Spirent VisionWorks 7574

400GE TestHead

VisionWorks 7574 delivers the visibility and scalability needed to provision and support a wide variety of Ethernet/IP Services including Mobile Backhaul, Business Services, and IP Backbones.

- **Service Activation:** Improves the efficiency and scalability of service provisioning. VisionWorks 7574 placed at edge/aggregation switches/routers enable automated and repeatable provisioning "birth certificates" for a wide range of services.

- **Performance Monitoring:** Constant visibility of the performance of the network enables SLA-backed service levels and proactive alarm generation for Operations.

- **Trouble Resolution:** the TestHead service/network performance, allowing rapid fault isolation and sectionalization without the need for multiple dispatches.

- **Datacenter Communications:** Enables seamless service activation, performance management, and rapid troubleshooting across core and datacenter network environments, supporting high-bandwidth demands and AI-driven initiatives.

VisionWorks 7574

The VisionWorks 7574 TestHead is part of the overall VisionWorks Assurance Solution; enabling Service Providers with physical and NFV-based Test Agents for high-speed networks.

It provides a customer-centric diagnostic view of IP services at 100/400 Gbps access points. The TestHeads emulate your customer's SLA characteristics while providing immediate and actionable status information about your network through a combination of active and passive testing.

Key Features

Test Features

- **Active tests—** Y.1564, MEF 48, EOAM(Y.1731/802.1ag), RFC 2544, Network Quality, Burst, TWAMP, L2/L3 & MEF 46 loopback, RFC-6349 throughput testing, Ping, and Trace Route

- **Passive tests—** Packet Capture, Link and VLAN statistics, Protocol Distribution, and Top Talkers

- **24x7 Performance Monitoring tests—** TWAMP, Ping, EOAM, Y.1731, Passive Network Link/Port monitoring

- **Stateful TCP tests—** Client and server functionality

- **Untagged and tagging support—** 802.1q and Q-in-Q

Measurement Modes

- **Multiple—** Up to 30 active and/or passive simultaneous tests

- **Active—** Transmission and measurement of test traffic to characterize the network and/or service

- **Passive—** Non-intrusive observation and analysis of L3/L4 generated traffic

- **Capture—** Packet capture including line-rate, pre-capture filtering

- **Performance Monitoring—** 24x7 active tests to hundred of thousands of endpoints

400G TestHead

End-to-End Visibility for Automated Assurance

VisionWorks 7574 TH Series extends visibility to critical locations throughout the provider network, including reflector and loopback functions at other aggregation locations or end-points such as Network Termination Equipment (NTE) units, routers and switches. This extended visibility enables complete end-to-end transport network and service validation with sectionalization features for troubleshooting service issues. The result is assurance that services are provisioned correctly the first time, and when faults do occur, they are rapidly identified and corrected.

- SLA monitoring & SLA issue resolution workflows
- Emulates real customer activity with standards-based active tests including:
  - Y.1564 / MEF48
  - EOAM (Y.1731 / 802.1ag)
  - RFC 2544
  - Burst
  - RFC 6349 throughput testing
  - TWAMP
  - Ping
  - Trace Route
  - L2/L3 & MEF 46 loopback
- Proven ability to scale to support 24/7 performance monitoring of millions of streams simultaneously
- Line-rate testing ability enables actual service rate testing
- Interoperable with VisionWorks 75XX series TestHeads and Virtual Test Agents (VTAs)

Chassis Options

6941C–7574DC–400	VisionWorks TSA 400G TestHead – DC Power
6941C–7574AC–400	VisionWorks TSA 400G TestHead – AC Power
6941C–7574DC–100	VisionWorks TSA 4 Port 100G TestHead – DC Power
6941C–7574AC–100	VisionWorks TSA 4 Port 100G TestHead – AC Power

Mechanical and Environmental

- 3.5" (H) x 19" (W) x 18.5" (D, 15" w/o cabling) and
- 25.25 lbs
- 2 RU single chassis
- 2 power supplies (–48VDC or 110/220VAC; 550–watt max)
- Operating temperature: 5°C to +45°C (41°F to 113°F)
- NEBS Level 3
- CE Class A

Test Interfaces

- 4 Physical Test Ports
  - 2 Test ports 400G/200G/100G capable
  - 2 Test ports 200G/100G capable

Management Interfaces

- 10/100/1000BaseTRJ–45 IP
- 1/10Gbps SFP+
- RS–232 (ASYNC)

VisionWorks 7500 Series TestHeads are part of the **VisionWorks** suite.
For more information please visit: www.spirent.com/products/visionworks.

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