Fluke Networks LRAT2-CIQ-GSV

Fluke Networks LRAT2-CIQ-GSV LinkRunner AT 2000/CableIQ Gigabit Service Kit

INSTRUCTION MANUAL

1. Introduction

The Fluke Networks LRAT2-CIQ-GSV LinkRunner AT 2000/CableIQ Gigabit Service Kit is a comprehensive solution designed for network technicians to analyze and test Ethernet networks over both copper and fiber optic cable infrastructures. This kit provides the necessary tools to quickly identify and troubleshoot network problems, assess cabling bandwidth, and verify network service availability.

Key capabilities include:

- Portable troubleshooting for Ethernet networks.
- Automated connectivity tests to diagnose network issues.
- Analysis of copper and fiber cabling, including 10M/100M/1G connections and Power over Ethernet (PoE) performance.
- Discovery of VLAN ports and switches to pinpoint potential problems.
- Measurement of DHCP and DNS service availability and responsiveness.
- CableIQ qualification for voice, 10/100/1000 Ethernet, VoIP, or CATV on various copper cabling types.
- IntelliTone Pro 200 probe for tracing and isolating copper cabling.

2. Package Contents

Upon opening your Fluke Networks LRAT2-CIQ-GSV kit, verify that all components are present and in good condition. The kit includes the following items:

Image: The complete Fluke Networks LRAT2-CIQ-GSV kit, showcasing the LinkRunner AT 2000, CableIQ tester, IntelliTone Pro 200 probe, various cable adapters, power supply, USB cables, Ethernet cables, CD, and carrying cases.

- LinkRunner AT 2000 Network Auto-Tester
- CableIQ Qualification Tester
- IntelliTone Pro 200 Probe
- Remote ID units (various types)
- Power adapters and international plugs
- USB cables
- Ethernet patch cables
- Coax cables
- RJ11/RJ45 adapters
- Software CD
- Carrying cases for LinkRunner AT and CableIQ
- User documentation

3. Setup

1. **Unpack Components:** Carefully remove all items from the packaging and inspect them for any signs of damage.

2. **Charge Batteries:** Before first use, ensure both the LinkRunner AT 2000 and CableIQ are fully charged. Connect the provided power adapter to the device and a power outlet. The charging indicator will show the status.

3. **Power On:** Press and hold the power button on each device until the display illuminates.

4. **Initial Configuration:** Follow the on-screen prompts for initial setup, which may include language selection, date, and time settings.

5. **Software Installation (Optional):** If you plan to use the included software for reporting or advanced analysis, install it on your computer using the provided CD or by downloading the latest version from the Fluke Networks website.

4. Operating Instructions

This section provides a general overview of operating the LinkRunner AT 2000 and CableIQ. For detailed instructions on specific tests and advanced features, refer to the comprehensive user manual PDF available online.

4.1. LinkRunner AT 2000 Basic Operation

1. **Connect to Network:** Plug an Ethernet cable from the network port you wish to test into the LinkRunner AT's main port.

2. **AutoTest:** The LinkRunner AT will automatically perform a series of tests, including link status, duplex, speed, PoE, DHCP, DNS, and gateway connectivity.

3. **View Results:** The display will show a summary of the test results. Navigate through the screens using the directional buttons to view detailed information for each test.

4. **Cable Test:** Use the cable test function to verify cable integrity, length, and wiring. Connect a remote ID unit to the far end of the cable for comprehensive testing.

4.2. CableIQ Basic Operation

1. **Select Test Type:** Power on the CableIQ and select the desired test type (e.g., Discover, Qualify, Troubleshoot).

2. **Connect Cable:** Connect the cable to be tested to the CableIQ's port. For qualification tests, connect a remote ID unit to the far end.

3. **Run Test:** Initiate the test. The CableIQ will analyze the cable's performance and determine if it can support specific network speeds (e.g., 100BASE-TX, 1000BASE-T).

4. **Interpret Results:** The display will show the qualification result (Pass/Fail) and provide details on any detected issues such as opens, shorts, or split pairs.

For more in-depth operational details, please refer to the official user manual:Fluke Networks LRAT2-CIQ-GSV User Manual (PDF)

5. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the devices. Do not use abrasive cleaners or solvents. Ensure ports are free of dust and debris.

- **Battery Care:** To maximize battery life, avoid fully discharging the batteries frequently. Store the devices with a partial charge if they will not be used for extended periods.

- **Storage:** Store the kit in its original carrying cases in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Firmware Updates:** Periodically check the Fluke Networks website for firmware updates to ensure optimal performance and access to new features.

6. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, consult the full user manual or contact Fluke Networks support.

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery; power button not pressed correctly.	Charge the device for at least 30 minutes. Ensure the power button is pressed firmly for a few seconds.
Network test fails or shows unexpected results.	Incorrect cable connection; network issue (e.g., port disabled, DHCP server down); device settings.	Verify cable connections. Check network infrastructure. Reset device to factory defaults if necessary.
Cable test shows errors (e.g., Open, Short).	Damaged cable; incorrect termination; faulty remote ID unit.	Inspect the cable for physical damage. Re-terminate connectors. Try a different remote ID unit.

7. Specifications

Feature	Detail
Model Number	LRAT2-CIQ-GSV
Product Dimensions	16.38 x 15.25 x 15.13 inches
Weight	0.04 ounces (Note: This weight seems unusually low for the kit and may refer to a single component or be an error in source data. Refer to official product documentation for accurate weight.)
Manufacturer	Fluke Networks
First Available Date	March 3, 2007

8. Support and Warranty

For technical support, warranty information, or to purchase accessories, please visit the official Fluke Networks website or their Amazon store.

- Official Fluke Networks Store on Amazon: Visit Store
- Full User Manual (PDF): Download PDF

Please retain your proof of purchase for warranty claims.