Ultra-Portable IP/RF Monitoring Probe

VideoBRIDGE Nomad Pro

With support for almost all modern broadcast delivery technologies, Nomad Pro is the Swiss Army knife of digital media monitoring. It enables instant understanding and deep analytics of OTT multiscreen streams, IP multicasts, SDIoIP, ASI, satellite, terrestrial and cable sources. Nomad Pro covers all the monitoring needs encountered in hybrid IP multicast, OTT and RF networks. It is the ultimate, all-in-one and rugged monitoring and analysis solution for the technician on the move.

The Nomad Pro features an abundance of inputs including optical/electrical Gigabit Ethernet, ASI in/out, cable RF, terrestrial RF, DVB-S/S2 satellite and external 1PPS GPS time-reference. There are two versions of Nomad Pro - one for ATSC including an ATSC/QAM-A/B/C RF input and one for DVB including a DVB-T/T2/DVB-C RF input.

As media delivery technologies become more and more complex, using Nomad Pro will give invaluable insight into signal behaviors without the need for deep operator knowledge. The comprehensive IP and RF analysis tools in Nomad Pro are ideal for understanding system performance and finding issues regardless of the media transported.

Cut from a single brick of aluminum, Nomad Pro sets a new standard for both finish and ruggedness. It is also of very light weight and is the perfect companion to a laptop.

KEY FEATURES

- Intuitive web GUI for remote access via Wi-Fi or wired Ethernet
- Accurate packet behavior, IAT histogram, protocol analysis, traffic overview, autodetection of IP uni/multicast
- HLS, HDS, DASH, SmoothStream™, RTMP, post-CDN URL token support and manifest validation. Innovative framework for measuring delay of OTT services through distribution chain
- Return Data Path forwarding of any transport stream monitored with automated alarm triggered recording to 32GB of on-board Flash memory
- PCAP Ethernet packet capture onto on-board storage
- Support for MPEG2-TS. H.264/AVC HD, H265/HEVC 4K, J2K, AAC, PCM Audio, SRT web transmissions, T2-MI encapsulation and more
- Deep SCTE35 ad insertion monitoring including logging of received messages, full syntax analysis and alarming on missing messages. Also includes support for SCTE104 in SMPTE2038
- Total packet understanding with the patented MediaWindow™ visualisation technology for RTP/UDP uni- and multicasts
- The award-winning ETR290 Engine with detailed analytics of Priority 1, 2 and 3 tests plus extensions to test CA behaviour, alarm history view and timeline view
- Autonomous operation. Nomad Pro is a completely freestanding unit with its own CPU and can perform without the need for any external host system

VideoBRIDGE Nomad Standard Features

- All Nomads include 10 streams IP monitoring, 1 OTT engine, 1 ETR290 engine, SCTE35 and T2-MI monitoring, advanced Ethernet analysis and PCAP captures, plus 32GB flash storage

VideoBRIDGE Nomad Pro Exclusive Features

- Support for integrating with VideoBRIDGE controller and included Eii API for NMS control
- Includes 10 ETR290 engines, one for each of the 10 IP Uni/Multicasts it monitors. Both upgradable to 50.
- 2 included OTT engines for monitoring up to 20 OTT streams.

SPECIFICATIONS

VideoBRIDGE Nomad Pro - Ultra-Portable IP/RF Monitoring Probe

ETHERNET FEATURES

- 10/100/1000T Gigabit Ethernet interface for video/data analysis
- SFP port for optical Gigabit connectivity
- Optional second Gigabit Ethernet port
- Web-based management interface available on all ports
- SSH/TELNET terminal
- Relay video multicasts to 3rd party targets using Return Data Path
- Laser power received level for fault finding on SFPs

WI-FI FEATURES

- Provides 2.4 GHz Wireless Access Point service
- No cables or computer monitor for setup – NomadPro is WiFi Zone
- USB 2.0 IEEE 802.11 b/g/n 150Mbit/s removable Wi-Fi dongle

DVB-S/S2 SATELLITE FEATURES

- Supports DVB-S and DVB-S2 8PSK, 16APSK, 32APSK, GOLD CODES
- L-band input from 950 – 2160 MHz
- Symbol rate range between 1 – 45 MS/s
- 13V/18V/22kHz and DiseqC 1.0 capable for switch control
- High-end RF performance with constellation diagram and over 20 RF parameters
- Auto-scan feature
- 75 Ohm F-connector input

ASI FEATURES

- Seperate ASI input and output ports
- ASI input/output according to EN 50083-9, Annex B
- Supports Burst mode, Spread Mode and legacy M2S
- Output selectable from ASI, ATSC/QAM or DVB-S/S2 inputs
- Up to 211 Mbit/s incoming rate (linespeed ASI)
- 75 Ohm BNC connectors

ATSC VERSION - TERRESTRIAL AND CABLE RF FEATURES

- 8VSB for ATSC terrestrial applications
- QAM ITU-T J.83 Annex A/B/C for cable applications
- Frequency range 51-1003 MHz
- Symbol rate 0.7-7.2 MS/s
- Channel bandwidth 6/7/8 MHz
- QAM modes 16,32,64,128,256
- Constellation plot
- 75 Ohm F-connector input

DVB VERSION - TERRESTRIAL AND CABLE RF FEATURES

- DVB-T EN 300-744 and DVB-T2 EN-302-755 (v1.3.1)
- QAM ITU-T J.83 Annex A/C for cable applications
- Frequency range 42-1002 MHz
- Channel bandwidth 5/6/7/8 MHz
- QAM modes 16,32,64,128,256
- Constellation plot and channel impluse response diagram
- 75 Ohm F-connector input

PHYSICAL SPECIFICATIONS

Dimensions (WxLxH):	180x230x20 mm 7.1x9.1x0.8 inches
Weight:	0.9 kg/2 lbs.
Power Usage (Max):	22 Watts
Power Supply (Included):	External power unit 12V, 1.8A
Operating Temerature:	-20 to 45 deg. C
Operating Humidity:	5% to 95%, non-condensing
Initial Setup Method:	Wi-Fi, Ethernet or USB Type-A cable (included)