BV-1200 V-P-QAM

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

Portable verifier for cable TV and IPTV service monitoring—IP as well as hybrid IP/QAM/VSB.

KEY FEATURES

RF interface for monitoring cable TV and digital terrestrial signals

One gigabit Ethernet 10/100/1000T electrical data port

One SFP port for optical networks

One 10/100/1000T electrical management port

One ASI IN port and one ASI OUT port (type BNC)

Concurrent monitoring of 10 unicasts and multicasts

Full ETSI TR 101 290 priority 1, 2, 3, analysis and monitoring

Compliance with ETSI TS 102 034

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EXFO's BV-1200 V-P-QAM covers all the monitoring needs of hybrid IP and RF networks—both QAM and VSB. With a factory-fitted QAM input frontend option, this compact, practical faultfinding tool can handle any modern cable TV infrastructure.

This all-in-one solution includes gigabit Ethernet, ASI and QAM RF inputs, as well as a separate gigabit Ethernet management interface for easy connection to either a laptop or the management network.

By integrating a QAM input interface into the existing ASI and gigabit Ethernet interfaces, the tool provides a clear view of today's modern hybrid IP and QAM networks.

QAM FEATURES

Measure all common formats and constellations, as seen in HFC networks

Perform RF quality analysis on parameters such as MER, SNR, level or BER

Plot and zoom QAM constellation diagrams

Perform full ETSI TR 101 290 analysis on QAM transport streams

Analyze PSI/SI/PSIP table structures, plot transport stream bandwidths

Configure alarm threshold templates; convert portion of QAM transport stream to IP for storage using RDP

Compare QAM and IP structures using the innovative built-in Compare functionality

IP FEATURES

Measure up to 10 unicasts or multicasts continuously and in parallel; expandable to 50

Analyze media Window graphs for all 10 multicasts with detailed information on IP-related parameters such as packet loss, packet jitter or bandwidth

Perform full ETSI TR 101 290 analysis on any transport stream carried over IP

Relay IP multicasts to any unicast destination using RDP

ASI FEATURES

Receive transport streams as ASI; perform full priority 1, 2, 3 TS 101 290 analysis

PSI/SI/PSIP table analysis; PCR histogram; convert service or PID to IP for streaming to IP decoder or server for recording

Graph ETSI TR 101 290 alarms for the last 24 hours

QAM OPTION FEATURES

One RF input for QAM/HFC signals (type F.75 ohm)

Round-robin operation for scanning up to 50 frequencies

Full compliance with to ETS 300 249

ITU-T J.83 Annex A, B and C compliance

QAM modes: 16, 32,64, 128 and 256

Wide symbol rate (0.87 to 7.0 MS/s)

Excellent neighbor channel isolation

Pre/post-FEC BER, SNR, MER, Level

Symbol offset, frequency offset

Spectrum inversion

Zoomable constellation diagram

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SPECIFICATIONS

MECHANICAL

Portable	
Dimension (W x H x D)	135 mm x 65 mm x 450 mm
Weight (fully populated)	1.5 kg (3.3 lbs)

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

CONNECTORS SPECIFICATIONS

10/100/1000T GigE input	RJ-45
10/100 Ethernet management	RJ-45
Optical input	SFP module
RF input	F-connector, female
ASI input and output	75 ohms BNC
Serial port	USB Type A connector
AC power	IEC 320 connector

POWER SUPPLY REQUIREMENTS

Input voltage: power required: power dissipated
100 to 240V AC 20 VA, typical at 220V AC 15W

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)

ADVANCED ETHERNET TOOLS OPTION FUNCTIONALITY

FSM™ monitoring of middleware services
IGMP monitoring and logging
Advanced real-time IP protocol breakdown and analysis with individual bandwidth and frame size display

ADDITIONAL ETSI TR 101 290 MONITORING ENGINE OPTION

Full real-time ETSI TR 101 290 alarming and analysis (priority 1, 2, 3) for additional Ethernet transport streams compliance

ADDITIONAL IP STREAMS (UP TO 50)

Real-time monitoring of IP multicasts/unicasts can be upgraded to support 50 transport streams in parallel

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**

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