

EtherScope™ nXG

Portable Network Expert

Multi-technology, all-in-one handheld network analyzer

- Quickly test, verify, and troubleshoot Wi-Fi and wired networks
- Faster and easier Wi-Fi site surveys with AirMapper™
- AutoTest enables any technician to find network problems
- Full line-rate Multi-Gig to 10G performance testing & packet capture

Overview

Deploying and maintaining Wi-Fi and wired network infrastructure without the right tools can be daunting... and costly. The EtherScope nXG enables engineers and technicians to get more done faster, from deployment to maintenance and documentation of their ever-changing Wi-Fi and Ethernet access networks. With its simple operation, yet in-depth visibility, and the ability to remotely access and control EtherScope nXG, engineers can now fully enable and collaborate with "local hands" of field technicians at remote sites to expedite problem solving.

Key Features

- Install, test, verify, and troubleshoot technology upgrades, NBASE-T, 10G, and Wi-Fi 5/6 networks with advanced Android™-based troubleshooting apps and purpose-built test hardware
- Verify up to 10G Ethernet link performance for critical servers, uplinks and key end devices, and validate Wi-Fi network performance
- Empower technicians who may not have access to network management systems or other engineer-level tools to assess and document complex network deployments with multiple VLANs and Wi-Fi SSIDs
- Seamlessly consolidate and manage field test data, and integrate with network management systems via complimentary Link-Live Cloud Service



Version 1.2 Major Enhancements

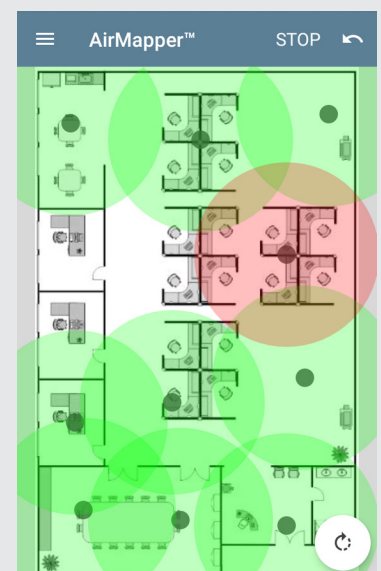
- AirMapper Site Survey Tool
- Enhanced AutoTest Capability & Controls
- Cloud-Based Remote Access
- Multi-Gig Link Validation

Capabilities



All-in-One Platform

- An Android-based handheld network tester that verifies, discovers and troubleshoots Wi-Fi and Ethernet network infrastructures
- Native 4x4 Wi-Fi that supports:
 - 802.11a/b/g/n/ac (wave 2) Wi-Fi network connectivity
 - Wi-Fi 6 network visibility
 - Analysis of SSIDs, BSSIDs, channel, client devices, and interference sources
- Ethernet port supports:
 - 10/100/1000Mbps to 2.5/5/10G
 - Verifies loaded power from 90W PoE switch
- Built-in Bluetooth v5/BLE and USB interfaces to discover and configure nearby devices



AirMapper Site Survey
App for EtherScope

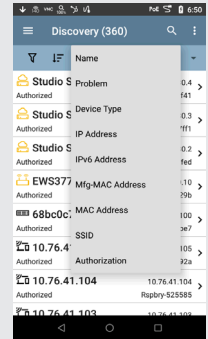
Capabilities *continued...*



Wired + Wi-Fi Network Discovery

Instantly see what is on the network and where it is connected, by switch, slot and port number. Quickly investigate and locate “suspect” devices and identify problems associated with device misconfigurations.

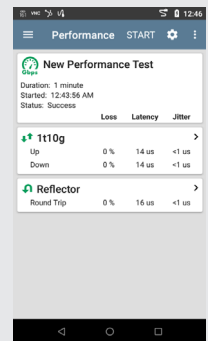
- Discover network devices across multiple VLANs and Wi-Fi SSIDs through four Wi-Fi and Ethernet interfaces upon power up
- Powerful filter and sort function with automatic problem detection identifies issues such as:
 - Duplicate IPs
 - Congested switch ports
 - Oversubscribed Wi-Fi channels/SSIDs
 - Security issues, such as unknown switches, access points with open authentication and unencrypted APs
- Path Analysis shows the switch/router path to any connected device



10G Line Rate Performance Test & Packet Capture

Verify network capacity, performance and QoS, and easily capture packets for detailed application analysis.

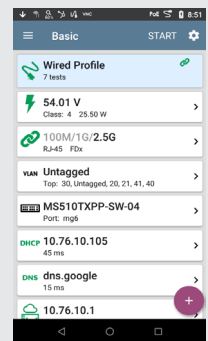
- Simultaneously generate and measure up to four streams of IP-based traffic through the Ethernet test port to:
 - Load the network with up to full 10G line-rate traffic
 - Test for packet loss, delay, and jitter
- Supports popular iPerf network throughput testing for Wi-Fi and Wired networks
- Capture wired or wireless traffic to PCAP files for escalation evidence or analysis, with simple - but powerful - filtering and slicing controls.



Verify Complex Networks

Test automation speeds and simplifies validation and troubleshooting - so more people can solve more problems, faster.

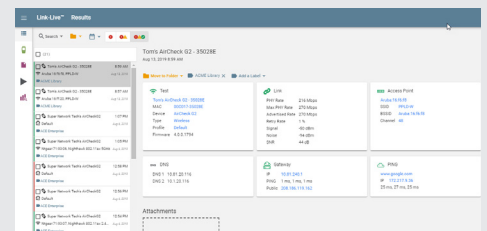
- Out-of-the-box AutoTest profiles for Wi-Fi and wired networks that can be customized for your network
- Execute multiple AutoTest profiles that shorten test time to verify multiple VLANs and Wi-Fi SSIDs
- Define and assign groups of targets to AutoTest profiles to verify performance using ping, TCP Connect, Web, or FTP



Simplified Collaboration, Automated Reporting

Collaborate with staff across your organization with centralized visibility of distributed tests, speeding resolution of remote site issues.

- Complimentary Link-Live Cloud Service stores test result and site data upload for automated reporting and documentation
- Simplifies report generation across media types for network deployment documentation
- Attach photos, user comments to each result, adding context for future changes and troubleshooting
- Available API enables seamless data integration between Link-Live and trouble-ticket or network management systems



New in Version 1.2

AirMapper™ Site Survey

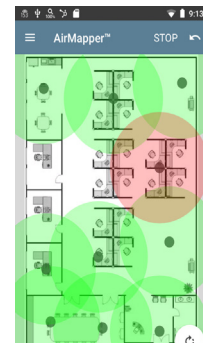
With the AirMapper app, EtherScope nXG users can now quickly and easily gather location-based Wi-Fi measurements and create visual heat maps of key performance metrics in the Link-Live Cloud Service. Simple to use, the AirMapper app is ideal for quick site surveys of new deployments, change validation, and performance verification.

- Complete faster and easier Wi-Fi site surveys with an entirely mobile platform.
- Perform enterprise-grade surveys without the need of a dongle or tethered device.
- Collaborate—easily visualize and share survey data through Link-Live Cloud Service.



NOTE: Enhanced site survey visualizations (Tx/Rx Rates, Noise, SNR) are available to customers with AllyCare support on their EtherScope nXG. For information about AllyCare, go to <https://netally.com/support>

For more information <https://www.netally.com/airmapper-site-survey/>



AirMapper Site Survey App

24-Hour Monitoring for Intermittent Issues – Enhanced AutoTest

Periodic AutoTest – In this mode, AutoTest runs at specified intervals (from 1 minute to 24 hours) and sends the results to Link-Live to view the results over time. This is an effective way to “monitor” aspects of your network for an extended period, or to help diagnose intermittent issues without having to manually execute multiple tests. Results are automatically timestamped and can be prefixed with a user-entered comment for grouping or organization. Test results can be quickly analyzed in Link-Live using the filtering and sorting functions. Email notifications can warn you when errors are found.

A number of additional enhancements in version 1.2 expand the use models for EtherScope nXG, provide more actionable information, and make the network analysis process even more efficient. See the EtherScope nXG v1.2 release notes for additional information.

Simplified “Access-Anywhere” Remote Control

EtherScope nXG permits remote control via VNC, which is easy when your workstation is on the same network. But connecting to distant sites on different networks is difficult or impossible, particularly behind NAT firewalls. Now, users can instantly connect to remote units through the Link-Live Cloud Service – anywhere in the world – for collaborative and remote troubleshooting.



NOTE: This feature is only available to customers with AllyCare support on their EtherScope nXG. For information about AllyCare, go to <https://netally.com/support>

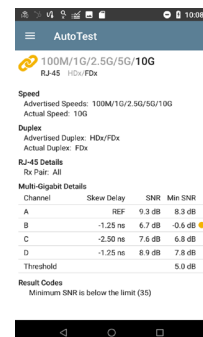
Multi-Gig Link Validation

With the expanding deployment of Multi-Gig switching (typically to feed greater bandwidth to Wi-Fi 6 access points), users are finding that their cable plant may not support the desired speed. Cable quality, length, installation workmanship, and noise in the environment all can contribute to “downshifting” to lower-than-expected speeds.

- Cabling SNR Measurement – EtherScope nXG can now verify copper media for Multi-Gig capability (1 / 2.5 / 5 / 10Gig), and provide root cause diagnosis when link speed downshifting occurs.



Survey data through cloud-based Link-Live Service



Cabling SNR measurement validates Multi-Gig links

Additional New Features:

- Enhanced Roaming Analysis
- “Stop After” and “Skip” Configurations
- Wi-Fi Band & Channel Selection
- Settings Export / Import
- Dwell Time Configuration
- Receive-Only Control

EtherScope™ nXG

Portable Network Expert

Models & Accessories

Model Number/Name	Description
EXG-200	Includes: (1) EXG-200 mainframe with Li-ION battery, G3-PWRADAPTER, SFP+MR-10G850, Inline RJ-45 coupler, WireView wire mapper #1, <i>Quick Start Guide</i> , and small softcase.
EXG-200-1YS	1 Year AllyCare Support for EXG-200, EXT-200-KIT
EXG-200-3YS	3 Year AllyCare Support for EXG-200, EXT-200-KIT
EXG-200-KIT	Includes: (1) EXG-200 mainframe with Li-ION battery, G3-PWRADAPTER, G3-HOLSTER, SFP+MR-10G850, SFP+MR-10G1310, RJ-45 inline coupler, (1) Test Accessory, WireView wire mappers #1-#6, External Directional Antenna, IntelliTone™ 200 Probe, <i>Quick Start Guide</i> , and medium softcase.
EXG-200-KIT-2PK	Includes: (2) EXG-200-KIT
EXG-200-LRG2-KIT	Includes: (1) EXG-200-KIT and (1) LinkRunner G2 (LR-G2)
EXT-ANT	External Directional Antenna
G3-PWRADAPTER	AC Charger replacement/spare for EXG-200 mainframe with country power cords.
G3-HOLSTER	Holster for G3 EXG-200 mainframe
SFP+MR-10G850	SFP+ Optical Transceiver Module, SX/SR, 1G/10G, 850nm, Multimode
SFP+MR-10G1310	SFP+ Optical Transceiver Module, LX/LR, 1G/10G, 1310nm, Singlemode

Specifications (For full specifications, please refer to the product data sheet)

General	
Dimensions	4.05 in x 7.67 in x 2.16 in (10.3 cm x 19.5 cm x 5.5 cm)
Weight	1.68 lbs. (0.77 kg)
Battery	Removable, rechargeable lithium-ion battery pack (7.2 V, 6.4 A, 46 Wh)
Battery Life	Typical operating life is 3-4 hours; Typical charge time is 3 hours
Display	5.0-inch color LCD with capacitive touchscreen (720 x 1280 pixels)
Host Interfaces	RJ-45 and SFP Analysis ports RJ-45 Cable Test and Management Port USB Type-A Port and USB Type-C On-the-Go Port SMA Connector (for External Directional Antenna)
SD Card Port	Supports Micro SD card storage - up to 64GB supported
Memory	Approximately 8 GB available for storing test results and user applications
Charging	USB Type-C 45-W adapter: 100-240 Vac, 50-60 Hz; DC Output Power 15 V (3 A) RJ-45: 802.3at PoE (25W) or higher
Media Access	Copper: 10M/100M/1G/2.5G/5G/10G Fiber SFP Adapters: 1G/10GBASE-X
Supported IEEE Standards	Wired: 802.3/ab/ae/an/bz/i/u/z Wi-Fi: 802.11a/b/g/n/ac PoE: 802.3af/at/bt, Class 0-8 and UPOE
Cable Test	Pair lengths, opens, shorts, split-pairs, crossed, straight through, and WireView ID

DISTRAME SA

Parc du Grand Troyes - Quartier Europe Centrale 40 rue de Vienne - 10300 SAINT-ÉTIENNE
Tél. : 03 25 71 25 83 - Fax : 03 25 71 28 98 - infos@distrame.fr - www.distrame.fr