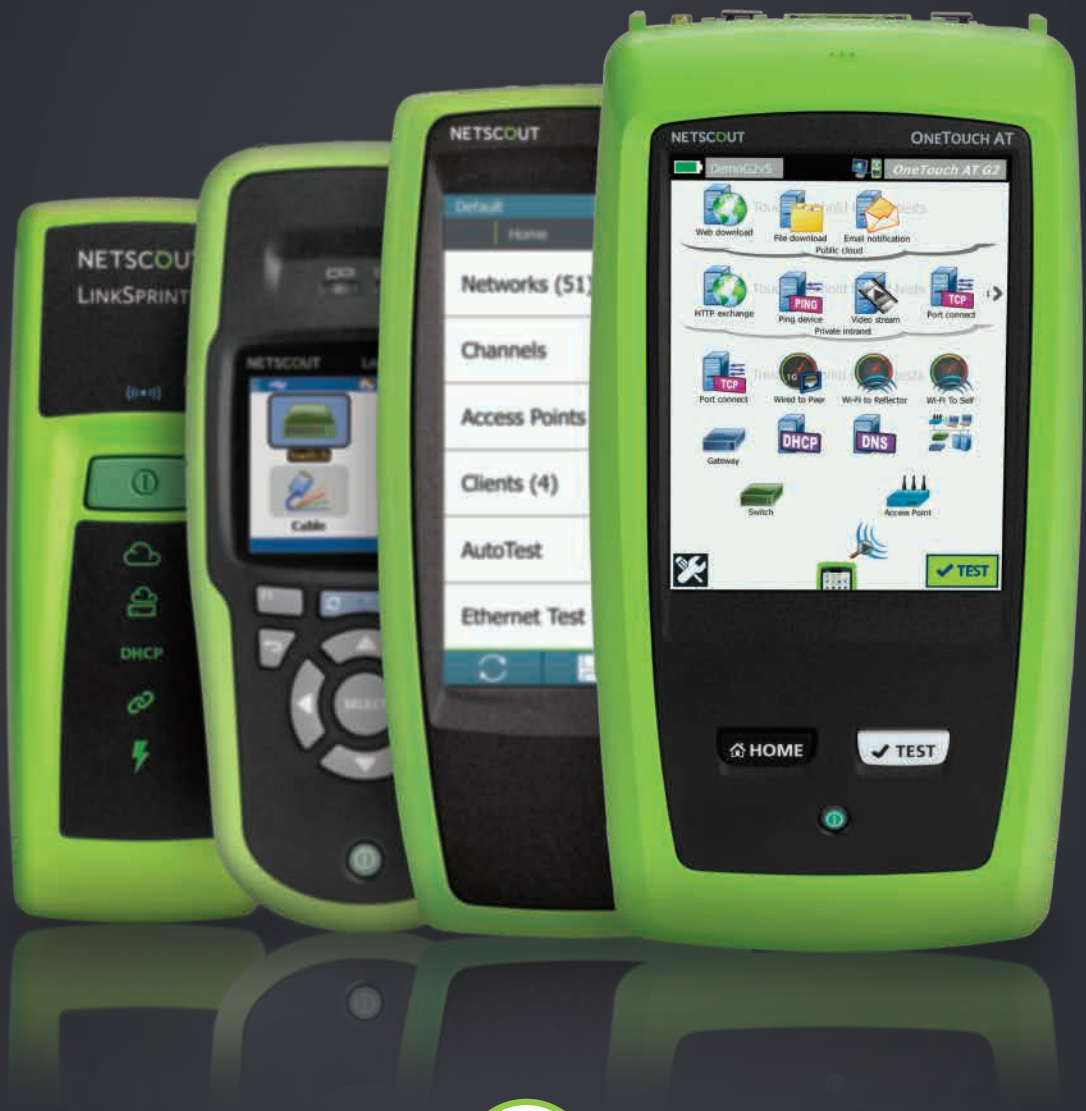
NETSCOUT®

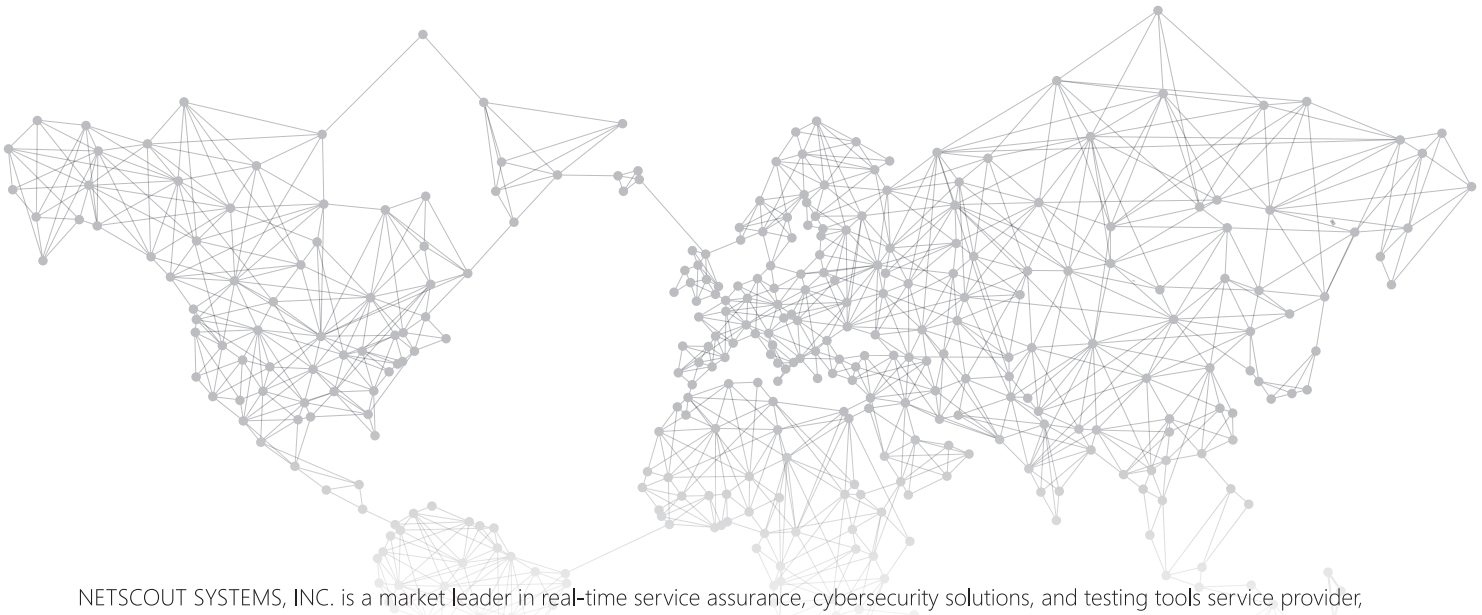


Link-Live

www.link-solutions.com

HANDHELD NETWORK TEST SOLUTIONS

Product Brochure



NETSCOUT SYSTEMS, INC. is a market leader in real-time service assurance, cybersecurity solutions, and testing tools service provider, enterprise and government networks. NETSCOUT's handheld wired tools help frontline technicians validate network connectivity and streamline productivity with simple interfaces. NETSCOUT's wireless network solutions are the most accurate tools for designing, deploying and optimizing 802.11 a/b/g/n/ac wireless LANs for maximized performance. From planning and deployment to ongoing network troubleshooting, the AirMagnet network tools span the entire WLAN lifecycle. NETSCOUT solutions offer frontline technicians a single source for both wired and wireless troubleshooting, including industry-leading LinkRunner® AT Network Auto-Tester, OneTouch® AT Network Assistant, AirCheck® G2 Wireless Tester, and the AirMagnet® line of wireless testing solutions.

CONTENTS

WIRED SOLUTIONS

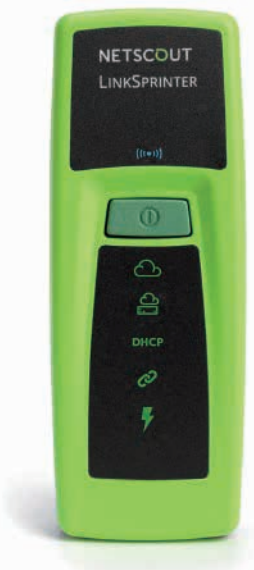
WI-FI SOLUTIONS

WIRED + WI-FI SOLUTIONS

LinkSprinter Network Tester

Test and Validate Network Connectivity in less than 10 seconds

- Power Over Ethernet (PoE) Tester diagnoses and tests Power over Ethernet (PoE), Link to the switch, DHCP, Gateway, and Internet connection
- Get VLAN, switch name, and port information via CDP/LLDP/EDP for your managed switches
- Expert network troubleshooting techniques delivered to color graded LEDs
- Automated reporting to Link-Live Cloud Service
- Get detailed test results sent directly to your email
- Proxy support



Overview

The LinkSprinter network tester provides network connectivity troubleshooting and identifies error problem domain in less than 10 seconds. Automated reporting to the included Link-Live Cloud Service Essentials ensures network connectivity status and path information is documented for every link.

Features :

Five essential network tests in the palm of your hand

Power Over Ethernet (PoE) Tester - This network tester can become a Power Over Ethernet - PoE tester that checks to make sure you can power a phone, security camera or Access Point through a specific port. The LinkSprinter Network Tester can even run without batteries on PoE.

Link to the Switch - Perform a switch test, which indicates switch name, model, slot, port and VLAN you are connected to using CDP/LLDP/EDP. Know your available speed and duplex settings.

DHCP Connection - Confirm that the DHCP server is running and responsive. Request an IP address, get your subnet information, trouble-shooting DNS, and identify the default gateway and DNS server.

Gateway Connection - Verify the gateway/router address and reachability by pinging the device.

Internet Connection - Confirm cloud connectivity or internal service reachability. Verify DNS server lookup and application port connectivity.

Link-Live Cloud Service

Welcome to Link-Live Cloud Service, a centralized management, collaboration and archival workspace for network connectivity test results from NETSCOUT's hand-held network testers. Test results are automatically sent to your secure Link-Live cloud account, providing organizations with a newfound ability to quickly and easily document their network, provide proof of performance and better manage jobs and staff efficiency. In addition, an e-mail of every test result is sent as it occurs, allowing the technician to annotate information about the test and even attached a photo. That annotation is then automatically added to that record in Link-Live, creating a very in-depth understanding as to the performance of each link and mapping endpoint images (wall jacks, devices, serial numbers) directly their switch slot and port.

Link-Live Cloud Service Features:

- Complementary, no annual service fees
- Supports all models of LinkSprinter, LinkRunner, and AirCheck G2
- Manage, sort and analyze test results
- Filter results by time, user, network device, errors, instrument, and more
- Add comments or photos to any test result
- Automatic filing of tests into specific folders
- Proxy support
- Buffer up to 10 test results

The LinkSprinter 200/300 network tester results can be accessed through the browser of any mobile device with its built-in Wi-Fi access point.

Android App

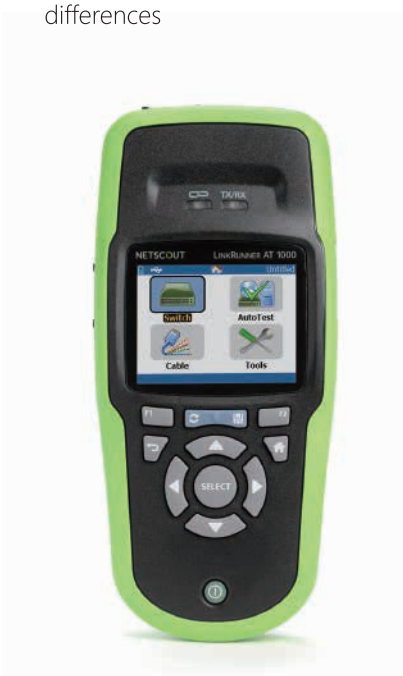
A companion application for the NETSCOUT LinkSprinter 200/300 network tester. Will automatically connect to the LinkSprinter's SSID and display detailed results of the network test.

LinkSprinter Features by Model	300
Diagnose and test Power over Ethernet (PoE), Link to the switch, DHCP, Gateway, and Internet connection	✓
Get VLAN, switch name, and port information via CDP/LLDP/EDP for your managed switches	✓
Expert network troubleshooting techniques delivered to color graded LEDs	✓
All test results are sent to the Link-Live Cloud Service	✓
Get detailed test results sent directly to your email	✓
Access your test results through your phone's browser by connecting to the built-in Wi-Fi access point	✓
Mobile App for Android (search "LinkSprinter" on google play)	✓
Proxy support	✓
See cable fault and distance to open or short	✓
Blink light on switch port	✓

LinkRunner AT Network Auto-Tester

Quick and complete copper and fiber network connectivity testing

- Accurately test and identify network connectivity problems with the 10 second AutoTest
- Network connectivity test for twisted pair and fiber optic Ethernet links at 10, 100 and Gigabit rates
- Verify twisted pair Ethernet cable length and wiremap with the Ethernet tester
- Measure Power over Ethernet under a load with the TruePower™ Power over Ethernet (POE) tester
- Discover the nearest switch and VLAN
- Save network connectivity test results on the network tester or in the cloud with zero-touch reporting
- Streamline management of network connectivity test results, reports, projects and staff with the companion Link-Live Cloud Service
- Select the right LinkRunner AT Network Auto-Tester for the job: LinkRunner AT Network Auto-Tester-2000 or LinkRunner AT Network Auto-Tester-1000. See the comparison chart for feature differences



Overview

The LinkRunner AT Network Auto-Tester is the quickest and most complete copper and fiber cable network connectivity tester. This rugged, handheld network tester speeds troubleshooting and reporting with a comprehensive one-button AutoTest and zero-touch Link-Live cloud reporting. The LinkRunner AT Network Auto-Tester performs your required set of network connectivity tests in 10 seconds, enabling you to quickly and accurately identify and solve network connectivity problems. Cloud reporting automatically uploads network connectivity test results to the Link-Live Cloud Service for reporting and project management.

Features :

- **Get Answers Fast** - With a three second startup and a user-defined AutoTest that performs your required set of connectivity tests in seconds, the LinkRunner AT network tester enables you to quickly and accurately identify and solve network problems.
- **Discover Nearest Switch and VLAN** - The LinkRunner AT uses the IEEE Link Layer Discovery Protocol (LLDP) plus the Cisco and Extreme Discovery Protocols (CDP and EDP) to display the VLAN and nearest switch model, slot, and port.
- **TruePower™ PoE Testing –** You can quickly validate PoE performance by drawing actual power up to the 802.3at standard 25.5W. Load the circuit to stress switches, cabling and patch panels, all while measuring the voltage and pairs being used. The ability to validate the TruePower delivery before installing cameras, APs and phones ensures smooth deployment.
- **IP V4/V6 Addressing** - Validate the IPv4 DHCP auto-negotiation process, subnet and DHCP server. Verify IPv6 Link-Local and Global addressing.
- **Key Service and Device Connectivity –** The LinkRunner AT performs either a Ping or a TCP port open test to verify connectivity. The connection to the default Gateway, preferred DNS server and alternate DNS server is tested, including response time. The connection to up to 10 user-defined target devices, servers or services is tested using Ping or a user-defined TCP port number. Results include response time and IP address if a URL was used as a target.
- **802.1x Authentication –** Verify access to secure networks using 802.1x and MAC Access Control Lists (ACL). The included LinkRunner AT Manager Software can be used to configure 802.1x EAP type, download certificates, and enter passwords.
- **Cable Length, Wiremap and Location –** Locate cable runs with toning, switch port advertisement, switch port link light blinking, and remote cable identifiers. Toning supports both analog and digital IntelliTone modes. Check patch cables using the built in wiremap port including pin-to-pin connection, or installed wiring for length, shorts, or opens or split pairs.
- **Packet Reflector –** The LinkRunner AT packet reflector mode allows it to be used as a remote device during end-to-end network path performance tests to validate LAN and WAN throughput capabilities up to 1Gbps. The reflector mode can be configured to swap MAC and/or IP addresses.
- **View and Manage Test Results** - Enable the Link-Live Reporting Mode to have AutoTest results automatically uploaded to the Link-Live Cloud Service. This zero-touch reporting feature speeds and simplifies reporting and ensures that results are consistently saved. Append comments to each test result. You can even add an image to a test result - a photograph of the link under test for example. Results can be

automatically saved to job-specific folders to simplify project management. Up to 10 results are held in memory in the absence of a network connection and uploaded later when a connection is available.

- **Multiple Language Support** - The LinkRunner AT fully supports multiple languages including English, French, German, Spanish, Portuguese, Russian, Japanese, and Simplified Chinese. Multi-language support included the LinkRunner AT user interface, getting started guide, user manual and supporting LinkRunner AT Manager software, help files and user reports.

LinkRunner Family Comparison Chart:

	Feature	LRAT-1000	LRAT-2000
Basic Test	10/100/100 RJ45 interface	✓	✓
	Solicit PoE voltage (802.3af)	✓	✓
	Link/DHCP/gateway	✓	✓
	Nearest switch (CDP/LLDP)	✓	✓
	Ping/TCP Port single target	✓	✓
UX	Color display	✓	✓
	AA battery pack	✓	Option
	Lithium Ion rechargeable battery	Option	✓
Cable Test	Length and distance to fault	✓	✓
	Flash switch port	✓	✓
	Integrated patch cable test	✓	✓
	WireView office ID/wiremap	Option	✓
	Toning (analog and IntelliTone)	✓	✓
Configurable	Configurable PoE class (802.3at)	✓	✓
	Configurable link speed/duplex	✓	✓
	Configurable MAC address	✓	✓
	Configurable VLAN ID	✓	✓
	Configurable 802.1X security	✓	✓
AutoTest	Continuous testing w/ stats	✓	✓
	>1 Ping/TCP target (up to 10)	✓	✓
	AutoTest profiles (up to 10)	✓	✓
Advanced	TruePower PoE load (25.5W)		✓
	100/1000 Fiber SFP interface		✓
	Line rate packet reflector (1Gbps)		✓
	IPv6 support		✓
Reports	Results saved locally on tester	10	50
	LinkRunner AT Manager PC software	✓	✓
	Link-Live Cloud Reporting	✓	✓
	Link-Live Cloud Service	✓	✓

AirCheck G2 Wireless Tester

The AirCheck G2 provides fast, simple, and accurate isolation and troubleshooting, thereby reducing the time to resolve wireless issues. AirCheck G2 simplifies wireless troubleshooting by providing:

- A rugged, handheld purpose-built wireless tester supporting the latest Wi-Fi technologies (802.11a/b/g/n/ac)
- A one-button AutoTest, which quickly provides a pass/fail indication of the wireless environment and identifies common problems
- An instant view of test results including network availability, connectivity, utilization, security settings, rogue hunting, and interference detection
- Connectivity to a centralized test results management platform, Link-Live, that facilitates greater job visibility, project control and fleet management for larger distributed environments

Overview

Wi-Fi is a complex technology, but testing it doesn't have to be. AirCheck G2TM Wireless tester is purpose built for the front-line IT responders dispatched to the complaints of: The Wi-Fi is not working or the Internet is down. The AirCheck G2 Wireless Tester provides fast, simple, and accurate isolation and troubleshooting, thereby reducing the time to resolution of wireless issues.

There are many variables that lead to Wi-Fi complaints, ranging from network based problems and configuration issues to environmental or client device misconfigurations. Collecting all the key pieces of information the very first time is key to every front-line IT responder to resolve any complaint.

The AirCheck G2's intuitive user interface and management platform provides actionable intelligence to not only remove the complexity of wireless troubleshooting but also helps speed up closure of the trouble ticket. The cost of not getting the job done right the first time, leading to an escalation team visit, leads to ineffective usage of the escalation team efforts & end-user dissatisfaction due to slow problem-solving response time. AirCheck G2 provides front-line IT with complete & accurate wireless information to solve problems right the first time, instead of blindly escalating them.

Features

- **New features in AirCheck G2 :**
  - 802.11ac 3 stream radio
  - 5" Touchscreen display
  - Ethernet tests for AP backhaul verification
  - Automatic uploads of basic connectivity tests to the Link-Live cloud service
  - Adjacent Channel Interference test in AutoTest
- **Touchscreen Display** - The AirCheck G2 Wireless Tester has a responsive 5" touch-screen display. The home screen offers easy navigation to drill down into: Networks, Access Points, Channels, Clients, Autotest and Ethernet Test
- **AutoTest** - Performs the following five essential Wi-Fi tests and a pass/fail indication of the wireless environment and identifies common problems — for any level of expertise. : 802.11 Utilization, Non-802.11 Utili zation, Co-Channel Interference, Adjacent Channel Interference and Network Quality.
- **Cloud Based Result Management**
- **Networks** - Quickly view all the networks present in the environment, and see critical parameters for each one including signal level, signal/noise ratio, security type, and number of access points. Find common issues such as mixed security types, poor signal coverage or lack of secondary AP coverage.
- **Access Points** - Quickly view all the APs present in the environment, and see critical parameters for each one including signal level, signal/noise ratio, security type, and channel. Find common issues such as incorrect security type, poor signal coverage or incorrect channel.
- **Network Connection Tests** - Verify network availability and access to critical services by connecting to a network (SSID) or AP with a single touch on the Connect button. Key test steps include: associate with AP, request and receive an IP address from a DHCP

server, ping the default gateway and DNS servers for availability, perform a ping or TCP port test to up to ten network targets, ongoing signal level, signal/noise ratio, and retry rate measurements. Once connected to a network, perform a roaming test to validate that roaming is enabled on the network.

- **Channel Utilization and Interference** - Quickly determine if channels are over-utilitized with 802.11 Wi-Fi traffic and/or with non-Wi-Fi interference and noise. Devices that can cause interference include microwave ovens, wireless game controllers, Bluetooth® devices, Zigbee devices and wireless video cameras. You can also drill in to see the level of Wi-Fi traffic and interference over the last 60 seconds on a selected channel, as well as the access points and clients using this channel.
- **Wired Ethernet Tests** - Access points must have a working backhaul connection to the network, and the AirCheck G2's built-in Ethernet test validates that : Diagnose and test Power over Ethernet (PoE), Link to the switch, DHCP, Gateway, and Internet connection; get VLAN, switch name, and port information via CDP/LLDP/EDP for your managed switches; automated reporting to Link-Live Cloud Service; get detailed test results sent directly to your email.
- **Client Details** - Track down rogue APs and unauthorized clients by following the real-time signal level meter and graph over time. Audible indication is provided, and the use of a USB headset for private audio is supported.

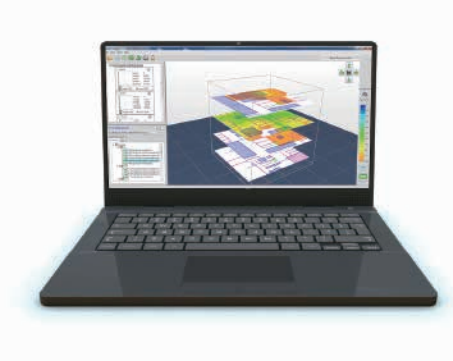
Models

Model Number/Name	Description
AIRCHECK-G2	AIRCHECK G2 WIRELESS TESTER. Includes soft case, AC charger, USB cable, Quick Start Guide.
AIRCHECK-G2-KIT	AIRCHECK-G2-KIT, AIRCHECK-G2 PLUS EXT-ANT-RPSMA, AUTO CHARGER, HOLSTER. Includes soft case, AC charger, USB cable, Quick Start Guide, external directional antenna, holster, automobile charger.
ACKG2-LRAT2000	NETWORK TROUBLESHOOTING KIT. Includes: - Aircheck G2 Wireless Tester, soft case, AC charger, USB cable, Quick Start Guide, external directional antenna, holster, automobile charger - LinkRunner AT 2000 tester with Li-ion battery, AC charger, IntelliTone PRO 200, Wireview Cable ID set 2-6, Large Folding Test Kit Pouch, Holster, RJ-45 coupler, LinkRunner AT Manager software CD, USB cable, Getting Started Guide, soft case - Deluxe duffle bag

AirMagnet Planner

Accurately plan and design a/b/g/n/ac wireless networks without rolling out any APs physically

- Design 802.11a/b/g/n/ac WLAN networks before rolling out any APs physically
- Optimize AP count and layout for maximized coverage and performance by modeling building construction materials/obstructions and APs
- Reduce spend on WLAN infrastructure by reusing services of APs across multiple floors by visualizing coverage and performance in the built-in multi-floor view
- Estimate WLAN deployment budgets
- Generate installer-ready Bill of Materials Reports
- Plan your migration strategies as new users or technologies are introduced
- Available in a standalone version & is also built into AirMagnet Survey PRO to help validate the WLAN model with real-world site survey data



Overview

AirMagnet Planner is a wireless network planning tool that accounts for building materials, obstructions, access point configurations, antenna patterns and a host of other variables to provide a reliable predictive map of Wi-Fi signal and performance, before the network is built or even the physical building is constructed. The solution without rolling out any APs physically, offers superior predictive modeling to determine ideal quantity, placement and configuration of APs for optimal security, performance and compliance.

As network engineers plan new technology rollouts, they must resist an easy temptation of performing a simple 1-to-1 replacement of the existing network with newer technologies like 802.11n and 11ac. Even though these 1-to-1 replacements are the fastest way for rollouts, they are not the best and often lead to poor network performance and finally costly rework. The use of professional tools like AirMagnet Planner helps define a migration strategy (rip and replace vs slow rollout) from existing 802.11a/b/g networks to 802.11n as well as 802.11ac networks. AirMagnet Planner also helps to estimate budgets and make "go/no-go" decisions before AP roll outs, so there are no more embarrassing or career-impacting decisions made blindly.

AirMagnet Planner can be purchased as a separate product or as a fully integrated feature of AirMagnet Survey. When integrated with AirMagnet Survey, users have a powerful solution that combines state-of-the-art predictive modeling with real-world performance data.

Features

- **Sophisticated WLAN Modeling** - AirMagnet Planner makes it easy to build a detailed model of any wireless environment, even before the network is deployed or the building is constructed. Simply load in a map of the location, and use the built-in library of walls, doors and windows to precisely match the building's characteristics. The environment can also be customized to account for cubicles, offices, elevators and a variety of warehouse obstructions. AirMagnet Planner provides full control of the proposed wireless infrastructure to the users. They can add APs to any location and experiment to find the ideal AP placement for the environment based on their requirements. AirMagnet Planner also provides full control over all AP settings with independent settings for 2.4 GHz and 5 GHz radios. Users can set the AP channel, IP address, transmit power, antenna type, orientation, height and 802.11n specifications. When the planning session is complete, users can generate a professional Bill of Materials report with all the information that is needed to properly install the network, and includes a complete list of required APs, their ideal placement and configuration settings. Along with RF coverage information, users are also powered with performance metrics such as data rates and throughput. AirMagnet Planner also includes an "advisor feature" to automatically place APs on site floor plans.
- **802.11ac and 802.11n Modeling** - AirMagnet Planner is the WLAN industry's only planning solution that covers all aspects of a successful 802.11ac and 802.11n deployment: migration, performance prediction and validation. Users can design new 802.11ac and 11n networks, as well as, plan their migration strategies for existing legacy networks, including one-to-one replacements or the phased introduction of 802.11ac or 11n devices into their legacy network. Users can plan their 802.11ac and 802.11n deployments for maximized performance without any physical AP rollout and are powered with unique coverage maps for WLAN throughput and other technology specific heat maps such as signal coverage maps, Operating Modes, MCS Transmit Rate, Channel Width and

Channel Overlap, to predict the WLAN performance at every location on the floor, and provide the best design that minimizes any rework once the network is deployed. Since AirMagnet Planner is part of a single, seamless application with AirMagnet Survey PRO, users can validate "modeled" 802.11ac and 11n results against "real-world active" post-deployment surveys.

- **Multi-Floor Modeling** - As users plan and design wireless access in multi- floor buildings, it makes economic sense to reuse services of APs to lower equipment deployment costs. With AirMagnet Planner's new multi- floor planning capability, users can visualize coverage and performance heat maps in 2D and 3D across floors providing powerful insight into bleed over to adjacent floors. Users are powered with visualizations of signal strength, data rates, 802.11ac and 11n coverage maps such as Operating Mode, MCS Transmit Rate, Channel Width and Channel Overlap between floors and more.
- **Custom Antenna Design** - AirMagnet Planner includes over 300 of the most popular antenna patterns on the market for customizing APs, including Cisco, Aruba, Ruckus Wireless, Meru Networks, HP, Symbol, 3Com, Bluesocket, Motorola, D-Link Systems, Samsung, Meraki, Juniper, Xirrus, etc. AirMagnet Planner also includes a built-in tool to create customized antenna patterns, allowing users to replicate the characteristics of literally any available antenna.
- **Integration with WLAN Infrastructure Vendors** - Users can create and export planner projects directly to Cisco WCS. This saves users time and resources needed in setting up of maps, AP placement locations and other WLAN deployment modeling activities by eliminating the need to repeat these tasks within Cisco WCS. This integration dramatically increases operational efficiencies for both AirMagnet and Cisco WCS users by eliminating the need to repeat wireless planning and site survey tasks commonly associated with deployment and ongoing management of a WLAN network.

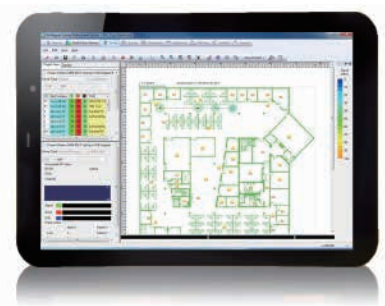
Models

Model Number/Name	Description
AM/A4012	AirMagnet Planner (Standalone)
AM/A4018	AirMagnet Survey PRO (includes Planner)
AM/A4013-UGD	AirMagnet Planner Module (upgrade from AirMagnet Survey Express or upgrade for existing A4015 customers)
AM/B4010	AirMagnet Survey Express (optional)

AirMagnet Survey

Design and deploy wireless 802.11n/a/b/g/ac LAN for optimal performance, security and compliance with wireless site survey software

- Design and deploy the most accurate indoor & outdoor wireless LAN network (802.11n/a/b/g/ac) correctly the first time with AirMagnet wireless site survey software and prevent costly rework & IT complaints
- Collect real-world data by performing unique true end-user experience (wireless LAN throughput, data rates, retries, losses) measurements
- Minimize expensive wireless 802.11n/a/b/g/ac LAN performance impact due to RF interference sources by performing simultaneous wireless heat map spectrum analysis in a single walk through
- Simulate "What-if" scenarios to prevent or minimize costly repeat wireless site survey walks
- Single-click wireless LAN network readiness verification for Voice over WiFi and Location Services
- Confidently certify the wireless network for any design/application requirements using customer-ready pass/fail assessment reports
- Customize WiFi site survey reports enabling efficient hand over of results based on wireless LAN design/application requirements
- Seamless integration with AirMagnet Planner to validate the estimated wireless LAN model
- Includes Survey Mobile app for Android based smartphones and tablets to design and validate your BYOD networks and survey for low end devices



Overview

AirMagnet Survey is the industry's most accurate wireless site survey software solution for mapping, planning and designing 802.11n/a/b/g/ac wireless LANs for optimal performance, security and compliance. This wireless 802.11ac site survey software calculates the ideal quantity, placement and configuration of APs for a successful wireless LAN deployment.

AirMagnet Survey's wireless site survey capabilities go beyond just verifying RF coverage, by plotting actual end-user network performance in terms of connection speed, throughput and packet statistics. The end result is a complete Wi-Fi heat map or "weather map" of all critical RF and end-user performance metrics helping users deploy the network correctly the first time and prevent costly rework & IT complaints.

Features

- **"Real-world" Survey Data Collection and Simulation of "What-If" Scenarios** - AirMagnet Survey allows users to perform active/Iperf surveys to ensure a superior site survey. During an active/Iperf survey, AirMagnet Survey associates to an AP to test the real quality of the connection. This allows surveyors to see how real world clients will perform at specific locations in terms of wireless network throughput, connection speed, retry rates, and packet losses. After a survey, users can simulate a variety of changes to the network and preview the impacts. This includes changing AP transmit power, channel, SSID settings or the addition of environmental noise. Users can also simulate moving APs to new locations and preview the effect of adding additional APs. AirMagnet Survey powers users with an automated channel plan for APs that avoids interference and over-allocation.
- **802.11ac Site Surveys** - NETSCOUT' AirMagnet Survey is the industry's only wireless network deployment solution that enables users to measure as well as assess true end user experience of a wireless network using an 802.11ac adapter. AirMagnet Survey goes beyond just verifying RF coverage, by plotting actual end user network performance in terms of throughput and PHY data rates, taking MIMO and other environmental situations/network configurations into account. This wireless 802.11n site survey solution clearly shows the coverage of specific 802.11ac parameters that boost performance such as higher MCS schemes and wider channels, and where interference and legacy components may impact 802.11ac performance. The end result is a complete Wi-Fi "weather map" of all critical RF and end user performance metrics.
- **802.11n Site Surveys** - AirMagnet Survey includes the industry's only 802.11n site surveys that take into account the real-world impact of multipath encountered at each individual location to actively test both uplink and downlink performance of the 802.11n Wi-Fi network. Users can design and deploy Wi-Fi networks that employ APs with three spatial streams and deliver performance at data rates up to 450 Mbps (software is ready for up to 600 Mbps). AirMagnet Survey PRO includes built-in coverage maps that are specific to 802.11n networks, such as Operating Mode coverage map, MCS Rate Transmit/Receive coverage map and the Channel Width coverage map.
- **Validate User and Application Requirements** - The AirWISE® engine lets users set wireless network design/application requirements including signal coverage, wireless network throughput, PHY data rates, 802.11n specific parameters, etc. for their network and immediately identify any problem areas. Users are then alerted to the areas on the floor map that meet or do not meet the requirement, enabling them to take the necessary action to solve the coverage, performance or capacity problems.

- **Unique RF Spectrum and Voice-over-WLAN Surveys** - Before making any design and deployment decisions, it is important to account for RF interference from non Wi-Fi devices. Users who own AirMagnet Spectrum XT can collect both Wi-Fi and spectrum analysis data in a single survey. With this integration, users can visualize the RF energy at any location and identify and display the presence of non-802.11 devices interfering with the WLAN. Users also have the ability to visualize the average power level in the RF spectrum for each channel at any given point on the map.
- **Professional Custom Reports** - AirMagnet Survey PRO includes a completely integrated reporting module that can instantly create custom outputs of site surveys and simulations. Additionally, customized templates provide wireless 802.11n site survey users with the flexibility in terms of creating reports that vary based on project requirements. Users can choose to include/exclude sections, add in their notes, customize their logos, headers and footers amongst many other customizable options. Reports can be output in over 15 formats including PDF, XML, HTML, Excel and Word.
- **Visualize Coverage and Perfo rmance Differences Over Time** - Wi-Fi environments are very dynamic and it is im ature allows side-by-side visualizing of differences between two separate surveys. This helps show how a site's wireless environment has changed over time. This view is also a great option for our System Integrator customers to drive repeat business of validating the coverage and performance of the network on an on-going basis.
- **Outdoor Wireless Site Surveys** - With the combination of GPS support and integration with Google Earth, Microsoft® MapPoint and Microsoft® Bing Maps, AirMagnet Survey PRO provides a clear path to fast, fully automated outdoor wireless site surveys. Users can leverage their NMEA compliant GPS device to automatically collect outdoor wireless data. Users can import street maps of any city in the world using Bing Maps and then the results can then be analyzed in the AirMagnet Survey user interface or exported into Google Earth for a zoomed in view to any street within the city.
- **Integration with AirMagnet Planner** - AirMagnet Planner is built into AirMagnet Survey PRO, providing a single, seamless application with the industry's most complete approach to wireless LAN design, deployment and ongoing optimization for 802.11a/b/g/n/ac networks. With this integrated solution, AirMagnet Planner can be used to accurately design WLANs by modeling building construction materials/obstructions and 802.11 APs and visualizing coverage across multiple floors, then validating the results with real-world data in AirMagnet Survey PRO. Using active end-user performance metrics, users can further perfect their planning models over time.

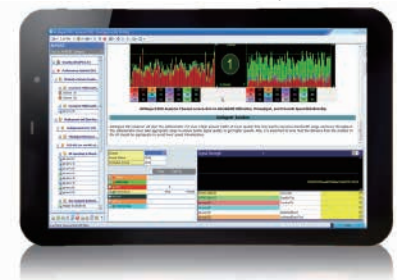
Models

Model Number/Name	Description
AM/A4018	AirMagnet Survey PRO (Incl. Planner)
AM/B4010	AirMagnet Survey Express
AM/A4016G	AirMagnet Survey Express to Survey PRO (upgrade model)
AM/A4013-UGD	AirMagnet Planner Module for existing A4015 customers
AM/B4070	AirMagnet Spectrum XT (optional)
AM/C1095	AirMagnet Multi-adapter kit for Survey (US, World Mode and Japan versions available)
AM/C1080-JP	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter (Japan Only)
AM/C1080-US	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter; For countries that follow FCC & IC
AM/C1080-WD	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter; For countries that follow CE
AM/C1097	NETSCOUT 802.11 A/B/G/N/AC 3X3 Express Card Adapter.

AirMagnet WiFi Analyzer Pro

Anytime, Anywhere, Wireless Network Monitoring and WiFi Troubleshooting with the AirMagnet WiFi Analyzer Pro

- Wireless network monitor provides real-time accurate, independent and reliable Wi-Fi analysis of 802.11a/b/g/n and ac wireless networks, including 3 X 3 802.11ac wireless network analysis without missing any traffic
- Highly portable wireless network analyzer that travels to the source of the wireless network trouble-shooting problems enabling faster and accurate fault-finding without any AP downtime
- Dedicated WiFi network monitor-ing and troubleshooting software solution guaranteeing any wireless network fault detection as compared to "time-slicing monitoring functionality" built inside the wireless network infrastructure
- Wireless network monitor and WiFi troubleshooting reduces IT costs, simplifies workload and minimizes user complaints by obtaining instant answers to ANY wireless network connectivity, WiFi signal strength, wireless network performance, roaming, interference* and wireless network security issues using the AirWISE intelligence engine WiFi Monitoring Software
- Unique wireless network monitor active toolset to isolate and troubleshoot WiFi connectivity and monitor wireless network performance issues
- Strengthen your wireless network security by monitoring, detecting and eliminating any wireless network threats and vulnerabili-ties
- Auditor-ready WiFi Security compliance reporting for multiple verticals including wireless PCI compliance, SOX, ISO and many more
- Troubleshoot BYOD induced performance and monitor wireless network security issues



Overview

AirMagnet WiFi Analyzer is the industry standard WiFi analysis and monitoring software tool for mobile monitoring, auditing and WiFi troubleshooting enterprise WiFi networks. AirMagnet WiFi Analyzer helps IT staff quickly solve end-user issues while automatically detecting WiFi signal strength, security threats and wireless network vulnerabilities. The WiFi network analyzer enables wireless network manag-ers to easily test and diagnose dozens of common wireless network performance issues including throughput issues, WiFi connectivity issues, device conflicts and signal multipath problems. AirMagnet WiFi Analyzer is the industry's most accurate 802.11ac WiFi network troubleshooting and optimization tool that never misses any WiFi traffic and helps solve problems right the first time.

Features

- **Never Miss Any Wi-Fi Traffic** - With AirMagnet WiFi Analyzer, you have the ability to capture any Wi-Fi traffic for 802.11a/b/g/n/ac networks, including the latest 3 X 3 802.11ac traffic.
- **Built-In Wireless Expertise** - The AirWISE® engine automatically detects the root cause of dozens of wireless network troubleshooting issues across the spectrum AirWISE® eliminates the need for users to manually interpret complex packet decodes and wireless data by taking the proactive role of identifying and explaining more than hundreds of threats and performance issues before they impact the Wi-Fi network.
- **Portable Wi-Fi Troubleshooting Solution With No AP Downtime** - Many of the AP Infrastructure solutions claim built-inside troubleshooting with partial scanning or full time scanning options. Both of these Wi-Fi network monitoring options have severe limitations on solving problems.With AirMagnet WiFi Analyzer, all of these limitations are enabled with full-featured dedicated on-site Wi-Fi troubleshooting with zero AP downtime.
- **Instant Alerts to WLAN Security and Performance Issues** - AirMagnet WiFi Analyzer automatically detects and alerts the user to dozens of wireless intrusions, penetration attempts and Wi-Fi hacking strategies including rogue devices, "stumbler tools", devices sending unencrypted data and a host of potentially damaging wireless security configurations. The AirMagnet WiFi Analyzer Find tool locks onto rogue or policy violating APs or stations and guides the user to their physical location.
- **Wireless Network Health Summary** - AirMagnet WiFi Analyzer provides users with the complete inventory of the devices, including APs, clients and smart devices that are operating in the environment. For each device, users are powered with detailed configu-ration information and traffic statistics for each device. AirMagnet WiFi Analyzer also includes a dashboard that provides a live snapshot into the overall health of the wireless network and helps users focus on top issues that need immediate attention to ensure maximized wireless network security and performance.
- **Wireless Network Troubleshooting** - Along with the unique capability of providing instant answers with AirWISE, AirMagnet WiFi Analyzer users are provided with in-depth frame statistics for every channel and device operating in the spectrum. With the channel utilization and throughput trending graphs, users can troubleshoot many of the issues that lower the overall performance of the wireless network. AirMagnet WiFi Analyzer users can view trending graphs for signal strength, noise, frames, errors, retries, bandwidth and many more for every wireless network channel and device.
- **WLAN Client Roaming Analysis** - AirMagnet WiFi Analyzer provides advanced details on all roaming transactions for any WLAN client including stations, phones, and handheld scanners. Users are powered with AirWISE® expertise to get detailed reasons

for the roaming event taking place, device and channel parameters that influence the roam, and visibility into whether the roam was good or not.

- **Active Wi-Fi Troubleshooting Tools to solve user complaints** - AirMagnet WiFi Analyzer PRO is the industry's only wireless network analyzer that includes a suite of active Wi-Fi troubleshooting tools to quickly pinpoint and solve wireless network troubleshooting problems. This includes users not being able to connect to the network, users experiencing slower connections to the network or WLAN applications, 802.11n and 802.11ac mis-configurations, traffic/infrastructure overloads, hardware failures, roaming problems, multipath interference problems and more. With these Wi-Fi troubleshooting tools available at the user's fingertips, they can solve any kind of problem that are impacting the network performance.
- **Complete Wi-Fi Interference Detection & Wi-Fi Analysis** - AirMagnet WiFi Analyzer's interference status indicator lists the overall interference status for each Wi-Fi channel, calculated based on the Wi-Fi interference score for the devices contributing to the interference; a list of hidden nodes and non-Wi-Fi devices (non- Wi-Fi detection requires AirMagnet WiFi Analyzer PRO and RF spectrum analyzers installed on the same machine) operating in the channel. This enables users to easily plan future Wi-Fi deployments or modify their existing deployment to minimize interference and in turn improve network performance.
- **Integrated Reporting** - AirMagnet-WiFi Analyzer PRO's integrated reporter makes it easy to turn Wi-Fi analysis sessions into professional customized Wi-Fi network monitoring reports. Choose from a library of pre-built reports or generate targeted reports by selecting specific items of interest from the user interface. Wi-Fi network monitoring reports cover all areas of management including RF statistics, channel reports, device reports, security/performance issue reports and auditor-ready compliance reports for a variety of regulatory standards .
- **BYOD Classification** - AirMagnet WiFi Analyzer PRO instantly detects and classifies smart phones and tablets that connect to the network. This capability allows IT professionals to authorize these devices, quickly troubleshoot and resolve issues caused by these devices as well as determine performance and security impact to the WLAN network.
- **802.11ac Analysis and Troubleshooting** - AirMagnet WiFi Analyzer is the industry's only wireless network analyzer that does not miss any 802.11ac traffic with full 3 X 3 support and can solve any problems on the 802.11ac network. More importantly all of this is done with full time scanning and by traveling to the location of the problem for more effective troubleshooting with zero AP downtime (no need to take the AP offline for monitoring and troubleshooting) as compared to reusing the AP for the purpose or other tools that rely on fixed APs for troubleshooting.

Models

Model Number/Name	Description
AM/A1150	AirMagnet WiFi Analyzer PRO
AM/B4070	AirMagnet Spectrum XT (optional)
AM/C1090	AirMagnet Multi-adapter kit for WiFi Analyzer (US, World Mode and Japan versions available)
AM/C1080-JP	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter (Japan Only)
AM/C1080-US	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter; For countries that follow FCC & IC
AM/C1080-WD	PROXIM ORINOCO 8494 802.11A/B/G/N USB Adapter; For countries that follow CE
AM/C1097	NETSCOUT 802.11 A/B/G/N/AC 3X3 Express Card Adapter.

AirMagnet Spectrum XT

With the wireless spectrum analyzer software, proactively identify and locate any radio frequency (RF) interference impacting WiFi network performance.

- Industry's only professional and USB-based RF interference wireless spectrum analyzer software for the Wi-Fi band (2.4/5/4.9 GHz).
- Confidently rule out any radio frequency (RF) interference-generated impact on WiFi network performance and maximize wireless interference troubleshooting efficiency.
- Get the job done right the first time and prevent costly rework by driving to root cause of WiFi interference and network performance issues with zero-day RF Interference Intelligence to identify, classify and locate non WiFi interference sources.
- Minimize wireless network interference troubleshooting effort and time by not having to interpret "squiggly lines" or manually match classification patterns, and instead be powered by the industry's largest classification database and auto pattern recognition that helps identify any RF interference source in the world.
- Prioritize WIFI interference troubleshooting activities and reduce time to locate and fix wireless network issues with the WiFi spectrum analyzer built-in WiFi impact analysis capability.
- Dedicated wireless network troubleshooting solution guaranteeing RF interference-related fault detection as compared to "time-slicing monitoring functionality" or "AP-centric views" built inside the wireless network infrastructure.
- Maximize your AP infrastructure investment and wireless network performance by choosing the strongest and cleanest Wi-Fi channel without RF interference.

Overview

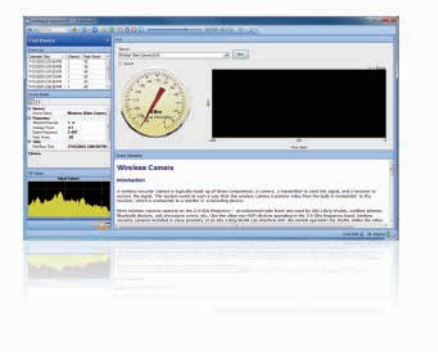
AirMagnet Spectrum XT is the first and only professional WiFi spectrum analyzer software solution that combines in-depth radio frequency interference analysis with real-time wireless spectrum analysis for quicker and more accurate troubleshooting of wireless network performance problems. The real-time Wi-Fi spectrum analyzer's combined view of "impact analysis of RF interference" on the network's overall performance helps pin-point the root-cause of those problems.

AirMagnet Spectrum XT is the ideal real-time Wi-Fi spectrum analyzer software solution for network engineers and installers/integrators for troubleshooting and deployment of wireless LAN networks, and is available in the universal and convenient USB form factor, allowing this Wi-Fi spectrum analyzer software solution to be used on any notebook, netbook or tablet PC.

Features

- **Automatic Identification and Location of RF Interference Sources** - offers real-time detection and identification of a number of non Wi-Fi interference sources that interfere and lower the performance of wireless networks. The extensive device or source list includes bluetooth devices, digital and analog cordless phones, conventional and inverter microwave ovens, wireless game controllers, digital video converter, baby monitors, RF Jammers, radars, motion detectors, zigbee devices and many more.
  - Wi-Fi spectrum analyzer users are also powered with detailed information for the non Wi-Fi interference source, including peak and average power, first and last seen time, center frequency, impacted channels, number of times the source was detected, and many more. With an additional Bluetooth adapter plugged into the same PC, the AirMagnet Wi-Fi spectrum analyzer provides Bluetooth information such as ID, name, services, etc. for enhanced Bluetooth interferer analysis.
  - With the AirMagnet Wi-Fi spectrum analyzer's built-in "device locator tool", users can physically locate any Wi-Fi or non-Wi-Fi interference sources operating in the RF environment.
- **Integrated Reporting** - AirMagnet Spectrum XT's integrated report engine makes it easy to turn RF spectrum analysis sessions into professional reports. Customization features allow this Wi-Fi spectrum analyzer to generate reports on the RF spectrum graphs, Wi-Fi charts and the list of RF interference sources for the current environment. With the wireless spectrum analyzer, reports can be exported in the Word, RTF, PDF, HTML formats for handoff.
- **High-resolution RF Spectrum Diagnostic Views** - Key graphs and charts include: Real-Time FFT, Spectrum Density, Spectrogram, Duty Cycle, Channel Power, Interference, Channel Duty Cycle & Interference Power vs. Time Trending.
- **Visualize Impact of RF Interference on Wireless Network Performance** - To optimize and ensure top wireless network performance, the AirMagnet wireless spectrum analyzer introduces a revolutionary approach to wireless network troubleshooting that combines the power of RF spectrum analysis with WLAN traffic and device analysis. RF spectrum analyzer users can plug in any supported wireless adapter and instantly see a combined or co-related single screen view showing the impact of RF interference or interference sources on the overall true performance of the WLAN.

- Secure the Wi-Fi network by verifying "no Wi-Fi zones" and detecting intentional RF interference sources such as RF jammers.
- Accelerate deployment projects and minimize expensive wireless LAN performance impact due to RF interference sources by performing simultaneous Spectrum and Wi-Fi analysis in a single site survey walk through via integration with AirMagnet Survey PRO.
- Create customized reports to enable efficient hand over of results and RF interference issues found



- **"Zero-day" response to any RF Interferer** - AirMagnet wireless spectrum analyzer introduces the industry's first automated spectrum analysis capability that monitors the RF environment looking for unique and repeating RF interference patterns from these "unknown RF interference sources". Once the RF interference pattern of interest is detected and classified, users have the option of creating a customized signature for the pattern for future alerting.
- **Integeration with AirMagnet WiFi Analyzer and AirMagnet Survey** - AirMagnet WiFi Analyzer PRO AirMagnet Spectrum XT users running AirMagnet WiFi Analyzer PRO on the same PC can view non-WLAN interference for every channel in the RF spectrum.
- **Record and Playback** - AirMagnet Spectrum XT users can save their RF spectrum analysis scans, retain them as hard evidence and play them back at a later time for post-capture investigation and analysis. The handy 'jump-to' feature allows the user to quickly navigate within a capture file to the start time of any interferers captured during the scan. This is very helpful as critical forensic information while investigating any Layer 1 Denial of Service attacks against the WLAN network. The saved trace files can also be shared between users for collaborative analysis and trouble-shooting.

Models

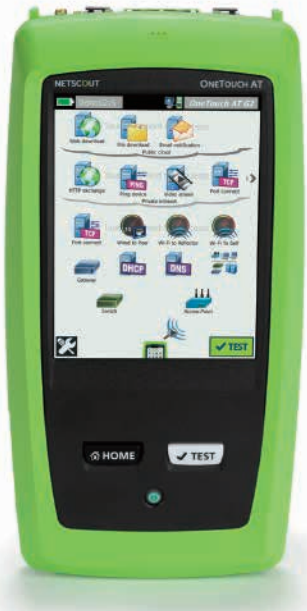
Model Number/Name	Description
AM/B4070	AirMagnet Spectrum XT (USB Based)
AM/A4040	AirMagnet Directional Antenna

Specifications	
Frequency range	2402 to 2494 MHz; 5160 to 5330 MHz; 5490 to 5710 MHz; 5735 to 5835 MHz; 4910 to 4990 MHz
USB Specs	Unit width 38.1mm; length 108.2mm; height 8 mm; weight 31.2 grams; operating temp: 0 to 70 C (32F to 158F)
DC power	Voltage supply 5 volts; Active Power: 2 Watts
Capture Limit	Dependent on Hard disk space
Amplitude accuracy	+/- 2 dB
Resolution Bandwidth	156.3 KHz
Max Input	0 dbm
Sweep time	64msec per 20 MHz or 64msec per channel

OneTouch AT Network Assistant

The OneTouch AT network assistant is an automated All-in-one network tester that empowers IT professional teams to effectively validate, and troubleshoot Ethernet and Wi-Fi access networks

- All-in-one: a handheld network tester combining infrastructure, network service and end-to-end path performance test in one tool
- Versatile: The OneTouch AT has a modular design: select the G2 module that has dual 10/100/1G copper/fiber optic Ethernet test ports and 802.11a/b/g/n/ac Wi-Fi radio, or the 10G module that has 100M/1/10G copper and fiber Ethernet test ports
- Standardize: Network engineers can pre-program AutoTest profiles for field technician that automatically run a suite of tests with the press of a button, enabling identification of the most common problems in about a minute
- VoIP ready: the G2 Module troubleshoots desktop SIP/SCCP based VoIP problems in real-time with inline call monitoring, logging, and scoring
- Centralized Management: the Link-Live.com cloud portal offer visibility to all of test results and project progress from any NETSCOUT handheld network tools: LinkSprinter, LinkRunner AT, AirCheck G2 and OneTouch AT



Overview

Network technicians spend 25 percent of their time troubleshooting—taking time away from critical tasks such as deploying new technologies, and optimizing network performance. Making the situation worse is the fact that intermittent problems take more than twice as long to solve, and that staff spends on average five hours a week traveling to and from problem sites.

OneTouch™ AT Network Assistant

Reduces network troubleshooting time by standardizing network troubleshooting :

1. An All-in-one network tester for wired and Wi-Fi network analysis and discovery
2. Unique AutoTest profiles that provide "best practice" network troubleshooting methods for novice and expert technicians and identify the most common end user issues in about a minute
3. Automated test trending and a cloud-based service that deliver long term results analytics and charting for faster identification of intermittent issues – even when technician is away
4. Enhanced team collaboration through a simple web-remote interface and easy-to-use inline packet capture capability

By improving each step of the process, the OneTouch AT helps novice and expert network technicians solve more problems faster, escalate issues more efficiently and validate performance easily - saving up to a week of time each month.

Features :

- **Versatile copper, fiber and Wi-Fi troubleshooting** - The tester incorporates dual copper and fiber optic test ports to facilitate troubleshooting of 10/100/1000 Mbps twisted pair and 100/1000 Mbps fiber Ethernet networks. The dual ports simplify inline packet capture and VoIP monitoring by eliminating the need for mirror ports or taps. For troubleshooting Wi-Fi networks the OneTouch AT G2 tester incorporates an 802.11ac dual-band Wi-Fi radio with a 3x3 antenna. When connected to both wired and Wi-Fi networks the tester displays test results side-by-side on a single page to aid in problem domain isolation. The OneTouch AT Network Assistant has a modular design. A 10G module is available for testing wired 100Mbps to 10Gbps Ethernet switch port and link performance at up to 10Gbps rate.
- **Configurable profiles for standardized testing** - Use the intuitive touch interface and the Setup Wizard to create test profiles, where a profile is a set of tests tailored to your network, services, and applications. Create simple profiles with only a few tests or advanced profiles consisting of dozens of tests.
- **Automated one-touch troubleshooting** – Test everything defined in a profile automatically with the one-touch AutoTest. The AutoTest progresses from the physical layer of the network, through the wired and wireless infrastructure, to network services and user-defined applications tests.
- **Wi-Fi and wired client devices connectivity testing** - Understand how a client device connects to the wired infrastructure by testing link negotiation, identifying the nearest switch, and monitoring key switch port statistics. The OneTouch AT with G2 Module tests IEEE 802.11a, .11b, .11g, .11n and .11ac Wi-Fi networks. It shows understand how a client device connects to the Wi-Fi infrastructure by testing the link between the client and the nearest access point, identifying the AP name, channel and security type, observing the authentication and association process, and monitoring key AP and network statistics, including roaming details by AP. For Wired client,

the OneTouch AT with G2 Module tests 10/100/1000BASE-T twisted pair and 100BASE-FX/1000BASE-X fiber optic Ethernet networks, while the OneTouch AT with 10G Module test RJ-45 test port for 100/1000/10GBASE-T and 1000 BASE-X SFP/10 G BASE-SR/LR SFP+ Ethernet over optical fiber Network.

- **Network services testing** - Test DHCP server responsiveness. Identify the wired and Wi-Fi DHCP servers and view the offer and acceptance timing and lease information. Test DNS server responsiveness. Identify the wired and Wi-Fi DNS servers and view the DNS lookup time.
- **Network application testing** - Determine if a server-based application is the root cause of a reported problem by measuring availability and responsiveness metrics. Add to the AutoTest profile the performance test appropriate for the application: ping (ICMP), connect (TCP), web (HTTP), file (FTP), multicast (IGMP), video (RTSP) or email (SMTP).
- **Cloud Based Results Management** - Once the OneTouch AT is connected to the Link-Live Cloud service, both wired and wireless network connectivity test results and report from the Autotest can be automatically uploaded to the dashboard for project management and reporting. This cloud-hosted service is available from anywhere at any time using any device with a browser and an internet connection. It is especially useful for managers of remote teams that need visibility to test results instantly. In addition, teams that utilize the AirCheck G2, the LinkSprinter or LinkRunner have a single dashboard system to manage results from network connectivity tests as all these Handheld Network Tools connect to the Link-Live cloud service.
- **Remote visibility, control and file access** - Use the built-in RJ-45 management port or optional USB Wi-Fi adapter to remotely control the OneTouch AT and access saved files. Any action that can be performed directly on the OneTouch AT using the touch screen can be performed remotely using a PC, laptop, tablet or smart phone. Minimize the time, expense and inconvenience of traveling to the client location where the problem was reported. Webcam support enables live, remote viewing of the physical environment near the tester. Remote control of units via the Cloud Service also allows traversal of NAT devices, which is very advantageous when troubleshooting from outside the office.
- **Wired network discovery and analysis** - Automatically discover copper and fiber-connected devices and key device properties. Select from among fourteen different sorts to obtain different views into the wired network.
- **Wi-Fi network discovery and analysis** - Automatically discover Wi-Fi devices and key device properties, including new 802.11ac access point and clients. Select from among twenty context-relative sorts to obtain different views into the wireless network.
- **End-to-end path performance measurement** - Ensure that newly installed or upgraded wired and Wi-Fi networks meet SLA objectives and are ready for new high-bandwidth applications by measuring end-to-end path performance. Measure throughput, frame loss, latency and jitter between a local OneTouch AT and a remote OneTouch AT peer or a remote LinkRunner reflector. A remote peer provides upstream and downstream results while a remote reflector yields round trip results. Measure performance at rates up to 1 Gbps on copper and fiber networks and 600 Mbps on Wi-Fi networks.
- **VoIP analysis** - Connect the OneTouch AT inline between an IP phone and the network for real-time troubleshooting and analysis. The VoIP analysis test reveals issues related to PoE, DHCP, TFTP, SIP, and SCCP. The test provides visibility into unencrypted SIP and SCCP traffic to debug VoIP phone problems and quantify the quality of a VoIP call. Simultaneous capture of the VoIP conversation is optional.
- **Packet capture** - Capture wired, Wi-Fi, VoIP and AutoTest traffic when a packet-level view is required to solve a complex network or application issue. Filter the traffic to capture what is most important. Export the capture file to a PC for decoding and analysis using protocol analysis software. Capture wired traffic on a single port, on two ports aggregated, or inline between a client device and the network. Inline capture avoids the complexity, time and cost associated with standalone taps or configuring switch mirror ports. Capture Wi-Fi traffic by channel and mode (20 MHz or 40 MHz+).

Models

Model Number/Name	Description
1T10G-1000	1T10G-1000,OneTouch AT 10G Ethernet Tester Contents: 100/1000 Mbps copper/fiber test module, a 1G SX SFP fiber transceiver, a 10G SR SFP+ fiber transceiver, SD card, frame carry strap, hand strap, AC adapter and line cord, patch cord, carrying case, getting started guide, and resource CD with users manual
1TG2-1500	OneTouch AT G2 Ethernet Tester Contents: 10/100/1000 Mbps copper/fiber test module, two 1G SX SFP fiber transceivers, SD card, frame carry strap, hand strap, AC adapter and line cord, USB flash drive, WireView #1-6, RJ45 patch cable and coupler, carrying case, getting started guide, and resource CD with users manual
1TG2-3000	OneTouch AT G2 Ethernet and Wi-Fi Tester Contents: 10/100/1000 Mbps copper/fiber and 802.11a/b/g/n/ac test module, Versiv platform, two 1G SX SFP fiber transceivers, external directional antenna with mounting clip, SD card, frame carry strap, hand strap, AC adapter and line cord, USB flash drive, WireView #1-6, RJ45 patch cable and coupler, carrying case, getting started guide, and resource CD with users manual
1TG2-3000-MOD	OneTouch AT G2 Ethernet Wi-Fi Test Module Contents: 10/100/1000 Mbps copper/fiber and 802.11a/b/g/n/ac test module, two 1G SX SFP fiber transceivers, external directional antenna with mounting clip, SD card, USB flash drive, WireView #1-6, RJ45 patch cable and coupler, getting started guide, and resource CD with users manual
1T10G-1000-MOD	1T10G-1000-MOD,OneTouch AT 10G Ethernet Test Module Contents: 100/1000Mbps & 10G copper/fiber test module, two 10G SR SFP+ fiber transceivers, RJ45 patch cable and coupler, getting started guide, and resource CD with users manual

OneTouch AT Model Comparison

Model	1TG2-1500	1TG2-3000	1T10G-1000
RJ 45 test port: 10/100/1000BASE-T	✓ x2	✓ x2	
Fiber SFP test port: 100/1000BASE-X	✓ x2	✓ x2	
Wi-Fi radio: 802.11 a/b/g/n/ac 2.4/5GHz		✓	
Non-802.11 detection/identification/location		✓	
RJ 45 test port: 100/1000/10GBASE-T			✓
Fiber SFP+ test port: 1000BASE-X /10GBASE-SRLR			✓
RJ 45 management port: 10/100BASE-T	✓	✓	✓
AutoTest profiles	✓	✓	✓
Connectivity testing	✓	✓	✓
Services tests (DHCP, DNS, ICMP, TCP)	✓	✓	✓
Cable wiremap and location	✓	✓	
TruePower PoE load testing	✓	✓	
Inline VoIP analysis	✓	✓	
Cloud service trending and analysis	✓	✓	✓
Discovery and analysis	Wired	Wired & Wi-Fi	Wired
User tests (HTTP, FTP, IGMP, RTSP, SMTP)	✓	✓	✓
Inline Wired and WiFi Packet capture	Wired, Inline	Wired, Inline, Wi-Fi	Wired
Wired path performance measurement	≤1 Gbps [1]	≤1 Gbps [1]	≤1 Gbps [1], ≤10 Gbps [2]
Wi-Fi path performance measurement		300/600 Mbps [1]	

* 1 When paired with LinkRunner AT 2000 or OneTouch AT
2 When paired with OptiView XG

NETSCOUT®