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# **EtherScope™Series II**

Network Assistant

Network professionals rely on the EtherScope Network Assistant to complete their daily tasks fast. The purpose-built EtherScope speeds and simplifies network installation, validation and troubleshooting by integrating essential tests, automated diagnostics and quided troubleshooting.

- Install and integrate wired and wireless network infrastructure easily by testing, verifying and fixing configuration issues during deployment. EtherScope helps you get the job done right the first time
- Validate network performance and service delivery by measuring key performance attributes and the availability and responsiveness of essential resources. Use EtherScope to document the delivery of services and applications as an element of your network acceptance practice.
- Troubleshoot problems fast in real-time when they occur, and proactively before they become costly. EtherScope guides you to the root cause so you can close trouble tickets fast without escalation. Audit the performance of the network on a regular, periodic basis to identify and correct emerging issues.

#### Overview

The handheld EtherScope Network Assistant simplifies network testing to make network installation, validation and troubleshooting easy and fast.

- Analyze twisted pair, and fiber optic and wireless LANs
- Diagnosis LAN health automatically with one click
- Identify root cause with guided troubleshooting
- Observe connectivity processes
- Monitor local traffic, switch interfaces and protocols
- Discover and map devices, networks and VLANs
- Measure and assess Ethernet LAN/WAN link performance and SLA compliance
- Validate the availability and responsiveness of LAN services
- Secure the network from internal threats

#### **Features**

#### Wired and wireless network assistant

The EtherScope is ready for your wired and wireless network. It provides a comprehensive view of your network from both sides of the access point, so you can get the information you need to get your job done fast. The EtherScope is equally at home on twisted pair, fiber optic or wireless networks and features a comprehensive set of tools appropriate for each environment.

## Turns anyone into an instant problem solver

The Health Audit test provides visual diagnostics of LAN health with one click. Touch one button to initiate automated measurement and assessment of critical network resources, including the physical layer, infrastructure devices, key services, and protocols. Identify root cause with guided troubleshooting.

#### Characterizes complex circuits fast

The ProVision™ test measures the critical performance parameters of throughput, frame loss, delay, and jitter, but goes beyond the basics to offer asymmetric testing, multiple

streams, easy operation, easy-to-read results and a 4X minimum improvement in testing speed. More relevant than RFC 2544 testing for Metro Ethernet circuit turn-up and SLA validation, both Carriers and private network operators find ProVision valuable.

## Verifies delivery of services and applications

The Service Performance Tool verifies that essential network services and applications are available and responsive. Visual pass/fail indicators facilitate quick and easy results analysis at a glance. Incorporate service delivery reports into your LAN validation practice as proof of acceptable network operation.

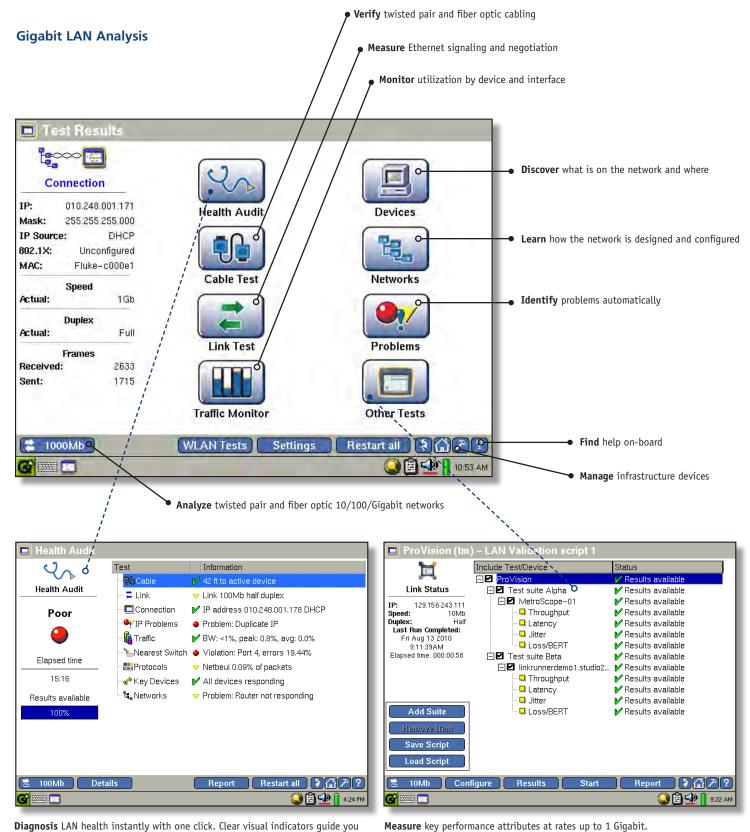
#### Ready for demanding field use

Easy to use and carry, the EtherScope is compact and rugged for harsh environments. Featuring a bright, color touch screen, an intuitive user interface and on-board help, the EtherScope is ready to assist you when it is time for action.







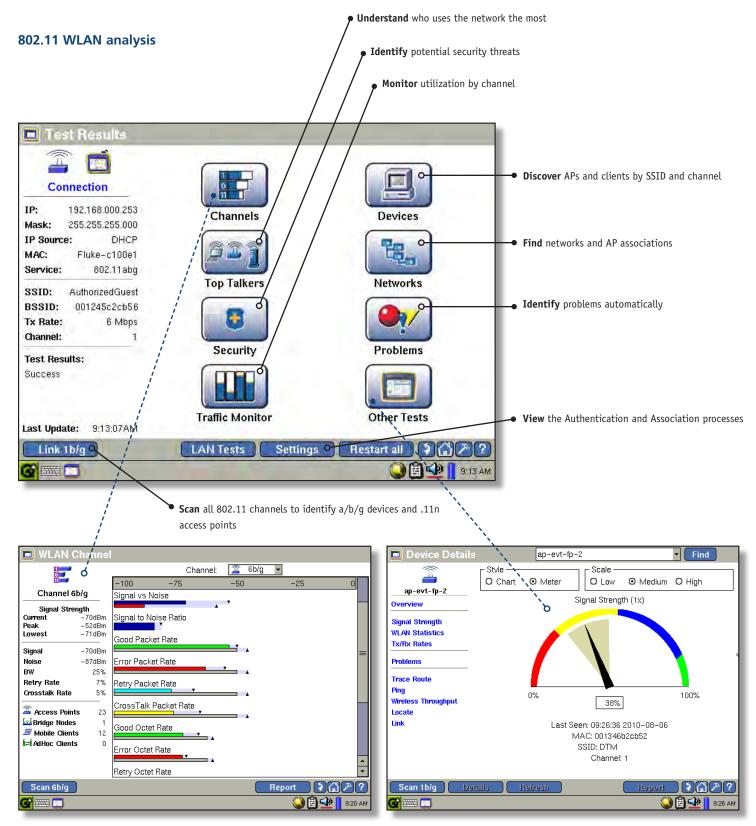


to root cause. Document health with built-in reports Measure key performance attributes at rates up to 1 Gigabit.

Assess successful circuit turn-up and SLA compliance.







View critical WLAN health metrics by channel Verify signal coverage and performance **Locate** devices by monitoring signal strength **Secure** the WLAN from rogue access points





### **EtherScope Series II Network Assistant Specifications**

General specifications						
Weight, with battery	0.86 kg (1.9 lb)					
Dimensions	19.1 x 15.2 x 4.4 cm (7.5 x 6.0 x 1.75 in)					
Display	LCD touch screen, 640 x 480 pixels, TFT (active) color panel, touch pad					
LED indicators	6 (including power LED)					
Power						
Battery	Lithium Ion 7.2V DC (nominal), 4.2Ah, removable/rechargeable					
Battery life	4 hour typical, 10 hour in standby mode					
External AC adapter/battery charger	AC input: 90 to 264 V ac, 48 to 62 Hz; 1.5 A, DC output: 15 V dc, 1.2 A (isolated output)					
Auto Charger	12V "cigarette lighter" charger with 6 foot (1.8 m) fully extended coiled cord and LED power indication					
Ports						
Communication and accessory ports	1 USB, 1 PCMCIA/Cardbus (PC Card type II), 1 SFP cage, 1 CompactFlash (Card Type I/II), 1 DB-9 serial, headphone jack, microphone jack, Kensington lock receptacle					
RJ-45 / Copper Port	RJ-45 10/100/1000BASE-T Ethernet					
Fiber Port	Small Form-factor Pluggable (SFP) in accordance with MSA					
Supported SFP Modules	1000BASE- LX, SX, ZX, BX, 100BASE-FX					
SFP Connector	Duplex LC					
Environmental and safety						
Operating temperature	0° to +50°C (32° to 122°F) with up to 95% relative humidity					
Battery charging temperature	10° to +40°C (50° to 104°F) with up to 95% relative humidity					
Storage temperature	-20° to +60°C (-4° to 140°F)					
Shock and vibration	Meets requirements of MIL-PRF-28800F for Class 3 equipment					
Safety	CSA Canada and United States, CE, FCC Part 15 Class A, C-TICK N10140; UL and CSA approvals for universal AC adapter, EMC Complies with EN61326, Class A, Criteria C					
Wireless LAN Adapter Card						
Specification compliance	IEEE 802.11a, 11b, 11g					
Certifications	FCC part 15, Telec, CTICK, ETSI, EN301893, EN60950					
Interoperability	WECA Compliant					
Interface	32-bit Cardbus					
Outdoor operating range	Up to 515 m (1690 ft)					
Indoor operating range	Up to 85 m (279 ft)					
Data rate	802.11a: up to 54 Mbps, 802.11b: up to 11 Mbps, 802.11g: up to 54 Mbps					
Output power	18 dBm peak power					
Infrastructure mode	BSS					
External antenna connector jack	Hirose MS-147					
Wireless LAN Directional Antenna						
Frequency range	2.4 – 2.5 and 4.9 - 5.9 GHz					
Minimum gain	5.0 dBi in the 2.4 GHz band and 7.0 dBi in the 5 GHz band					
External antenna connector plug	Hirose MS-147					
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### **Ordering Information**

Model*	Į,	, 10/200 A	Gig 2.12 wife	less optica	nterface Nision at	KRunner R	Juo Reflect Wi	tor tester contents
ES2-LAN-SX	1		1					LAN analyzer with Fiber option: Series II mainframe, 1000BASE-SX transceiver, protective boot, carrying strap, rechargeable Li-Ion battery pack, AC adapter/battery charger, CompactFlash® card, remote wiremap adapter (ID #1), patch cable, RJ-45 adapter, Getting Started Guide, resource CD, carrying case
ES2-LAN-SX/I-LRD	1		1	<b>√</b>	1			LAN analyzer with Fiber and ProVision/RFC2544 options, plus a LinkRunner Duo Reflector kit: Above with additional ProVision/RFC2544-related features: ProVision, RFC 2544, Service Performance Tool, Server Response Tool, and Traffic Generator, plus a LinkRunner Duo with Reflector option, rechargeable Li-Ion battery pack, and carrying case
ES2-PRO-SX/I-ACK**	1	1	1	J		1		LAN and WLAN analyzer with Fiber and ProVision/RFC2544 options, plus an AirCheck Wi-Fi Tester: Series II mainframe, 1000BASE-SX transceiver, 802.11a/b/g CardBus adapter, directional antenna, protective boot, carrying strap, rechargeable Li-Ion battery pack, AC adapter/battery charger, CompactFlash® card, remote wiremap adapter (ID #1), patch cable, RJ-45 adapter, Getting Started Guide, resource CD, carrying case, additional ProVision/RFC2544-related features, plus an AirCheck Wi-Fi Tester
ES2-PRO-SXI-LRDACK**	1	1	1	1	1	1	1	LAN and WLAN analyzer with Fiber and ProVision/RFC2544 options, plus a LinkRunner Duo Reflector kit, an AirCheck Wi-Fi Tester, and an extended accessories kit:  Above plus a LinkRunner Duo with Reflector option, rechargeable Li-Ion battery pack, and carrying case, plus AirCheck rechargeable Li-Ion battery, AirCheck directional antenna, and AirCheck hard case, plus spare EtherScope Li-Ion battery, external battery charger and AC adapter, remote wiremap IDs #2-#6, mini-USB keyboard, and large carrying case

<sup>\*</sup> Additional country-specific models and promotional models are available. Contact your local sales office for a complete list of models.

\*\* For sale only in countries where the AirCheck Wi-Fi Tester is certified



