhibits abnormal behavior, disconnect it and contact support.

SPECIFICATIONS



Feature	Detail
Product Dimensions	3.22 x 1.21 x 0.45 inches
Item Weight	0.63 ounces (18 Grams)
Model Number	NXT-1000
Brand	NETALLY
Power Source	DC (USB-powered)
Color	Black
Connectivity	USB
Frequency Bands	2.4GHz / 5.0GHz
Compatibility	EtherScope nXG

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official NetAlly website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

NetAlly Official Website: www.netally.com

Support Resources: Online FAQs, knowledge base, and contact forms are available on the NetAlly support portal.

	<p>NetAlly AirCheck G3 Pro Wi-Fi 6 Wireless Analyzer Datasheet</p> <p>Comprehensive datasheet for the NetAlly AirCheck G3 Pro, a Wi-Fi 6 wireless analyzer offering Wi-Fi 7 visibility, 6 GHz spectrum analysis, advanced troubleshooting tools, and network mapping capabilities for IT professionals.</p>
	<p>NetAlly AirCheck G3 Quick Start Guide - Network Testing and Troubleshooting</p> <p>A concise guide to the NetAlly AirCheck G3, a handheld tool for testing and troubleshooting wireless networks. Learn about its features, setup, and connection to Link-Live.</p>
	<p>NetAlly EtherScope nXG Quick Start Guide: Portable Network Expert</p> <p>Quick start guide for the NetAlly EtherScope nXG, a rugged portable network expert for testing and analyzing copper, fiber, and Wi-Fi networks. Learn about its features, power-up, connection, and Link-Live integration.</p>
	<p>NetAlly EtherScope nXG: Quick Start Guide for Network Testing</p> <p>A concise guide to getting started with the NetAlly EtherScope nXG, a portable network expert for testing copper, fiber, and Wi-Fi. Learn about device features, power-up, basic testing, Android interface navigation, and connecting to Link-Live.</p>
	<p>LinkRunner AT 1000/2000 Network Auto-Tester</p> <p>LinkRunner AT 1000/2000 Network Auto-Tester PoE Link-Live</p> <p>LinkRunner Manager</p>
	<p>NetAlly AirCheck G3 Pro Wi-Fi 6 Wireless Analyzer Datasheet</p> <p>Datasheet detailing the NetAlly AirCheck G3 Pro, a Wi-Fi 6 wireless analyzer designed for efficient deployment, troubleshooting, and validation of wireless networks. Features include Wi-Fi 7 visibility, 6 GHz spectrum analysis, advanced AutoTest capabilities, and seamless integration with Link-Live for network management.</p>