

BV-1200V

VIDEO SERVICE ASSURANCE MONITORING FOR TELEVISION DELIVERY



Please note that this model has been discontinued. For more information, visit EXFO.com

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

KEY FEATURES AND BENEFITS

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 multiple streams and sources
(depending on configuration)

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

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

ETR 290 video quality monitoring (optional)

EXFO's BV-1200V is a flexible 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 all the way through to the home.

The BV-1200V cards are typically combined with input modules that support satellite, cable TV, broadcast and high-density ASI monitoring. Despite its a small form factor, three blades (e.g., verifier and input modules) can be housed in a one-inch rackmount unit. The verifier can also support IP monitoring (up to 50 streams) using optional software. With full support for the MPEG2 TS standards carrying all modern codecs, the BV-1200V is perfect for headend and network core use. The verifier is also available in portable versions: the BV-1200 V-P and BV-1200 V-P-QAM. Thanks to the BV-1200V, 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 a comprehensive visualization of media flow in IP networks.

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

The EXFO Vision Live Monitoring system, which is part of the EXFO Worx multiplay service assurance system, offers SNMP trapping and advanced alarm correlation and filtering for the BV-1200V and all other video verifiers. EXFO Worx also offers open Northbound API with published MIB, allowing smooth integration with different operational support systems (OSS). EXFO Vision also provides access to verifiers to be able to configure and set the threshold of the BV-1200V.

Management interface of the BV-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 makes it easier to set 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

SPECIFICATIONS

ENVIRONMENT SPECIFICATIONS

Temperature operating storage	0 °C to 50 °C (32 °F to 122 °F) -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

Dimension (W x H x D)	483 mm x 43 mm x 400 mm (19 in x 1 11/16 in x 15 3/4 in)
Weight (fully populated)	4.2 kg (9.24 lbs)
Power supply	100-240 VAC (model BV-V-AC) or -48 VDC (model BV-V-DC)
Standard 1U 19-inch rackmount unit	

OPTIONAL INPUT MODULES

Broadcast input module (DVB-T/COFDM)	BV-2050V
Cable input module (DVB-C/QAM)	BV-2060V/BV-2062V
Satellite input module (DVB-S and DVB-S2/QPSK)	BV-2070V
ASI Input module (6 ASI inputs, 2 active ports)	BV-2042V

Note

a. Platform sold separately

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 connector

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 EXFO Vision Live Monitoring Software

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