

# Six reasons why you should choose LinkRunner® G2 over LinkRunner® AT

While the LinkRunner G2 and LinkRunner AT are both network testers that help IT and System Integrators verify and troubleshoot Ethernet access networks, the LinkRunner G2 is a new class of Network Tester, with an Android-based operating system and a smartphone-like user interface.

The LinkRunner G2 includes test features that provide visibility, versatility, and value beyond the LinkRunner AT. With the LinkRunner G2, you can:

- 1. Ensure complete PoE Verification:** Test voltage and verify power from up to IEEE 802.3bt 90W PSEs and test voltage from PoE Injectors
- 2. Easily verify network readiness for Wi-Fi Access Point and VoIP phone deployment:** automatic VLAN visibility and support for DHCP Options 43, 60 and 150
- 3. Save time with configurable AutoTest for testing networks at different sizes or stages of completion:** “Stop After” feature for the AutoTest, unlimited number of IP Targets for connectivity test, “Continuous” test feature to verify connectivity consistency to IP Target, and large internal and external storage for test result and site data
- 4. Save time and get more done while connected to the switch:** Reduce trips back and forth to MDF/IDF. Detect link speed issues and switch port connection, take pictures and add comments to test results
- 5. Achieve faster MTTR with advanced troubleshooting functions:** Make problem escalation more efficient with features such as packet capture and VLAN monitor
- 6. Easily perform more tasks beyond testing with downloadable Android apps:** Configure devices, interact with corporate systems or the Internet with a web browser, and make a VoIP call with a softphone app

Depending on your specific network environment and your testing needs, the LR-G2 offers better value, as it provides better visibility, greater simplicity, and more collaboration opportunities than the LRAT-2000.



LinkRunner® G2

LinkRunner® AT

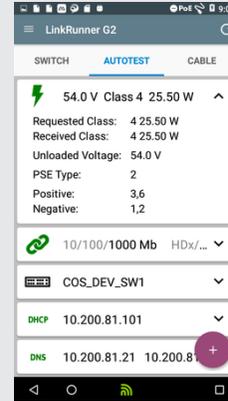
Capability Comparison			
Do you need	LRAT-1000	LRAT-2000	LR-G2
Test PoE 90W loaded			•
Test PoE Injectors			•
Support DHCP option 43, 60, and 150			•
Control the depth of AutoTest with “Stop After”			•
Test cable with open while connected to the switch			•
Document tests with built-in camera and scan barcode			•
Capture packets and escalate			•
Test and monitor VLAN trunk ports			•
Run Android apps to perform complete workflows			•
Test PoE 30W loaded		•	•
Performance Test Reflector		•	•
Perform Cable Test	•	•	•
Perform Switch Test	•	•	•
Perform DHCP, DNS, and Gateway Test	•	•	•
Test IP Target	10	10	Unlimited
Battery	AA X 4	Li-ION	Li-ION
Price	\$1,195	\$1,995	\$2,995

## 1. Ensure complete PoE verification

LinkRunner G2 is the only tool that can verify voltage and power at the end of the cable run, from 90W IEEE 802.3bt PoE PSEs. A load up to 71W can be applied while monitoring for any voltage drop. It can also verify voltage from PoE injectors above 10V.

### DID YOU KNOW?

LinkRunner® G2 and EtherScope™ nXG are the first smart network test and analysis tools on the market to include a built-in camera, flashlight, microphone, and speaker, making it easier to document issues with visual evidence and collaborate more effectively without needing a phone.



Verify voltage and power from an IEEE 802.3bt Class 8 PSE.

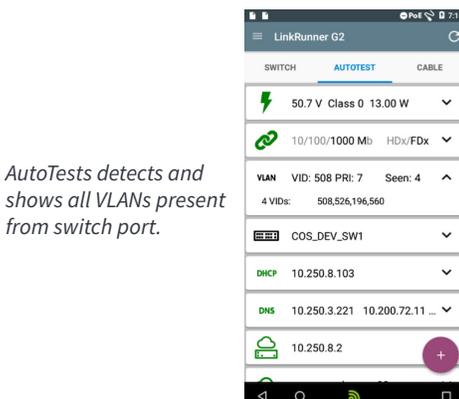
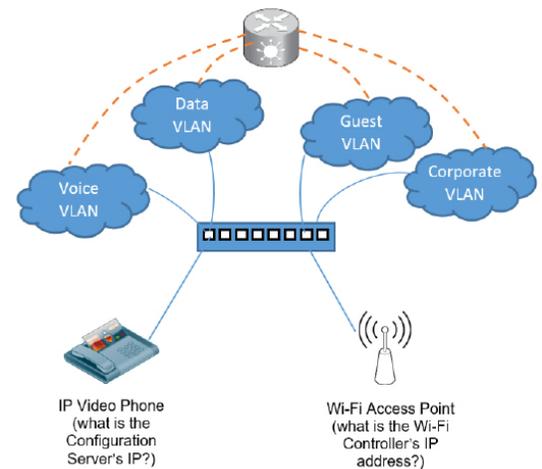


Verify voltage and the cable pairs used by a 24V PoE Injector.

## 2. Easily verify network readiness for Wi-Fi access points and VoIP phone deployment

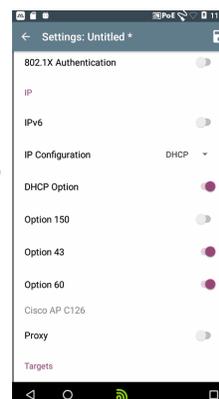
Network administrators often need to set up multiple VLANs on the switch ports that connect to Wi-Fi access points and VoIP phones. It helps to segregate traffic between SSIDs and manage quality of service (QoS). The LinkRunner G2 automatically analyzes traffic during AutoTest and can show all the VLANs present on a particular switch port.

When VoIP phones or Controller-based Wi-Fi access points connect to the network, many send DHCP requests with Option 60 to identify themselves to the DHCP server and obtain configuration information. The DHCP server replies with Option 43 to provide the Wireless LAN Controller's IP Address and Option 150 for the TFTP/Configuration Server's IP Address. LinkRunner G2 supports these DHCP options to verify the response from the DHCP server during the AutoTest. Network engineers can easily create test profiles to ensure the network's VLANs and DHCP options are correctly configured.

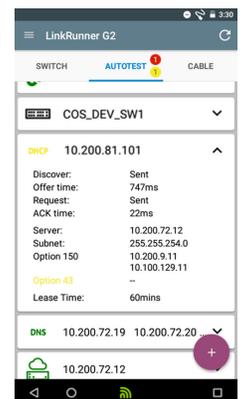


AutoTests detects and shows all VLANs present from switch port.

DHCP option setup.



DHCP AutoTest result with response by options.



### 3. Save time with configurable auto tests for testing networks at different sizes or stage of completion

In smart office/building projects and during deployment of digital lighting or security camera systems, some network services, such as DHCP, Gateway, or Internet Service, may not have been installed or provisioned. LinkRunner G2 includes the “Stop After” feature, which allows technicians to stop the AutoTest from testing undeployed services, saving time and providing an appropriate Pass/Fail assessment.

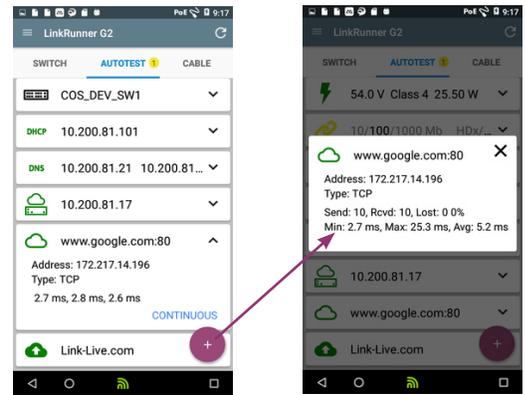
In a larger network, there are many servers or key devices to which connectivity needs to be verified. LinkRunner G2 supports Ping or TCP connect testing to an unlimited number of IP targets. Moreover, for each target tested and the default gateway, users can conduct a continuous Ping to verify connectivity consistency.

The LinkRunner G2 has 4GB of internal storage and comes standard with an 8GB Micro-SD card to temporarily save hundreds of test results, images, and site data. The data will not be lost, even when the unit is powered down. When the LinkRunner G2 connects to the Link-Live Cloud Service over the Internet, all test results and site data stored on the unit are uploaded automatically with the next test result.

### 4. Get more done while connected to the switch

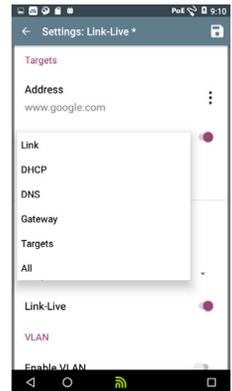
Unlike cable testers, the LinkRunner G2 Network Tester verifies both the cable and the network without needing to disconnect the cable from the switch. It saves the technician significant time by eliminating walking back and forth between the client location and the MDP/IDF.

The LinkRunner G2 detects the speed capability advertised by the switch port and verifies if it can connect at the highest speed possible. When it can't connect at the highest speed advertised by the switch, it will highlight the link test result as Yellow. For most Gigabit Ethernet Switches, this problem is the result of an open on-cable pair 4/5 or 7/8. When the LinkRunner G2 connects with 10M/100M under cable test, it can show the cable length on the 4/5 or 7/8 pair.



Conduct a “TCP Connect” test to an unlimited number of IP devices. Use the “CONTINUOUS” function to perform the test continuously to assess connectivity and response time consistency of a target.

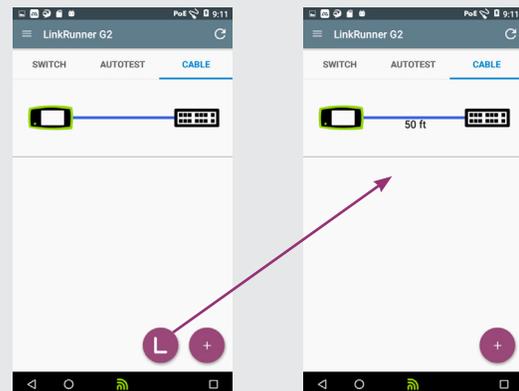
AutoTest “Stop After” feature to test only those network services that have been deployed.



AutoTest showing the Switch advertised at 1G, but the tester can only link at 100Mbps.

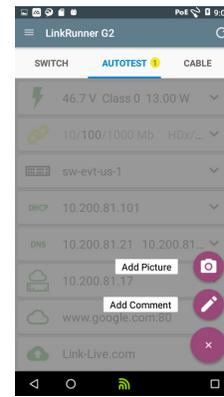


When connected to a switch at 10/100Mbps, the LinkRunner G2 can test for open on 4/5 or 7/8. A FAB (Floating Action Button) with an L will appear. Pressing the FAB will show the distance to the nearest open on the pair 4/5 or 7/8.



Like the LinkRunner AT, the LinkRunner G2 can generate a digital tone compatible with the Intellitone™ probe to trace the cable around the patch panel/cross-connect while the cable is connected to the Switch. If the connected switch supports CDP/LLDP, the LinkRunner G2 can also show the switch name and port connected, making cable tracing at the IDF even more straight forward.

Some users prefer to collect more environment information relevant to the AutoTest result. These could include images of Wi-Fi access point placement, cable jack/wall-plate condition, or equipment serial numbers. The LinkRunner G2 comes with a camera and flashlight to snap a picture, even in dark places. Users can also add comments, such as the label on cable/wall-plate. The LinkRunner G2 automatically stores and associates all images and comments with the last AutoTest result.



Directly take picture or add comment to the last test result.

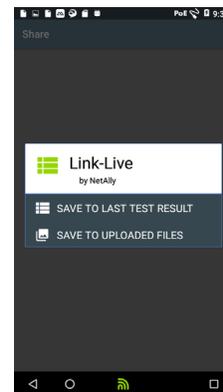


Built-in camera with flash to take an image in dark areas.

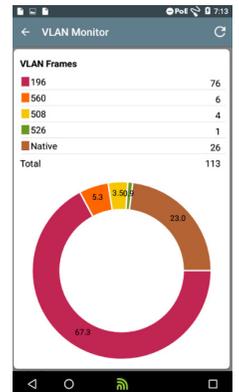
## 5. Achieve faster MTTR with advanced troubleshooting functions

The LinkRunner G2 offers more in-depth trouble-shooting features for onsite technicians to conduct greater analysis and collect more information to make problem escalation more efficient.

- Protocol Capture, up to 2GB and for frame size up to 9600 bytes, to collect evidence for solving performance and vendor software bug issues. Packet captures can be uploaded to Link-Live. The LinkRunner G2 can even power an inexpensive gigabit tap, via USB to support inline capture between a client and switch .
- VLAN Traffic Monitor shows the accumulative distribution of traffic from top VLANs, ensuring proper provisioning.



Packet captured can be associated with the last test result and uploaded to Link-Live.



VLAN Monitor shows the distribution of up to 9 VLAN tagged traffics on a trunk port.

## 6. Easily perform more tasks beyond testing with downloadable Android apps

The LinkRunner G2 empowers technicians to complete more tasks on-site without carrying additional tools. The large variety of Android apps available for download to the LinkRunner G2 from the Link-Live app store offer greater convenience and simplicity by augmenting the capabilities of the LinkRunner G2:

- Configure networking and/or IoT devices using a manufacturer’s app, SSH, or web-browser.
- Scan barcode/QR Codes or print labels to document network elements and cabling.
- Interact with trouble-ticketing systems or verify corporate systems, such as email, teleconferencing, softphone calls, and cloud storage.
- Conduct functional tests of networks or devices, using apps such as iPerf or Speed Test.

Any Android apps on the LinkRunner G2 can easily share results and screenshots to Link-Live.

Testing		Workflow			Configuration				
Throughput to Internet	iPerf Throughput Test	Remote Control	Email	Web Browser	Device Setup	Device Setup	Device Setup	Label Print/Scan Printing	Barcode/QR Code

Examples of Android apps available for use on the LinkRunner G2