DV-IP SERVER

PROFESSIONAL HIGH PERFORMANCE SCALABLE HYBRID DVR

Dedicated Micros DV-IP Server is a high performance DVR designed for professional surveillance applications.

The DV-IP server provides **Multi***Mode* recording in either JPEG or MPEG format from up to 16 analogue or IP cameras (including DM CamVu products).

It's intuitive graphical user interface makes the product easy to set up and use, minimising operator training. New User Interface Capabilities include:

- Color coded menu system

- Same local and remote user interface

- Timeline search facilities - simply use the mouse to click on the time that you want to view and the monitor will display the images instantaneously

- Camera Selection Maps - displays for selecting and controlling cameras

FEATURES

- 8, 12 and 16 camera models

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

- **Trans***Coding* provides low bit rate, remote replay viewing of high quality recorded images

- Compatible with external SATA storage devices

- Built in DVD-R writer and USB ports for archiving evidential material

- Local user operation with a selection of control options, including telemetry keyboard, USB mouse or remote control

- Streaming and Recording of IP Cameras and devices

- **Analytics***Capable* - enables analytics solutions to be deployed on your CCTV system

- Recording of high definition megapixel images

- Enhanced User features to greatly improve the operator experience

- Colour Coded Menus give a context sensitive menu structure for the user

- Common User Interface when accessed locally at the unit or remotely via a web browser

- Video Timeline allows the rapid search of captured video

- On screen graphical maps presented on the local monitors screen

- **Point&***Go* telemetry provides the user with easy to use, fast, accurate, on screen telemetry control via an attached monitor

- ePTZ on any attached camera

- Deep camera integration with Oracle dome

- BS8418 Compliant

NetVu CONNECTED

DEDICATED MICROS

DV-IP SERVER

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.

GUARANTEED 30 OR 60 DAY STORAGE
Consistent performance per camera guaranteed for up to 30 or 60 day storage.

EASILY SELECTABLE RECORDING
Easy to select record settings for 7, 14, 30 or 60 days recording (model variant dependent).

DEFAULT RECORDING SETTINGS
New "Normal, and Medium" models provide out of the box:
- High performance recording on ALL cameras with minimal configuration
- Consistent recording duration and smooth motion video per camera regardless of the number of cameras

Normal
- Continuous 5pps @ 2 CIF MPEG4 recording on all cameras, on all channel variants (default)**

Medium
- Continuous 2pps @ 2 CIF MPEG4 recording on all cameras, on all channel variants (default)**

COMPLETE FLEXIBILTY
If a target number of days recording is less than 30 or 60 days – the picture quality can be increased.
The advanced record menu can also be individually configured by the installer to suit specific requirements, so they still have the flexibility to set specific cameras to much higher record rates. E.g. Entry/Exit routes.

Various storage sizes are available dependant on the combination of the number of cameras, the 30 or 60 day storage options and the 'Normal, and Medium' setting selected.

RECORD RATE
Global record rates of up to 100pps (PAL), 120pps (NTSC).

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:
Full screen, picture in picture, quad viewing and multiscreen
Mon A: Composite video BNC connector.
Spot monitor: Full screen, sequence Mon B: Composite video BNC connector.

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.

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
- Zone response
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 exploiting timeline user interface
- 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

IP STREAMING & RECORDING
The DVR is capable of seamless recording & display of IP video streams from IP Cameras, IP domes, encoders and other NetVu Connected DVR's. Telemetry is also supported. Offering the ability to view and record IP Sources, irrespective of the devices' location, IP Streaming and Recording provides viewing and control across all connected analogue and IP Cameras, seamlessly displaying all through a connected monitor.

MEGAPIXEL IMAGE RECORDING
The DVR is able to record high definition megapixel camera images, displaying them in standard definition on an attached monitor. With the addition of ePTZ users are able to zoom into the detail of an attached megapixel camera with incredible clarity.

MANAGED STORAGE FOR CCTV

- Support of 2 DM Managed Storage expansion units 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 Server 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 Server has NetVu Connected technology built-in to ensure maximum compatibility with future developments in networked security. NetVu Connected technology enables the DV-IP Server to fully interoperate with other NetVu Connected compatible products from DM including the DVIP Decoder, NetVu ObserVer and PDA Viewers. Providing interoperability between the worlds leading security companies, NetVu Connected uses industry standard networking protocols supported by a wide range of third party integration products and SDKs to ensure on-going compatibility for the future.

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 Server includes a network bandwidth limitation option, which allows the bandwidth used by the DV-IP Server 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.

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 SOFT KEY OPERATION

The DV-IP Server is operated using our unique and intuitive colour coded soft key menus. This means that the user is logically guided through each function or operation simply, step by step. The five colour coded keys on the keyboard and remote control correspond with the five colour soft keys that appear on screen. So, which ever control device is preferred, operation of the product is consistent, reducing operator training and support.

EMBEDDED CONSOLE

New Embedded Console control means that you can connect, view and control upto 20 sites, comprising of upto 8 NetVu Connected DVRs or Servers and 99 cameras per site. Camera selection can be simplified by using bespoke camera selection maps.

Analytics*Capable*

Analytics*Capable* products can be upgraded to run a range of Dedicated Micros analytics solutions including; ANPR, Object Left, Object Counting, Object Removed and Intrusion Detection / Perimeter Protection.

Already enabled within the hardware of the DVR, only a software license upgrade on **Analytics***Capable* Digital Video Recorders is required. Please contact our Customer Services team for more information.
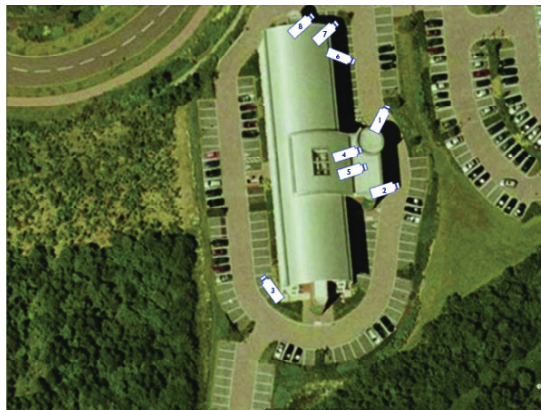
VIDEO TIMELINE

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 graphical maps 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 ePTZ 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 ePTZ 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.

SPECIFICATION

NETVU OBSERVER (SUPPLIED WITH THE PRODUCT)

NetVu ObserVer software features include:

- Full, picture in picture, quad, 6, 9, 16, 25 and 36 way viewing screens allows the user to flexibly display live or recorded images
- Drag and drop control of cameras onto the screen for live or replay viewing
- Multiscreen layouts in both 4:3 and 16:9 formats
- User interface provides control of all live and recorded functions including audio, telemetry, alarm receiving and event search
- Map Editor function allows creation & tailoring of maps to suit the customers application
- RVRC functionality for alarm receiving centres
- Export video to AVI
- Text display allows information from systems such as POS and ATM machines to be viewed, in association with captured video, via a dedicated window
- Audio challenge and eavesdrop
- **Multi***Mode* Recording support

See the latest NetVu ObserVer datasheet for more information.

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 2040, 2060 to Oracle
- Honeywell / VCL Orbiter & Jupiter Microspheres™
- GE CyberDome™
- BBV RS485 StarCard
- Bosch/Philips G3
- Pelco P, Pelco D, Pelco C
- 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 576v, NTSC: Max 704h x 480v

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)
SATA: 2 ports
Keyboard: 1 x RJ12

ENVIRONMENTAL

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

WARRANTY

3 years warranty including HDDs.

AVAILABILITY

The DV-IP Server is available now, directly from Dedicated Micros* – please contact Dedicated Micros Customer Service team for further information about how to become a DV-IP reseller.

*Subject to approval and minimum order quantity.
^ Available shortly after product launch
** To achieve record duration CIF resolution is used with the same record rate

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

DV-IP Server Range	
DM/DVP3/08N30	DV-IP Server 8 Channel, 5PPS PER CAMERA, 30 days, DVD, 250GB
DM/DVP3/08N60	DV-IP Server 8 Channel, 5PPS PER CAMERA, 60 days, DVD, 500GB
DM/DVP3/12N30	DV-IP Server 12 Channel, 5PPS PER CAMERA, 30 days, DVD, 500GB
DM/DVP3/12N60	DV-IP Server 12 Channel, 5PPS PER CAMERA, 60 days, DVD, 750GB
DM/DVP3/16M30	DV-IP Server 16 Channel, 2PPS PER CAMERA, 30 days, DVD, 320GB
DM/DVP3/16N30	DV-IP Server 16 Channel, 5PPS PER CAMERA, 30 days, DVD, 500GB
DM/DVP3/16N60	DV-IP Server 16 Channel, 5PPS PER CAMERA, 60 days, DVD, 1TB

MKT-SERV-D-005E