DV-IP EXPRESS

ENTRY-LEVEL, REAL-TIME DIGITAL RECORDING

DV-IP Express is the newest member of the NetVu Connected family. As an entry-level desktop video server, it provides incredible performance, combining high frame rate recording with real-time live multi-screen viewing in a cost-effective package.

Designed for the cost-conscious user who wants the latest security features without breaking the bank, the DV-IP Express is ideal for customers who are looking to deploy a low-cost, real-time CCTV system or upgrade their existing solution with a practical, cost-effective DVR.

With up to 25pps MJPEG or MPEG-4 available on each channel (@CIF), and available in 8, 12 and 16 camera models, the DV-IP Express can record up to 16 cameras, simultaneously in real-time.

Offering the maximum viewing flexibility, the DV-IP Express can display in full-screen, quad, and a variety of multiscreen display formats, all of which will have realtime updates in live mode.

Perfect for small to medium sized installations requiring real-time recording on all cameras but do not have, or wish to spend, the higher budget associated with advanced end-to-end enterprise CCTV systems - the DVIP Express's multi-camera real-time recording capability and real-time, multiscreen monitor display is ideal for applications such as small business premises and commercial outlets.

FEATURES

- 25pps (CIF) Recording on each camera (MJPEG/MPEG-4)

- Option to record at QCIF, CIF, 2CIF & 4CIF in (MJPEG/MPEG-4) on each camera

- Real time multiscreen live display

- 8, 12, 16 Camera models

- VGA Monitor Output

- Built in DVD-R writer and USB ports for download of video archive to external flash memory

- Simultaneous MPEG-4 & JPEG transmission and recording

- **Multi***Mode* Recording - Dynamically-switchable resolution, record-rate & compression (MPEG4/JPEG) per camera

- Remote Alarm Reporting using Ethernet & Email

- All video server functions fully supported by unique colour coded soft key control via IR Remote or optional keyboard

- Coax Telemetry control

- Dual channel bi-directional audio

- NetVu ObserVer remote viewing software

- Browser and Mobile PDA viewing options

- Can be used for central monitoring applications (BS-8418 compliant)

- Can be configured and controlled via USB mouse

- Displays common configuration interface when accessed locally at the unit or remotely via a web browser

NetVu CONNECTED · DEDICATED MICROS

CAMERAS

8, 12, 16 camera inputs available. Auto detection on power up. Loop through BNC connectors provided for each camera input. Alarm on Camera Fail.

RECORD RATE

Record rates of up to 25pps (PAL), 30pps (NTSC) per camera channel at CIF.
2CIF available at 12pps (PAL), 15pps (NTSC) per camera
4CIF available at 6pps (PAL), 7pps (NTSC) per camera

RECORDING

Playback and record to hard disk simultaneously.
Alarmed or manually selected images can be protected from being overwritten.

LANGUAGES

Including: English, German, French, Spanish, Italian, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish.

MONITOR VIEWING

Main Monitor:
Composite & VGA Outputs
Full screen, picture in picture, quad viewing and live multiscreen display

Spot Monitor:
Composite Output
Full screen, sequence

REAL TIME LIVE MULTISCREEN DISPLAY

The DV-IP Express offers the user maximum viewing flexibility, displaying full-screen, quad, and a variety of multiscreen display formats, all of which will have realtime updates in live mode.

HIDDEN CAMERAS

Option to view all or selected cameras, without affecting cameras recording.

SCHEDULING

Choice of day, night or weekend scheduling offers the ability to automatically:
• Alter the record rate for background alarm and activity recording
Activation is via a timer or keyswitch alarm input.

TIMED EXPIRY

Timed expiry option allows images to be held for a selected number of days
Images on the disk which are older than the number of days selected are not accessible

ALARMS AND RELAYS

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

ALARMS

Individual configurable alarm responses include; move camera to preset, activate a relay, remote alarm reporting, email on alarm, log event, switch camera.

ACTIVITY DETECTION

Each activity detection will switch the selected camera from normal record profile to alarm record profile. This feature can also; log the event, activate a relay, switch camera, email on activity and remote alarm reporting.

VIDEO MOTION DETECTION

Programmable 16x16 (PAL) grid (16x14 NTSC) with 5 levels of sensitivity for each camera view.
16 advanced VMD trigger zones with individual sensitivity on a 88x64 (PAL) grid (88x60 NTSC) for each camera.
This is based on standard resolution settings of 720x256 (PAL) and 720x240 (NTSC).
Options:
• Up to 15 minutes of protected pre and post activity recording
• Protect VMD images from overwrite for configurable period of time
• Main monitor display of last VMD camera, or all VMD cameras in sequence or multiscreen
• Buzzer activated on VMD (available in a future release)
• Light duty relay output triggered on VMD activity
• Instant messaging to remote network client on VMD
• Automatic archive of VMD to FTP server or DVD-R/CD-R

E-MAIL NOTIFICATION

Emails can be sent on alarm or other critical events.
Notifies the following events on a camera by camera basis:
• Alarm
• Activity
• Camera fail
• Power up
Access to mail server via Ethernet is required for this feature.

AUDIO

Dual Channel Bi-directional Audio
Connections: Line in: 1V pk-pk, RCA phono socket
Line out: 1V pk-pk, RCA phono socket

SEARCH AND PLAYBACK

• Fast picture search and pause keys
• Event list, including event list filter with unique quadrant preview facility
• GOTO time and date
• Playback in quad, multiscreen, picture in picture and full screen

EVENT COPYING

Event sequences and user defined recorded sequences can be saved to a CD or DVD via the integrated DVD-writer or to external flash memory through the USB port

MANAGED STORAGE FOR CCTV

• Support of a single DM Managed Storage expansion unit connected via external SATA connection
• Managed Storage Units provide a high-capacity, environmentally managed storage in a single box
• Disk temperature is maintained at a constant level, extending drive life
• Management of disks running - only spinning those in use can extend drive life
• Due to changing drive sizes contact DM's Customer services department for the latest details on DM Managed Storage Units models

TEXT SUPPORT
Through the inclusion of Text Support, the DV-IP Express can search captured transaction data for specific goods purchased, transaction numbers, credit card references, keywords etc. and jump straight to the associated video sequence.

NetVu CONNECTED
The DV-IP Express is built on our core NetVu Connected technology, ensuring seamless compatibility with future developments in networked security. NetVu Connected technology enables the DV-IP Express to fully interoperate with other NetVu Connected products including the DV-IP Decoder, DV-IP Server, NetVu Console, HighVu Excel and NetVu ObserVer. As a NetVu Connected product, the DV-IP Express can be seamlessly integrated into our award winning Emergency Messaging and Mass Notification System.

NETWORK CAPABILITIES
A standard Ethernet connection allows live and recorded viewing on a networked PC using DM's NetVu ObserVer software. Network viewing is independent and does not affect the recording or local operation. The DV-IP Express includes a network bandwidth limitation option, which allows the bandwidth used by the DV-IP Express to be capped. For low bandwidth remote network links, viewing applications can request that video is sent in MPEG-4 format, while local network viewers can simultaneously view using high quality JPEG images.

Note: The resolution setting of the unit (i.e. 4CIF) and the global record rate (i.e. 100pps) are mutually dependent. Please see the Record Rate section for further information.

COMMON CONFIGURATION INTERFACE
A Common Configuration interface is displayed when the units' configuration screens are accessed locally at the unit or remotely via a web browser. This unified system ensures that the installer is familiar with the configuration screens irrespective of their location to the unit, minimising training and familiarisation time and increasing the speed of installation and alteration to features.

COLOUR CODED MENUS
The DV-IP Express includes a unique colour-coded, soft key menu structure and onscreen GUI. Context sensitive, the menu structure always represents the area of the menu the user is in, allowing them to quickly select the options and settings they need without having to trawl through menu pages and options. The colour coded buttons displayed on the monitor match those on the IR Remote, whilst control can also be conducted through an attached USB Mouse or USB Keyboard.

VIDEO TIMELINE
The Timeline feature is a new intuitive interface for the control and navigation of playback video. With control via IR Remote or connected keyboard, the colour-coded on-screen display matches the keys on the remote or keyboard allowing the user to control the video forward or backwards in incremental steps of seconds, minutes, hours, days and weeks. Ideal for the rapid search of captured video, the Timeline feature is available in the whole range of next generation DV-IP products including DV-IP RT, DV-IP HD and the new DV-IP Server.

MAPS
Users can now navigate around their CCTV installation using a graphical map presented on the local monitors screen. Selecting the relevant camera from the map will instantly connect the user to that cameras image stream. With the ability to load bespoke map images and floor plans on the DVR to reflect their installations, the Maps feature is ideal for quickly identifying camera locations around a site or CCTV network.

point&go

Point&*Go* provides the user with easy to use, fast, accurate telemetry control via an attached monitor. With no need for a telemetry keyboard, users are able to use Pan & Tilt control of a DM Oracle Dome simply by clicking an area of the monitor – the camera will instantly respond, positioning the selected area in the middle of the screen, Ideal for tracking movement through a scene. ^

ELECTRONIC PTZ (ePTZ)*
Offering a capability over and above traditional 'digital zoom' techniques, Dedicated Micros Electronic Zoom uses an advanced image 'interpolation' algorithm that reveals detailed information that simple pixel-stretching digital zoom commands cannot

With a simple key-press, users can operate Electronic Zoom as they would Analogue Zoom – moving around the scene and zooming in / out using the associated keyboard joystick or remote control – even on static analogue cameras.

ABSOLUTE POSITIONING
Absolute Positioning uses the Camera selection Map capability of the DV-IP Express, and the unique Absolute Positioning capability of Oracle Domes to allow an operator to, with one mouse click, select a camera and send it to view an area of the site. ^

^ Absolute Positioning and **Point&***Go* require an Oracle Dome connected via RS232 to a Next Generation DV-IP product such as the DV-IP Express

* Available in future software upgrade

SPECIFICATION

REMOTE VIEWING & CONTROL

Pick-A-Point

The Pick-a-Point system brings together the CCTV system components into the control room environment, providing you with a dedicated multiple site video management solution for medium and large scale CCTV deployments.

Pick-a-Point is able to replicate the simplicity of operation associated with a traditional analogue matrix by allowing control of multiple video servers without the need for thousands of metres of cabling. It also offers the potential to build scalable video walls - including HD displays – that allow cameras from any number of monitored sites to be viewed simultaneously.

NetVu ObserVer

• Live full, quad, 6, 9,16 and 32 way screens
• VCR style fast forward and rewind, playback and frame advance/rew
• GOTO time and date
• File export of digitally signed images over the network to the user's PC
• Viewing of archived images
• Telemetry control, including PTZ and telemetry presets
• Multiple user access
• Site map
• Network viewing is also available for Mac OSX and Linux

See the latest NetVu ObserVer datasheet for more information.

Standard Browser

Integrated into the configuration web pages is a remote viewing client that duplicates identically the local on-screen user interface of the video server.

Removing the need to install any separate software this remote viewer can be used on any compatible browser and through mobile devices such as PDA's and smartphones

IR REMOTE CONTROL

Operation of PTZ camera selection and control, Copy of data to external media, Panic button, live and playback review controls, viewing configurations and soft control functionality.

TELEMETRY

Built-in RS485/Twisted pair and coax protocols provide direct control of the numerous domes including but not limited to the following:

• Dedicated Micros Dennard 2040 to Dennard 2060
• Honeywell / VCL Orbiter & Jupiter Microspheres™
• GE CyberDome™ • BBV RS485 StarCard • Bosch/Philips G3
• Pelco P Spectra II, Spectra III • American Dynamics
• Panasonic

COLOUR RESOLUTION

Sampling rate: 13.5 MHz to CCIR 601
16.8 million colours 256 levels of grey, 8-bit luma

COMPRESSION

JPEG & MPEG-4 format files.

RESOLUTION

QCIF, CIF, 2CIF and 4CIF resolution
PAL: Max 704h x 512v, NTSC: Max 704h x 480v
See MultiMode section for more information

DATA PORTS

Serial Ports: 2x RS485, 2x RS232
Ethernet: 1x Ethernet RJ-45 10/100 Ethernet connection.
USB: 3 x USB 2.0 Connector (1 positioned at front of unit)
Keyboard: 1 x RJ12

ENVIRONMENTAL

Temperature range: 5 - 40°C
Relative humidity: 10% - 85% Non-condensing.

WARRANTY

3 years warranty including HDDs.

WEIGHTS & MEASURES

Weight: 9.7Kg
Dimensions: 440x90x445 (WxHxD mm)

PLEASE CHECK THE WEBSITE FOR DETAILS OF COMPATIBLE PRODUCTS AND OTHER LATEST DEVELOPMENTS

Model Code	Description
8 CHANNEL	
DM/DVPE/8X30	8 channel video server, 2 audio, alarm, 500GB, Global 200 PPS, DVD-R, coax/RS485, SATA, USB, 30 day recording
12 CHANNEL	
DM/DVPE/12X30	12 channel video server, 2 audio, alarm, 750GB, Global 300 PPS, DVD-R, coax/RS485, SATA, USB, 30 day recording
DM/DVPE/12X60	12 channel video server, 2 audio, alarm, 1.5TB, Global 300 PPS, DVD-R, coax/RS485, SATA, USB, 60 day recording
16 CHANNEL	
DM/DVPE/16X14	16 channel video server, 2 audio, alarm, 500GB, Global 400 PPS, DVD-R, coax/RS485, SATA, USB, 14 day recording
DM/DVPE/16X30	16 channel video server, 2 audio, alarm, 1TB, Global 400 PPS, DVD-R, coax/RS485, SATA, USB, 30 day recording
DM/DVPE/16X60	16 channel video server, 2 audio, alarm, 2TB, Global 400 PPS, DVD-R, coax/RS485, SATA, USB, 60 day recording

MKT-DVEX-D-002E