

IBC 2004 Product Fact Sheet

DVStation: *The Most Advanced Guardian Available to Continuously Monitor the Quality of Digital Signals and Content*

DVStation-Remote: *Affordable, Expandable Real Time Preventative Monitoring for Smaller or Remote Facilities*

DVStation-Pod: *Low Cost, Compact Single Source Test Analyzer*

DVStation-IP: *The World's First Real Time Test and Monitoring Tool for MPEG over IP*

DVStor: *Direct and Reliable long term storage of line MPEG-2 transport streams*

DVShift: *Real Time User-Controllable Delay of MPEG transport streams*

DVShift-HD: *Real Time User-Controllable Delay of SD and HD SDI*

DVScope: *Scalable and Flexible Software-based Solutions for Verification, Test, and Measurement of SDI video transmission*

DVScope Quality Auditor: *Combines testing, measurement, monitoring and reporting of both SDI baseband parameters and picture quality into a single product.*

DPI Auditor: *The Leading Digital Program Insertion Monitoring and Verification tool*

ConsolidatorPlus: *Centralize and Visualize Performance and Fault Information Across Networks and Geographies*

QAM: *All-in-one preventive monitoring solution for cable broadcast networks.*

DigiCipher II: *A combination of real time signal measurements with user configuration alarm thresholds and graphical displays.*

Key Features for DVStation:

- Simultaneous real-time measurement of up to 21-inputs
- Variety of input modules:
 - ASI/SPI Transport Stream Processor
 - QPSK DVB-S TSP
 - QPSK IF (intermediate frequency) TSP
 - COFDM DVB-T TSP
 - QAM DVB-C TSP
 - Sonet/SDH 155 Mbps optical ATM IF
 - SDI Quality Monitor Module
 - SDI Freeze Frame Detector
- Unique On-air Content Validation (OCV) identifies service content problems in real-time.
- Programmable triggers for errors, bandwidth, and content errors

- Automatic 96 MB transport stream capture with variable pre-trigger
- Concurrent multi-user architecture
- Multiple remote control options: LAN, WAN, dial-up modem, Web browser, VNC, SNMP, CORBA, etc.
- Field upgradeable software

Key Features for DVStation-Remote:

- Same level of in-depth signal monitoring and analysis as the award-winning DVStation (from one to four interfaces)
- Cost-effective monitoring of RF, ATM, MPEG, and SDI signals
- Real-time analysis in compact configuration
- Transport stream capture
- Automatic On-air content validation
- Compact 1RU rack mount package

Key Features for DVStation-Pod:

- RF & MPEG commissioning & installation
- Real-time portable analysis
- Power & performance at a reasonable price
- Six models available:
 - ASI/SPI/SMPTE-310
 - QPSK L-Band
 - ATM
 - COFDM
 - SDI Picture Quality Monitor
 - SDI Audio Monitor
- Transport stream capture
- Captured files off-line analysis
- Full support for ATSC, DVB, and ISDB

Key Features for DVStation-IP:

- 10, 100, or 1000 Mb/s Ethernet test port
- MPEG-2 over UDP or RTP/UDP
- Real-time comprehensive transport stream monitoring:
 - Bandwidth utilization
 - Packet interval
 - TR101-290 compliance
 - PCR Jitter
 - Real-time transport stream decode
 - Real-time PSI/SI/PSIP table decode
- Configurable thresholds and alarm settings
- Bandwidth displayed by service name
- Auto On-air Content Validation
- Live video display
- HTML, SNMP, and CORBA remote control
- Compact 1RU rack mount package

Key Features for DVStor:

- Directly records MPEG-2 transport stream up to 50 Mb/s.
- Available in 250 GB, 500 GB, and 1TB configurations to provide up to almost three days of storage
- Tight integration with DVStation enables detailed *post mortem* troubleshooting

- Dual power supplies provide fault tolerance

Key Features for DVShift:

- Flexible, User-Defined Delay Interval
- Delay of up to 140 hours of a 19.2 Mb/s transport stream
- Available in 500 GB or 1 TB RAID configuration
- Automatic calculation and display of the upper limit for speedy set-up
- Built around a 1.8 GHz Pentium® CPU
- Linux Red Hat 8.0 for maximum system stability
- Rugged industrial casing features two hot-swappable power supplies with automatic input voltage selection
- Self-monitoring features can notify operators and NMS of failure or loss of input transport stream
- User-configurable parameters and status can be queried from any SNMP compliant NMS via the built-in SNMP MIB
- System parameters and settings locked during normal operation against accidental modification

Key Features for DVShift-HD:

- Provides digital delay and time shifting for SD and HD SDI signals for both video and embedded audio
- Very cost-effective
- User-selectable delay of SD/HD SDI signals
- Available in two models
- Providing up to 10s of delay
- Supports all video formats
- Automatically detects input format

Key Features for DVScope:

- Supports an array of video formats
- Flexible waveform displays in YPrPb or RGB domains
- High-resolution vectorscope display
- Clear pixel data display
- Video status window with programmable error alarm
- Automatic error logging with timecode
- User-selectable audio status and monitoring
- Real-time full-motion uncompressed video recording
- Control and interface (GUI)
 - Simple, user-friendly and customizable web browser interface
 - SNMP MIB and Traps

Key Features for DVScope Quality Auditor:

- Available in HD/SD or SD only formats
- Combination of SDI and picture quality monitoring
- Supports an array of video formats
- Automatic Quality Assurance and Real Time reporting
- Video status window with programmable error alarm
- User-selectable audio status and monitoring
- Unique full-motion playout system
- Real-time full-motion compressed and uncompressed video recording and reporting
- Choice of XML output report
- Configurable alarms to remote monitoring systems
- Simple, user friendly and customizable windows GUI

- Available in 1U rack mounted chassis configuration or rugged luggable PC

Key Features for DPI Auditor:

- Incoming splice message validation
- Online log of all messages
- Capture incoming and outgoing transport stream upon splice message arrival
- Offline confirmation of splice and content
- Alarms on arrival of user selectable tables or fields within a table
- Long-term storage of logs
- Search capabilities for easy retrieval of logged information
- Report generation of summarized or consolidated user specified parameters
- Simple, easy to use and customizable control and interface (GUI)
- Compatible with DVStation, DVStation-Remote, and DVStation-IP

Key Features for ConsolidatorPlus:

- Integrated fault and performance management system
- Unified global network status display; drill down through multi-level GUI for in-depth troubleshooting
- Multiple, user-definable views
- Supports multiple sites, multiple interfaces
- Reliable, fault tolerant, and scaleable system
- Based on industry standard TCP/IP and SNMP technologies
- Flexible reporting and configuration tools
- Real time alarms plus historical trend analysis
- Easily create & modify custom configurations – drag and drop!
- Open architecture provides quick device support

Key Features for QAM:

- J8.3 Annex A, B and C
- DVB-C (EN 300 429) QAM demodulator
- RF input with complete coverage of 47-862 MHz range
- IF input at 36.125 MHz
- QAM RF analysis including MER, BER and RS performance.
- Long-term logging of modulation and TS monitoring measurements parameters for trend analysis
- Multi-user remote access over LAN, internet, or modem connection
- Real-time, high resolution constellation display
- Up to 10 complete DVB-C RF and TS monitoring solutions in one DVStation DVS210 mainframe
- Up to 21 complete DVB-C RF only monitoring solutions in one DVStation DVS210 mainframe

Key Features for DigiCipher II:

- DigiCipher II demodulator
- Modulation analysis including SNR, MER, and EVM
- Forward error correction analysis with BER measurements through the FEC chain
- Transport stream signal and service integrity validation
- Long-term logging of modulation and transport stream measurements for trend analysis
- Multi-user remote access over LAN, internet, or modem connection
- Up to 10 complete DigiCipher II monitoring solutions in one DVStation DVS210 mainframe