

# BV-2000 V-P

PORTABLE VIDEO VERIFIER



Please note that this model has been discontinued. For more information, visit [EXFO.com](http://EXFO.com)

The most powerful portable monitoring and measurement probe available—ideal for both IP transport cores based on L3 routing or IP/MPLS

## KEY FEATURES

One 10/100/1000T Mbit/s Ethernet port

One SFP Gigabit Ethernet port

One 10/100T Mbit/s Ethernet management port

One asynchronous serial interface (ASI) input port

Concurrent analysis of 260 IP streams

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

## CONVERGED SERVICE ASSURANCE

EXFO's BV-2000 V-P is an IP probe built specifically to meet the requirements of advanced IP engineers and for lab-use; this tool is ideal for both IP transport cores based on L3 routing or IP/MPLS. Featuring both optical and electrical Gigabit Ethernet inputs, separate management and asynchronous serial interface (ASI) input, the BV-2000 V-P merges an overwhelming feature set with all interface needs.

The ability to monitor continuously 260 services with all measurements makes the portable BV-2000 V-P invaluable for field use. With a ruggedized exterior and a fanless design, this probe is the perfect fault-finding tool for the mobile engineer. With full support for the MPEG-2 TS and all current codecs, the BV-2000 V-P is an invaluable helpmate for any network engineer attempting multicast detection on multiple virtual local area networks (VLANs) or in the process of Internet group management protocol (IGMP) tracking. Fault finding in complex IP 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 establishing or modifying service settings on complex routers and switches, the BV-2000 V-P facilitates the whole process.

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

Simple network management protocol (SNMP) trapping enables the implementation of IP probes in any network management system (NMS) with alarm generation via the EXFO Vision system for advanced alarm correlation and filtering.

Basic setup is 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 BV-2000 V-P.

## ADDITIONAL FEATURES

- › Built-in 100-240 VAC PSU
- › Built-in USB to RS232 converter
- › Supports x-bit real-time transport protocol (RTP) header extension 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
- › Individual severity level settings for alarm trapping
- › Four-day history trending graph
- › IGMP monitoring and logging
- › Both IGMPv2 and IGMPv3 SSM support
- › Full 802.1Q VLAN tagging support/detection
- › PSI/SI table visualization
- › Jitter and media loss measurements
- › MediaWindow™ visualization technology
- › FSM™ monitoring of middleware services
- › Thumbnail decoding of MPEG-2 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)
- › Built-in Web-based management
- › Optional central management via EXFO Vision server
- › Optional full ETSI TR 101 290 alarming and analysis with round-robin on all 260 services
- › Ruggedized unit
- › Fanless convection-cooled operation

## SPECIFICATIONS

### 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        |

### CONNECTORS SPECIFICATIONS

|                            |                      |
|----------------------------|----------------------|
| 10/100/1000 Ethernet video | RJ-45                |
| 10/100 Ethernet management | RJ-45                |
| Optical input              | SFP module           |
| ASI input                  | 75 ohms BNC          |
| RS232 port                 | USB Type A connector |
| AC power                   | IEC 320 connector    |

### POWER SUPPLY REQUIREMENTS

|                  |                           |
|------------------|---------------------------|
| Input voltage    | 100 to 240 VAC            |
| Power required   | 20 VA, typical at 220 VAC |
| Power dissipated | Maximum 20 W              |

### 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)      |

### MECHANICAL SPECIFICATIONS

|                        |                         |
|------------------------|-------------------------|
| Dimensions (W x H x D) | 280 mm x 38 mm x 220 mm |
| Weight                 | 3.6 kg (7.93 lbs)       |

### CONTROL AND MANAGEMENT

|   |
|---|
| Basic setup/control through RS232 via USB |
| Remote access through HTTP or Telnet      |
| Optional control via EXFO Vision server   |

### COMPLIANCE

CE-marked in accordance to low voltage directive (LVC) 73/23/EEC and EMC directive 89/336/EEC. Compliant to requirements for US and Canada. Designed for CSA approval.

**EXFO Headquarters** > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | [www.EXFO.com](http://www.EXFO.com)

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