DV-IP NV8

FLAGSHIP ENTERPRISE VIDEO SERVER

The DV-IP NV8 is the flagship product in the DV-IP Range, offering real-time, full resolution recording on all connected cameras – be they analogue or IP*. An internal switch delivers high bandwidth video streams enabling 300Mbps of high definition streaming video for display when using 2 connected HDMI monitors. The DV-IP NV8s embedded real-time operating system (RTOS) has been designed from the ground up to specifically meet the needs of security applications.

TRUE HYBRID - IP OR ANALOGUE CAMERAS

The DV-IP NV8 is a true hybrid video server. Offering up to 32 camera connections in a combination of analogue or IP (including 3rd party IP cameras). Up to 16 analogue cameras can be connected, with the balance of the 32 camera connections being made up by IP camera streams - even HD cameras.

HIGH BANDWIDTH VIDEO STREAMING

The DV-IP NV8 includes a built-in switch to enable enable high bandwidth streaming of video. Video streams to be sent directly to the codec for real-time encoding of high resolution video.

HIGH DEFINITION DISPLAY

With the inclusion of two local HDMI display outputs the DV-IP NV8 is able to instantly display live and recorded image streams from high definition and megapixel IP cameras.

FLEXIBLE ENCODING & DECODING CAPABILITIES

The DV-IP NV8 has the ability to be used as a traditional Video Server solution or the powerful codecs can be focused on just encoding or decoding as part of a Pure IP System. For example in a control room scenario the DV-IP NV8 can be used to provide to completely configurable, high definition video monitors.

VIEW & CONTROL REMOTE CAMERAS & SERVERS DIRECTLY

In addition to local control functionality, the DV-IP NV8 is equipped with a sophisticated digital matrix Video Management System (VMS), Embedded NetVu Console, that enables cameras connected to any NetVu Connected device on the same network to be viewed and controlled as if they were connected directly to the Video Server. This powerful feature allows users to access thousands of cameras from their local control position.

CLOSED IPTV

Dedicated Micros' ground breaking Closed IPTV solution combines open standard IP protocols with patent pending innovation to provide simple to install, safe and secure IP video solutions across new or existing networks. Automatically allocating IP addresses to IP cameras by physical port, a Closed IPTV system is completely deterministic, creating firewalls and monitoring point-to-point IP connections so they cannot be hacked or intercepted. Critical to the security of a Closed IPTV system is the unique implementation of Trusted Endpoint technology; a secret signature, applied at lock down, enables endpoint devices such as IP cameras to be secure, immediately triggering a security alert should any interference be detected.

Leverage the powerful DV-IP NV8 to incrementally grow your camera estate. Combine existing installed analogue cameras with secure IP and HD cameras from a Closed IPTV system, all shown together seamlessly. **All that is required to take the next leap in video surveillance technology is Dedicated Micros unique Layer 3 Enhanced CCTV Switch and NetVu Connected IP cameras.**

FEATURES

- Enterprise Video Server with RTOS
- Real-time, 4CIF/D1 recording per camera
- Up to 32 inputs in a combination of analogue or IP*
- Internal switch provides up to 300Mbps of streaming
- Achieve playback recording, live viewing, streaming & archiving simultaneously
- Can be deployed as a Video Server, full encoding engine or full decoding engine
- Forms part of a Closed IPTV system when used with a Layer 3 Enhanced CCTV Switch
- 2 HDMI main monitor outputs for high definition display
- HD IP Camera Recording
- 6TB of local storage, expandable using eSATA and AoE RAID
- **Analytics**Capable

- Embedded VMS - NetVu Console
- On-board Help Videos
- MultiMode Recording – Dynamically-switchable resolution, record-rate & compression (MPEG4/JPEG/H.264) per camera
- Built in DVD-R writer and USB ports for archiving evidential material
- TransCoding - High quality recording and simultaneous video transmission using MPEG4, JPEG or H.264 for playback
- Recoding of 3rd party IP cameras and devices
- Per camera Polymorphic streams change resolution, bit rate and compression mid stream
- Embedded Operating System

SPECIFICATION

CAMERAS

16 analogue inputs. Auto detection on power up. Alarm on Camera Fail. 32 IP camera streams supported of which 16 can be analogue with the remainder being made up of IP streams.*.

RECORDING

Real-time per camera @ 4CIF/D1 irrespective of analogue or IP source*. The maximum performance parameters shown here are achievable when Turbo mode is enabled.**

RECODING

The DV-IP NV8 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.

PERFORMANCE BOOST WITH TURBO MODE

The Turbo Mode feature ensures maximum per camera performance. Enabling Turbo Mode can effectively double the units performance allowing real-time recording at double the resolution.

STORAGE

6TB of on-board storage, additional storage available via eSATA ports, and AoE RAID devices. Diskless model also available.

ENHANCED FAILOVER OPERATION

DV-IP NV8 units can be paired together to enable dual redundancy on each connected camera. Should a failure be detected on one unit all its IP cameras are streamed to the second unit and both sets of cameras are recorded at half the specified record rate available.

MONITOR VIEWING

Main Monitor: 1x HDMI, 1x Composite
Spot monitor: 1x HDMI (digital spot), 1x Composite
(When used as a Decoder the 2 HDMI monitor outputs can be configured for display)

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/D1), and compression algorithms (MPEG-4/JPEG/H.264) dynamically on individual cameras and across the whole unit for both normal and alarm modes.

TRANS*CODING*

Transmit multiple simultaneous MPEG-4, H.264 and/or MJPEG recorded image streams to any number of associated devices for image viewing. Each stream can be tailored to suit the viewer's bandwidth requirements. In addition this operation is carried out completely independently of the recording format (MPEG-4, H.264 or MJPEG) which enables any recorded format to be transmitted in any other supported format.

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. Only a software licence upgrade is required to deploy analytics. Please contact our Customer Services team for more information.

REMOTE CAMERA CONFIGURATION

Configure Oracle Domes, Infiniti cameras and CamVu products directly through the menu interface and web pages of the DVR.

EVENT COPYING

Event Copying or Selective Archiving of video to DVD or USB device.

MULTICASTING

Push any live video stream onto a network to enable multiple viewers users to view the same data stream (using a suitable media player) without having to connect and request images.

ACTIVITY DETECTION

Activity detection will switch the selected camera from normal record profile to alarm record profile.

VIDEO MOTION DETECTION

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

ALARMS AND RELAYS

20 Normally open/closed tamper proof alarm inputs. 1 global keyswitch can be assigned to operate from any of these inputs and is configurable with entry/exit route timers. 4 relay outputs are configurable to trigger in response to events.

ALARM ZONES

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

AUDIO

Line in: 16x 1V pk-pk, RCA phono socket
Line out: 2x 1V pk-pk, RCA phono socket
Local and network audio record and playback

HELP VIDEOS

The DV-IP NV8 includes on board help videos for assistance on both User and Configuration features. The help videos cover all major operation and configuration topics including: Live and Playback control, telemetry control, alarm configuration, event reviewing and archiving.

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.

TELEMETRY

RS485/Twisted pair and Coax protocols supported including but not limited to: Dedicated Micros 2040, 2060, Oracle, Pelco P/D/C, Honeywell / VCL Orbiter & Jupiter Microspheres™ (Serial Only), GE CyberDome™, BBV RS485 StarCard, Bosch/Philips G3, American Dynamics, Panasonic. Also supports Point&Go and Absolute Positioning when connected to an Oracle Dome over RS485

LOCAL CONTROL

Attached telemetry keyboard, the supplied IR remote, USB mouse or USB QWERTY Keyboard.

DATA PORTS

Serial Ports: 2x RS485, 2x RS232
Ethernet: 1x Ethernet RJ-45 10/100, 3x Ethernet RJ-45 10/100/1000 .
USB: 3 x USB 2.0 Connector (1 front, 2 rear)
eSATA: 2x eSATA port
Keyboard: 1 x RJ12
IR Remote: 1x IR sensor at front of unit, IR Jack at rear

ANCILLARY DATA

Compression: JPEG, MPEG-4 & H.264 format files
Dimensions: 89mm (H) x 440mm (W) x 537mm (D)
Weight: 11.4 kg (25.1 lbs) with built-in PSU
Power Supply: 250W Internal Power Supply
Relative Humidity: 10% - 85% Non-condensing
Warranty: 3 Years warranty including HDDs

Model Code	Description
DM/DVIP/NV8/MAX	Enterprise Class NVR/DVR, 32Ch, Real-time 4CIF per camera, 6TB, Built-in Switch
DM/DVIP/NV8/0GB	Enterprise Class NVR/DVR, 32Ch, Real-time 4CIF per camera, 0TB, Built-in Switch

*Above the stated 'analogue' camera connections, connected IP cameras must be NetVu Connected utilising Remote Codec. Maximum input bandwidth (network) is 300 Mbits/s. **Turbo Mode is achievable in MPEG4. See website for full performance parameters. *** Connection of 3rd party IP cameras will incur a one-time nominal license charge – Licenses for NetVu Connected cameras are free.*

BS 8418 COMPLIANT