NETALLY LRAT-1000

NETALLY LRAT-1000 LinkRunner AT Copper Ethernet Network Tester User Manual

1. Introduction

This manual provides comprehensive instructions for the NETALLY LRAT-1000 LinkRunner AT Copper Ethernet Network Tester. It covers device setup, operational procedures, maintenance guidelines, and troubleshooting steps to ensure effective use of the tester for network connectivity and availability verification.

2. What's in the Box

Verify that all components are present upon unboxing:

- NETALLY LRAT-1000 LinkRunner AT Tester
- AA battery pack
- 4 AA batteries
- LinkRunner Manager software (access details typically provided with product)
- USB cable
- Carrying case
- Quick Start Guide and Safety Information



Figure 2.1: NETALLY LRAT-1000 LinkRunner AT Tester and Included Accessories

3. Setup

3.1 Battery Installation

1. Locate the battery compartment on the rear of the LRAT-1000 tester.
2. Open the compartment cover.
3. Insert the 4 AA batteries into the battery pack, observing correct polarity.
4. Place the battery pack into the compartment and secure the cover.
5. It is recommended to charge the batteries for approximately 4 hours before initial use.

3.2 Powering On/Off

To power on the device, press and hold the power button located on the front panel until the display illuminates. To power off, press and hold the power button again until the device shuts down.

3.3 Connecting to a Network

To connect the LRAT-1000 to an Ethernet network, insert a standard RJ45 Ethernet cable into the LAN port located at the top of the device.



Figure 3.1: LAN Port on the LRAT-1000 Tester

4. Operating Instructions

The LRAT-1000 is designed for quick, automated verification of network connectivity and availability. It tests 10/100/1000 Mbps twisted pair Ethernet links.

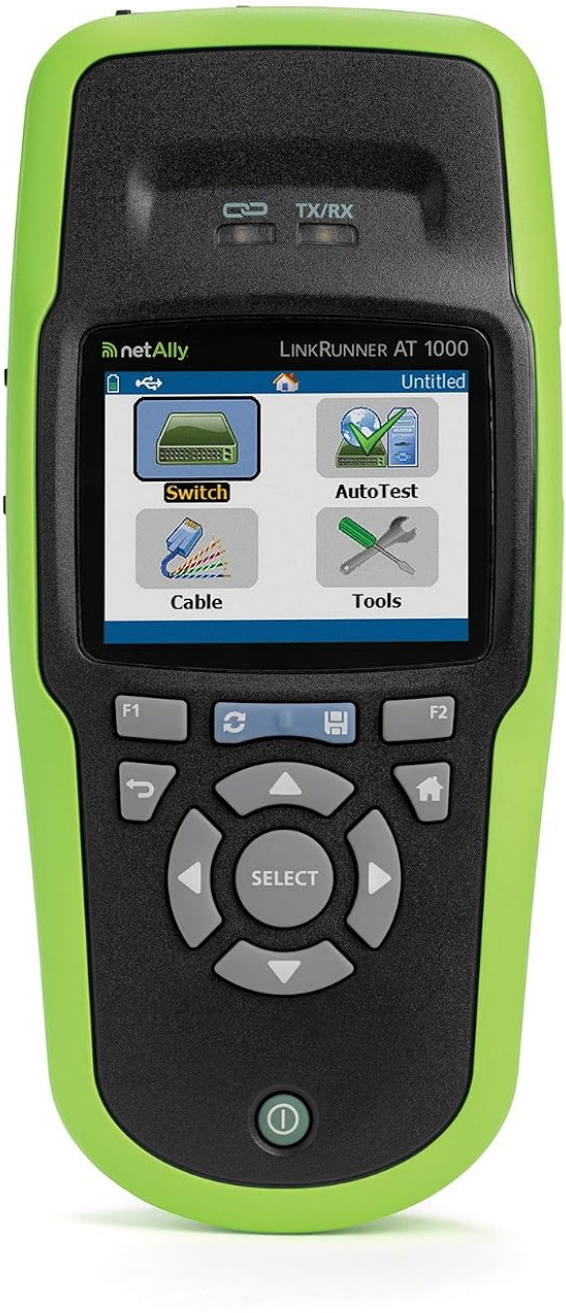


Figure 4.1: Front View of the LRAT-1000 Tester

4.1 AutoTest Function

The AutoTest feature accurately identifies network problems within approximately 10 seconds. This function performs a series of tests to quickly diagnose common network issues.

1. Connect the LRAT-1000 to the network port you wish to test.
2. From the main menu, select the 'AutoTest' option.
3. The device will automatically perform tests including link status, switch port identification, PoE, IP ping, and TCP port open checks.
4. Review the displayed results for network status and any identified issues.

4.2 Cable Testing

The LRAT-1000 provides basic cable tests to verify the integrity of Ethernet cables.

1. Connect one end of the Ethernet cable to the LRAT-1000's LAN port.
2. If testing a cable run, connect the other end to a WireView Cable ID connector (if available) or a loopback adapter.
3. From the main menu, select the 'Cable' option.
4. The device will display the cable's wiring scheme, length, and identify any faults such as opens, shorts, or split pairs.



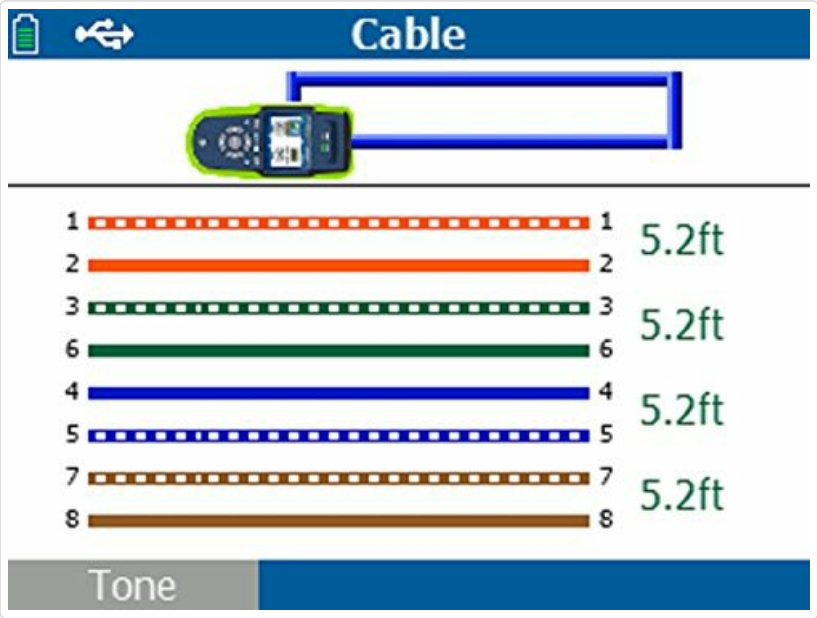


Figure 4.2: Cable Test Results (Good Cable and Open Circuit Example)

4.3 Ethernet Link and Switch Port Identification

The tester can identify Ethernet link speed and duplex settings, as well as switch port information (e.g., port number, VLAN ID) using protocols like CDP/LLDP.

4.4 Power over Ethernet (PoE) Testing

The LRAT-1000 can detect the presence and voltage of Power over Ethernet (PoE) on a connected port, indicating if sufficient power is available for PoE-powered devices.

4.5 IP Ping and TCP Port Open Tests

Perform IP ping tests to verify connectivity to network devices and check for open TCP ports on servers or services, aiding in application connectivity troubleshooting.

5. Maintenance

5.1 Cleaning

To clean the device, use a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off and disconnected from any network cables before cleaning.

5.2 Battery Care

If the device will not be used for an extended period, remove the batteries to prevent leakage. Use only the specified battery type (AA) for replacement.

5.3 Software Updates

Periodically check the NETALLY website for available software and firmware updates to ensure optimal performance and access to new features. Updates are typically managed via the LinkRunner Manager software.

6. Troubleshooting

6.1 Device Does Not Power On

- Ensure batteries are correctly installed and fully charged.
- Replace batteries with new ones if necessary.
- Verify the power button is pressed and held sufficiently.

6.2 No Link Detected

- Check the Ethernet cable for damage and ensure it is securely connected at both ends.
- Verify the network port on the switch or wall jack is active.
- Perform a cable test to rule out cable faults.
- Ensure the network device (switch, router) is powered on and functioning correctly.

6.3 Inaccurate Cable Test Results

- Ensure the cable is properly terminated and free from physical damage.
- If using a remote identifier, ensure it is correctly attached to the far end of the cable.
- Clean the RJ45 port on the tester if debris is suspected.

7. Specifications

Feature	Detail
Product Dimensions	4 x 8 x 2 inches
Item Weight	1.13 Pounds (18 Ounces)
Item Model Number	LRAT-1000
Batteries	4 AAA batteries required (included)
Power Source	Battery Powered
Color	Green/Black
Manufacturer	NetAlly
Date First Available	February 20, 2012

8. Warranty and Support

NETALLY offers various support options for the LRAT-1000. It is important to understand the differences between the standard warranty and the optional AllyCare support program.

8.1 Standard Warranty

The standard warranty typically covers manufacturing defects for a limited period (e.g., 90 days for manufacturing defects, 1 year for repair service). It includes basic access to the knowledge base and support for license, installation, registration, application launch, and warranty repairs.

8.2 AllyCare Support Program

AllyCare is an enhanced support program that provides extended benefits. Features of AllyCare include:

- Access to the latest software and firmware versions (for 1 or 3 years, depending on plan).
- Enhanced product features.

- Repair service coverage (for 1 or 3 years).
- Accessory repair coverage.
- Priority access to live technical support for product functionality and troubleshooting.
- Full knowledge base access.
- Member-only promotions.
- Online product 'Boot Camps'.

Feature	With AllyCare	Standard Warranty
Latest Software & Firmware Versions	1 or 3 years	90-day manufacturing defects only
Enhanced Product Features	Yes	No
Repair Service Covered	1 or 3 years**	1-year manufacturing defects only
Accessory Repairs Covered***	Yes	No
Access to Live Technical Support Team	Warranty support PLUS priority product functionality and issue troubleshooting	License, installation, registration, application launch and warranty repairs only
Knowledge Base Access	Yes	Yes
Member Only Promotions	Yes	No
Online Product "Boot Camps"	Yes	No

Figure 8.1: AllyCare vs. Standard Warranty Feature Comparison

Product Feature	With AllyCare	No AllyCare
Link-Live™		
Export for Survey PRO (Requires Survey v10) ****	Yes	Yes
Link -Live™ - View Survey Heatmaps		
Signal (dBm) Coverage (Passive & Active)	Yes	Yes
Additional Visualizations (Noise, SNR, Adjacent Channel Interference, Co-Channel Interference, AP Coverage, Beacon Overhead, Max TX/Rx rates, Max Tx/Rx MCS, Min Basic Rate, Tx Rate)	Yes	No
Link-Live™ Filtering - View Survey / View Analysis		
SSIDs	Yes	Yes
APs, Band, Channels, Channel Width, Min Basic Rates, Security, Type	Yes	No
EtherScope® nXG		
Cloud Remote Control	Yes	No
LinkRunner® 10G		
Cloud Remote Control (via Link-Live)	Yes	No
Network Discovery, Switch Management, Device Discovery, Topology/Path Analysis, Network Mapping (via Link-Live)	Yes	No

Figure 8.2: AllyCare Feature Comparison for Advanced Functionality

8.3 Additional Resources

For detailed documentation, including the full User Guide and Certificate of Compliance, please refer to the official NETALLY support website or the provided PDF documents:

- Certificate of Compliance (PDF)
- User Guide (PDF)
- User Manual (PDF)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question