NEW OptiView XG Performance Test Remote – "Much Better"

The Performance Test Remote (PTR) instrument allows bi-directional testing (asymmetric, up to 4 separate, simultaneous streams) at up to full line-rate 10Gig on copper or fiber. Whether used at 1G or 10G rates, bi-directional testing is essential for assessing a network's capacity for voice and video traffic. The Performance Test Remote provides a cost-effective way of instrumenting multiple points in the network with a 10G device for performance testing, network assessment, and validation of critical, high-performance links.

The instrument comes with both copper (100/1000/10G) and fiber (1/10GBASE-SR, 850nm multimode SFP+) network interfaces. Alternatively, different SFP+ modules may be used for different standards/distances (LR, LRM.)

Specifications:
Battery Type - Rechargeable lithium battery pack

Temperature:
Operating - 0° C to 50° C (no battery installed)
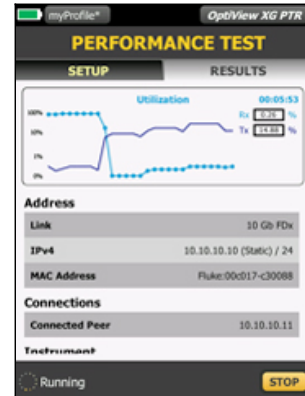**Operating** - 0° C to 40° C (lithium battery installed)
Charging - 0° C to 40° C
Storage - -40° C to 71° C

Safety: IEC/EN 61010-1
Operating altitude - 13,123 ft (4,000 m) 10,500 ft (3,200 m) with ac adapter
Storage altitude - 39,370 ft (12,000 m)

Part of the Versiv family

The OptiView Performance Test Remote is a new high-performance network test module on Fluke Networks' modular Versiv™ test platform. Versiv expands testing capabilities through the addition of new modules as testing needs evolve, providing total flexibility for copper or fiber cable testing and certification with the DSX-5000 CableAnalyzer™, CertiFiber® Pro and OptiFiber® Pro OTDR modules. Network Technicians can use the OneTouch™ AT Network Assistant 1T-3000 module for access-layer user network connectivity and performance troubleshooting on copper, fiber and Wi-Fi networks. (See ordering information for the OptiView Performance Test Remote and 1T-3000 module kit.)

When not being used for performance testing, the OptiView XG Remote can be quickly converted into any one of these instruments with the replacement of the optional slide-in module.

OptiView XG – "Best"

A second OptiView XG provides the best performance overall as a test endpoint, with its capacity for eight bi-directional streams at up to 10 Gbps. When not used for performance testing, engineers at the remote site have the most powerful tool available for local wired and wireless troubleshooting, assessment, mapping and more.

Unmatched Network and Application Performance Analysis

OptiView XG is at home in the data center, with support for 10 GbE and virtualized servers; at the users' office supporting 802.11a/b/g/n/ac and application analysis; and with the switches and routers in between. Use it to find problems from your desk or take it with the data it collected to the trouble spot for first-hand analysis. Its unique troubleshooting system is based on proactive analysis, path analysis, and application-centric analysis, which provides expert guidance that automatically identifies the root cause of problems. No other tool combines powerful performance testing with in-depth troubleshooting and analysis!

More Flexible and Powerful than Other Testing Methods

Based on ITU-T Y.1564, the newest standard for testing real-world Ethernet performance, OptiView XG's NPT provides enhanced performance compared to older standards such as RFC2544, including:

Faster—the LRPT option measures all key performance Service Level Criteria (SLC's)—availability, throughput, frame loss, delay, and delay variation (jitter)—in a single test instead of multiple independent tests.

Fixed Test Times—a single lost frame during an RFC 2544 throughput test requires it be run again, so a test may take many times its set length. ITU-T Y.1564 tests only need to run one time for a complete measurement.

More thorough—measures additional key Service Level Agreement (SLA) requirements including Excess Information and Excess Burst Rates (EIR/EBR), and availability. Measures delay and jitter on every frame in the test.

More flexible—supports multiple simultaneous flows with independent destinations, SLAs and SLCs, CoS and VLAN settings.

Measurement/Feature	Basic Throughput Test	RFC 2544	ITU Y.1564 (NPT)
Throughput	✓	✓	✓
Loss	✓	✓	✓
Latency		✓	✓
Jitter			✓
Multiple Streams			✓
Class of Service Testing			✓
Asymmetric Link Testing			✓
Excess Information Rate			✓
Excess Burst Rate			✓
Traffic Policing			✓

Network Test Specifications

Compatible remote devices	OptiView XG (up to 10 Gbps FDX with independent upstream/downstream flows); LinkRunner AT 2000, LinkRunner CE, LinkRunner Pro or Duo with Reflector Option (up to 1Gbps FDX with symmetric upstream/downstream flows)
Test Configuration	Each test may be made up of an unlimited number of suites which run sequentially. Each suite may measure a maximum of eight bi-directional test flows from one to eight endpoint devices (peer or reflector).
Service Level Agreement (SLA)	Committed Utilized Line Rate (ULR) Excess Utilized Line Rate Committed Information Rate (CIR) Excess Information Rate Committed Burst Size Excess Burst Size
Service Acceptance Criteria (SAC)	Availability Latency (Frame Transfer Delay) Jitter (Frame Delay Variation) Frame Loss Ratio Separate values may be set for upstream and downstream flows when used with a peer endpoint (a second OptiView XG). The test may be configured to check for preservation of VLAN Priority and Class of Service markings.
Frame size	User-defined fixed frame size up to 10,018 bytes or a sequence of specific frame sizes.
Layer 2 Frame Settings	Destination MAC; VLAN ID number, priority, and tag protocol identifier.
Layer 3 Frame Settings	TOS with DSCP or IP precedence; source IP address; UDP port number
Flow Options	The duration of the performance test may be set to one of the pre-defined values ranging 1 minute to 24 hours. Intermediate test results may be produced on an interval ranging from 1 minute to 60 minutes.
Reported Results	Test results are compared to the user defined Service Acceptance Criteria with pass/fail status given with respect to these criteria. The user may set specific values for: Availability threshold (%), Latency threshold (msec), Jitter threshold (msec), and Frame Loss Ratio.