

Brix Verifier 2000V

VIDEO VERIFIER



SPEC SHEET

Part of a complete end-to-end system, this device monitors IPTV, cable, broadcast and satellite television delivery networks—from the headend to the home.

KEY FEATURES AND BENEFITS

Complete IP and video service assurance monitoring for television delivery

Ideal for cable, IPTV, satellite and broadcast systems

Applicable from headend to in-network locations

Analysis and alarming on IP and MPEG video performance

Concurrent analysis of up to 260 IP streams and ASI

Transport stream (TS) monitoring into IP according to ETSI TS 102 034

ETR 290 video quality monitoring (optional)

Satellite, cable and broadcast RF input modules available (optional)

EXFO

Service Assurance

The Brix Verifier 2000V is the flagship device for monitoring IPTV, cable, broadcast and satellite television delivery networks. It is part of a complete end-to-end system capable of monitoring quality from satellite input to the headend through the home.

The ability to monitor continuously 260 services makes the Brix Verifier 2000V card just as powerful as its portable version, the Brix Verifier 2000V-P. With a small form factor, three Brix Verifier 2000V cards can be housed in a one-inch rackmount unit, offering up to 780 channels. With full support for the MPEG2 TS standards carrying all modern codecs, the Brix Verifier 2000V is perfect for head-end and network core use. Thanks to the Brix Verifier 2000V, fault finding in complex television delivery networks just got a lot easier.

Critical parameters such as detailed jitter values give accurate readings of network performance. With the patented MediaWindow™, historical data can be easily accessed for meaningful visualization of media flow in IP networks. Whether you wish to establish or modify service settings on complex routers and switches, the Brix Verifier 2000V will facilitate the entire process.

The power of confidence monitoring is further enhanced by continuous monitoring and alarming of bandwidth overflow/underflow, real-time protocol (RTP) errors and signal loss. With advanced threshold settings including error-seconds, alarm granularity can be set to useful standards avoiding flooding of alarm systems. The unique FSM™ framework allows checking and continuous monitoring of middleware and network services vital to customer quality of experience (QoE).

BrixVision Live Monitoring system, part of EXFO's BrixWorx multiplay service assurance system, offers SNMP trapping and advanced alarm correlation and filtering for Brix Verifier 2000V and all other video verifiers. BrixWorx also offers open Northbound API with published MIB, allowing smooth integration with different operational support systems (OSS). BrixVision also provides access to the verifiers to configure and set threshold of the Brix Verifier 2000V.

Management interface on the Brix Verifier 2000V is a 10/100 Ethernet port (RJ-45). Basic setup is also achieved through the built-in USB to RS232 converter, eliminating the need for an external interface. This facilitates the setting of IP addresses for access to the IP probe.

ADDITIONAL FEATURES

X-bit RTP header extension support as used by Microsoft IPTV system MediaRoom™

Advanced real-time IP protocol breakdown and analysis with individual bandwidth and frame size display

Type-of-service (ToS) and time-to-live (TTL) display

SNMP or XML export of real-time measurements

Individual severity level settings for alarm trapping

IGMP monitoring and logging

IGMPv2 and IGMPv3 SSM support

Full 802.1Q VLAN tagging support/detection

PSI/SI table visualization

Jitter and media loss measurement

MediaWindow™ visualization technology

FSM™ monitoring of middleware services

Thumbnail decoding of MPEG2 and MPEG4 streams

Line-speed ASI measurements

NTP client functionality (RFC 2030)

DHCP client support (RFC 2131)

RTP dropped, duplicate and out-of-order measurements

Return data path (RDP) of IP multicasts monitored

RDP of ASI input (MPTS or SPTS)

Optional full ETSI TR 101 290 alarming and analysis with round-robin on all 260 services

ENVIRONMENT SPECIFICATIONS

Temperature	
operating	0 °C to 50 °C (32 °F to 122 °F)
storage	-20 °C to 70 °C (-4 °F to 158 °F)
Operating humidity	5 % to 95 % non-condensing

POWER SUPPLY REQUIREMENTS

Input voltage:	100 to 240 VAC or -48 VDC
Power required:	2+ VA, typical at 220 VAC
Power dissipated:	50 W (maximum)

PLATFORM SPECIFICATIONS^a

Standard 1U 19-inch rackmount unit
W x H x D: 483 mm x 43 mm x 400 mm
Weight: 4.2 kg (fully populated)
Power supply: 100-240 VAC (model BV-V-AC) or -48 VDC (model BV-V-DC)

OPTIONAL INPUT MODULES

Broadcast input module (DVB-T/COFDM): BV2050V
Cable input module (DVB-C/QAM): BV2060V/BV2062V
Satellite input module (DVB-S and DVB-S2/QPSK): BV2070V

CONNECTORS SPECIFICATIONS

10/100/1000 Ethernet video: RJ-45
10/100 Ethernet management: RJ-45
Optical input: SFP module
ASI input: 75 ohms BNC
Initial setup: USB Type A

NETWORK SPECIFICATIONS

10/100/1000 BASE-T Ethernet (802.3u and 802.3ab)
SFP interface for optical networks
10/100 BASE-TX Ethernet management (802.3u)

CONTROL AND MANAGEMENT

Basic setup/control through RS232 via USB
Remote access through HTTP or Telnet
Optional control and data aggregation via BrixVision Live Monitoring Software

Note

a. Platform sold separately

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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