

# InterWatch R14



## Highlights

- Multitasking Solaris operating system
- Simultaneous multi-user, multiprotocol and multi-application
- Remote control using standard Windows applications such as VNC and Exceed
- Hardware-based real-time protocol (RTP) generation and analysis
- Single software license per option for entire chassis
- Several test beds can leverage the same licensed option
- Shared-platform capacity and performance across several test beds
- Re-use hardware modules for different test applications
- Complete lifecycle testing: feature, load, interoperability and regression testing
- Linear scaling—no performance degradation when expanding platform
- Unique and purposed-built test solution for VoIP and IMS testing
- Comprehensive security testing such as TLS, IKE, IPSec and SRTP
- Hardware-based time stamping for signaling packets and RTP
- Large-scale, high-capacity and high-performance instrument

## Overview

The InterWatch R14 is the industry's most powerful test platform designed for today's VoIP and IMS networks. This rugged carrier-class platform provides unmatched scalability and performance at a fraction of the price of alternative off-the-shelf servers.

The InterWatch R14 scales by adding modules to support simultaneous users and applications. Some of the key applications include test solutions for VoIP and IMS devices including session border controllers (SBCs), security gateways, border gateway functions (BGFs), IMS I/P/S-CSCFs, HSS, PacketCable CMS, proxy/registrar testing and application servers such as Presence and IP Centrex.

Moreover, it can simulate large-scale subscribers as well as emulate network elements and network clouds consisting of two or more network elements. The platform supports the generation and analysis of signaling such as SIP, H.248, H.323, PacketCable NCS, Diameter, ISUP, GMPLS and media such as voice, video and DTMF.

The InterWatch R14 provides comprehensive security testing capabilities to test security elements such as session border controllers (SBCs), security gateways and IMS P-CSCF under high performance and load using security protocols such as TLS, IKE, IPsec and SRTP.

The InterWatch R14 provides the capacity to initiate and terminate thousands of calls and tens of thousands of registrations per second. By investing in an InterWatch R14 platform, you are investing in the industry's most powerful, yet flexible and very cost-effective test solution.

## Specifications

- Size (H x W x D): 39.38 cm x 47.5 cm x 36.25 cm (15 <sup>3</sup>/<sub>4</sub> in x 19 in x 14 <sup>1</sup>/<sub>2</sub> in)
- Weight: 15 kg (33 lb)
- Power supply: 100-240 VAC, 50/60 Hz, 10A

### ORDERING INFORMATION

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For ordering information, please contact [isales@EXFO.com](mailto:isales@EXFO.com)

## Complementary Products

### **MCM Gigabit Ethernet Interface**

The Media Centric Module Gigabit Ethernet (MCM-GbE-R14) module is designed to facilitate high-performance security, signaling and media test capabilities. In addition to providing all the powerful features of the SCM-GbE, the MCM-GbE-R14 generates and analyzes media at full line rate supporting up to 32 000 media streams per port (64 000 per module).

### **Gigabit Ethernet Interface**

The dual-port Gigabit Ethernet Interface generates, monitors and captures 10/100/1000 Mbit/s Ethernet wire-rate traffic, while performing real-time simultaneous analysis of the seven OSI layers.

### **sipFlex Test Suite**

This SIP endpoint and network cloud emulation tool simulates subscribers' behavior as they interact with the network. It also tests the device under test security capabilities such as protection against theft of service, registration floods, rogue media and media pinhole hijacking.

### **hssFlex Test Suite**

This HSS emulator designed with built-in test functionality, provides a comprehensive IMS test bed, allowing NEMs and NSPs to perform comprehensive device and end-to-end testing using a combination of the industry-leading HSS test emulator and IMS subscribers (sipFlex) in a single test application. It also allows characterizing device and network response latency measurement under various network load conditions.

### **h323Flex Test Suite**

The h323Flex Test Suite is designed to assist NEMs and NSPs to perform H.323 to SIP interwork testing, using real-world traffic load in lab environments. This easy-to-use application provides comprehensive capabilities, covering the entire H.323 network at the various stages of development and deployment.

### **IMS Border Gateway Function Test Suite**

The IMS Border Gateway Test Suite is designed to test the IMS border gateway. It integrates the subscribers and the controller into a single flexible, easy-to-use GUI-driven test bed to perform numerous tests such as feature, negative, load, regression, interoperability and scalability.

### **PacketCable CMS Performance Test Suite**

The PacketCable CMS Performance Test Suite is an advanced solution that emulates hundreds of thousands of PacketCable access network devices (MTAs) and hundreds of CMTSs. It also generates high volumes of network call signaling (NCS), IP security (IPSec) as well as dynamic quality of service (D-QoS) traffic.

### **ISUP Performance Test Suite**

The ISUP Performance Test Suite is an advanced hardware and software solution that emulates the entire SS7 network and generates high volumes of ISUP traffic. It emulates real-world network conditions and enables network equipment manufacturers and network operators to perform numerous tests of media gateway controllers (MGC/softswitch).

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