



The VB20 is an integral part of the breakthrough Full Service Monitoring concept.



The RFC4445 based MDI Media Window displays content loss and network jitter in a comprehensive "flow" view for correlation and status at-a-glance.



Return Data Path enables sourcing of the remote signal back to the NOC or HeadEnd for detailed analysis. Limits travel expenses and need for remote engineering.

The VB20 is the most advanced portable monitor and measurement platform in the industry. Built specifically according to the requirements of the advanced IP engineer and for lab-use, the tool is excellent for both pure IPTV networks and hybrid networks with IP transport cores based on L2/L3 or IP/MPLS. Featuring both optical and electrical GigE inputs, separate management and ASI input, the VB20 has the widest range of inputs in the industry.

The ability to monitor continuously 180 services with all measurements makes the portable VB20 invaluable for roaming use. Its ruggedized exterior and fanless design gives engineers the perfect fault-finding tool.

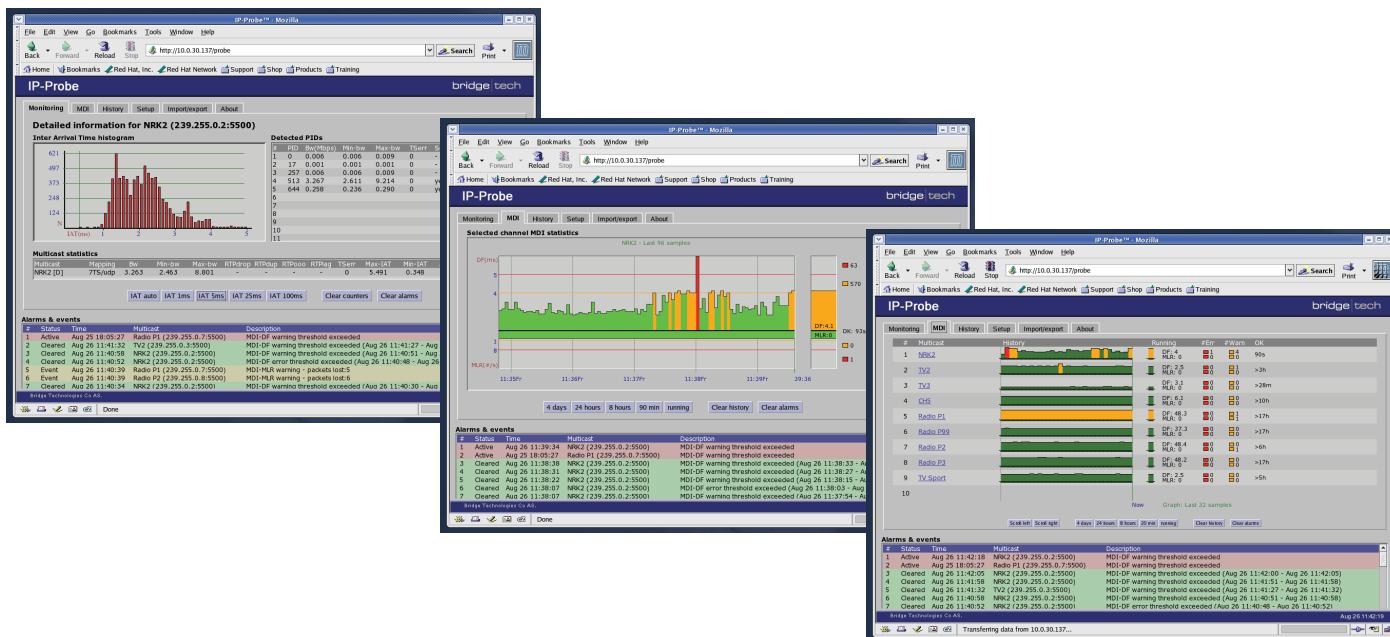
With full support for both the MPEG2-TS and MS RTP encapsulation standards and all modern codecs, the VB20 is built for real-world use. The hardware is telco-grade and built to the strictest of standards.

Critical parameters such as RFC4445 - MDI and detailed jitter values give accurate reading of network performance. With the RFC4445 based MDI Media Window, historical data can be easily accessed for meaningful visualization of media flow in an IP network.

SNMP support enables the IP-Probes to be implemented in any NMS system (–with alarm generation either directly from the probes themselves, or via the VBC server) for advanced alarm correlation and sifting.

Each IP-Probe runs an HTTP server with the client as a web browser, eliminating the need to install custom software on computers needing access to the measurement data. Basic setup is achieved through the built-in USB to RS-232 converter, eliminating the need for an external interface and facilitating the setting of IP addresses for access to the IP-Probe.

- 1x 10/100/1000 Mbps Ethernet port
- 1x SFP GigE port
- 1x 10/100 Mbps Ethernet management port
- 1x ASI Input port
- Ruggedized chassis in extruded aluminium, convection cooled
- Analysis of 180 IP streams per unit
- Analysis of video and network parameters
- MPEG-2, h.264/AVC and WM9/VC-1
- RFC4445 MDI measurement and analysis
- RFC4445 based MDI Media Window (patent pending)
- PSI/SI analysis
- Line speed ASI measurements
- SNTP Time Server support
- Full DHCP support
- MPEG2-TS and MF RTP support
- RTP drop, duplicate and out-of-order measurements
- RDP™ - Return Data Path
- Optional central management via VBC Server
- Built in USB to RS-232 converter



IP-PROBE FEATURES:

- Analysis of up to 180 IP multicasts in parallel
- Channel name/multicast address mapping
- Protocol mapping details
- Max, min, average bandwidth
- PID detection, PSI/SI analysis
- IAT Packet jitter measurement and drops
- RFC4445 MDI measurement re. IETF Draft (patent pending)
- MPEG2 analysis
- h.264/AVC analysis
- WM9/VC-1 analysis
- RTP Packet measurement and monitoring
- MPEG2-TS and MSRTTP encapsulation support
- SNMP support with detailed MIB
- Access control with login
- XML Alarm, event and setup import/export
- RDP™ relaying

NETWORK SPECIFICATIONS:

- 10/100/1000 Base-T Ethernet (IEEE 802.3b)
- Optical support via SFP modules
- 10/100 Base-T Ethernet management (IEEE 802.3)

MECHANICAL SPECIFICATIONS:

W x H x D: 280x 38x 220mm
Weight: 3,6 kg

CONTROL AND MANAGEMENT:

- Basic setup/control through RS232
- Remote access through HTTP/TELNET
- Optional control via VBC Server

ENVIRONMENT SPECIFICATIONS:

- Operating temperature: 0oC to 50oC
- Storage temperature: -20oC to 70oC
- Operating humidity: 5% to 95% non-condensing

CONNECTOR SPECIFICATIONS:

- 10/100/1000 GigE input: 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 240V AC
- Power required: 20 VA, typical @ 220VAC
- Power dissipated: Maximum 13W

COMPLIANCE:

CE-marked in accordance with low voltage directive (LVD) 73/23/EEC and EMC directive 89/336/EEC. Compliant to requirements for US and Canada. Designed for CSA approval. Specifications and product availability are subject to change without notice.

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