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DV-IP NV1

Closed IPTV

MULTI-FUNCTIONAL ENCODER/DECODER/ICR/ENTERPRISE VIDEO SERVER

The versatility of the DV-IP NV-1 allows it to be used as an analogue encoder, 3rd party IP camera recoder or a fully fledged, enterprise class video server with up to 8 channels in a mixture of analog and IP inputs. In addition with a HD monitor output the unit can display megapixel and HD CCTV camera sources.

ENTERPRISE VIDEO SERVER

The DV-IP NV-1 is a full Enterprise Video Server. Offering connectivity of up to 4 analogue or 8 IP cameras* and complete support for local storage, playback and control.

3RD PARTY IP CAMERA RECODING

Demonstrating the power of the NetVu Connected architecture, the NV-1 includes powerful Recoding capabilities that can decode, in real-time, any supported 3rd party IP camera stream**, and convert to a raw video image. This enables functions such as Analytics, Activity Detection, VMD and switching on alarm to be performed on any connected IP stream and introduces the ability to provide multiple streams from the same IP camera via the DVR.

ENCODING OF ANY VIDEO INPUT, REGARDLESS OF SOURCE

Any video input, regardless of source, can be seamlessly integrated into a NetVu Connected system through the deployment of an NV-1. Analogue or IP cameras, PTZ and high definition / megapixel cameras can be viewed, recorded and controlled through the unit.

DECODER FOR REMOTE VIEWING

The DV-IP NV-1 offers decoding capabilities for the viewing of remote video feeds from cameras and DVRs. With a HDMI output and multi-screen viewing, the product can be controlled as a secondary hi-definition monitor for DVRs or other NetVu Connected devices providing greater freedom to users wishing to expand the control of their network without incurring the significant associated cost.

CLOSED IPTV

Of course The DV-IP NV-1 is ready to be part of the next generation of video security – Closed IPTV. Dedicated Micros' ground breaking Closed IPTV solution makes deploying an IP Video, CCTV system safe, secure and simple. Combining patent-pending innovation with zeroconf networking technology, Closed IPTV automatically allocates IP addresses to IP cameras by physical port. In this way the system is completely deterministic, creating firewalls and monitoring IP connections by individual network ports so they cannot be hacked or intercepted.

INTEGRATED CAMERA RECORDING (ICR)

With embedded ICR Technology the DV-IP NV-1 can make any analogue or IP camera into an edge-located recording device. ICR recording can be via removable micro SD card, external USB drive or ATA over Ethernet (AoE) drive / RAID. Providing separate, remote storage for backup and long-term archiving and enables a tiered storage architecture that ensures no single point of failure.

FEATURES

- Versatile video server
- Compatible with any video input; analogue, IP or megapixel
- Encode inputs into simultaneous multiple streams of MPEG4, H.264 and MJPEG
- Recoding 3rd party IP cameras for data analysis, alarms and analytics
- Decoder capability for viewing remote video
- Integrated Camera Recording (ICR) capability
- Real-time recording per camera
- PoE capability removes the need for a dedicated power source
- Forms part of a Closed IPTV system when used with a Layer 3 Enhanced CCTV Switch
- Multicasting – push any video stream onto a network for viewing by multiple users
- HDMI Main monitor output for high definition display
- Dual ethernet connections
- **Analytics***Capable*
- On-screen telemetry control with Point&Go and Absolute Positioning
- Text support - capture text and embed till, ATM or analytics data with video
- Serial and IP Telemetry Control
- **Multi***Mode* Recording
- **Trans***Coding* - High quality recording and simultaneous video transmission using MPEG4, JPEG or H.264 for playback
- Per camera Polymorphic streams change resolution, bit rate and compression mid stream
- Embedded Operating System

SPECIFICATION

CAMERAS
4 analogue inputs. Auto detection on power up. Alarm on Camera Fail. 8 camera streams supported of which 4 can be analogue with the remainder being made up of IP streams.*

RECORDING
Real-time recording or encoding at up to 200/240pps CIF across all connected cameras
For example: 4 cameras 25pps @ 2CIF per camera.
2 cameras 25pps @ 4CIF
1 camera, 25pps @ 720p/1080p or
2Megapixels (4:3)

MULTICASTING
The DV-IP NV-1 can push any live video stream onto a network to enable multiple viewers to view the same data stream (using a suitable media player) without having to connect and request images. This form of multicasting reduces the demands on the unit and improves system performance.

DECODING
Decode up to 400pps @ CIF in MPEG4 or 200pps @ CIF in H.264
For example: Decode up to 3 real time 4CIF streams in MPEG4
Decode up to 12 real time CIF streams in MPEG4
Decode 12pps 2MP or 720p/1080p stream to a 720p HDMI monitor output

ENHANCED USER INTERFACE
The DV-IP NV-1 is equipped with enhanced user features to greatly improve the operator experience. These include a new graphical timeline bar for navigating playback video, an interactive on screen map, colour-coded context sensitive menus and on-screen telemetry with Point&Go and Absolute Positioning.

STORAGE
32GB of on-board storage via Micro Sd Card (2GB card supplied, optional 16 or 32GB available). Additional storage available via Hi speed 2.0 USB (480Mbit/s) port or AoE.

MONITOR VIEWING
Main Monitor: Composite or HDMI 1.3 (720p) Output

REMOTE VIEWER
Integrated into the configuration web pages, the remote viewing client reflects the local on-screen user interface.

MULTI*MODE* RECORDING
Set different record rates, resolutions (QCIF to 4CIF), and compression algorithms (MPEG-4/JPEG/H.264) dynamically on individual cameras and across the whole unit for both normal and alarm modes.

REMOTE CAMERA CONFIGURATION
Configure Infiniti cameras and CamVu products directly through the menu interface and web pages of the DVR.

VIDEO MOTION DETECTION
Programmable VMD grid with individually definable zones per camera. User-definable sensitivity for each zone and pre and post activity recording, definable by user.

ALARMS & RELAYS
3 normally open/closed alarm inputs
1 global keyswitch assigned to any of these inputs all alarm inputs are BS8418 compliant
1 relay output configurable to trigger in response to events, solid state 60V @ 600mA

ALARM ZONES
Alarm zones combine multiple alarm inputs to generate alarm events. This can help to minimise false triggers, e.g. you can set an alarm to be triggered by a combination of a PIR and Camera VMD to remove mis-triggers from either source.

AUDIO
Line Level Input: 2x 3.5mm phono jack
Line out: 2x 3.5mm phono jack
Local and network audio record and playback

EVENT COPYING
Event Copying / Selective Archiving of video via USB ports

TEXT SUPPORT
The unit can search captured transaction data for specific goods purchased, transaction numbers, credit card references, keywords etc. and jump straight to the associated video sequence.

ANALYTICS*CAPABLE*
Analytics*Capable* products can be upgraded to run a range of Dedicated Micros analytics components including; ANPR, Object Left/Removed, Detection Tripwire and Counting Tripwire. The Encoder ICRs hardware is AnalyticsCapable allowing any compatible analytics software to be run on the unit.

TELEMETRY
Built-in RS485/Twisted pair protocols including but not limited to the following: Dedicated Micros 2040, 2060, Oracle, Honeywell / VCL Orbiter & Jupiter Micro-spheres™, GE CyberDome™, BBV RS485 StarCard Bosch/Philips G3, American Dynamics, Panasonic, Pelco P, Pelco D

DATA PORTS
Serial Ports: 1x RS485/422
Ethernet: 2x Ethernet RJ-45 10/100 connection,
USB: 3 – 2x USB 2.0, 1x mini USB (USB Mouse & Keyboard Control supported)
Keyboard: 1 x RJ12 (KBC1/KBC2 Keyboards)
IR Remote: IR Control via NetVu Connected remote control, IR adapter required via 2.5mm IR Jack

POWER OVER ETHERNET
IEEE 802.3af-2003 (12.95W). End span and bridging injectors supported

ANCILLARY DATA
Compression: JPEG, MPEG-4 & H.264 format files
Dimensions: 125 x 130 x 58 (mm)
Weight: 0.77Kg (1.7 lbs) excluding PSU
Power Supply: 12W External Power Supply, PoE is also supported
Temperature Range: 5 - 40
Relative Humidity: 10% - 85% Non-condensing
Warranty: 3 Years

Partcode	Description
DM/DVIP/NV1	Hybrid Encoder/Decoder/Enterprise Server, ICR, HDMI, PoE

** Above the stated 'analogue' camera connections. Connected IP cameras must be NetVu Connected utilising Remote Codec. Maximum input bandwidth (network) is 8 Mbits/s*
*** Connection of 3rd party IP cameras will incur a one-off nominal license charge – Licenses for NetVu Connected cameras are free*
To fully realise the benefits of the DV-IP NV-1please ensure it is operating the latest software release.Available from the Dedicated Micros website.