

## INTRODUCING THE NVR MEDIA SERVER

A dedicated network appliance offering cost effective High Definition network IP video.



With its ground breaking embedded network CCTV switch, the NVR Media Server provides a robust and sophisticated cost effective solution for IP video without the need for prior IP networking knowledge. As part of the AD Group's Network Video portfolio, the NVR Media Server facilitates ease of installation when utilised with the Dedicated Micros extensive range of IP cameras. All of this coupled with the inclusion of the Dedicated Micros USB digital keyboard, result in an industry leading IP solution which is both scalable and dependable.

This ground breaking solution is purpose built to fit within our next generation of video security known as 'Closed IPTV'. This facilitates a highly secure IP video solution utilising a new or existing infrastructure with the ease of plug and play.

The NVR Media Server allows the direct connection of 16 IP cameras but also has the scalability to be expanded to 32 cameras by utilising our Layer 3 Enhanced CCTV switch.

- High definition network video recording and display
- Connect 16 IP Cameras directly via built-in network switch
- Capable of recording HD realtime streams
- Allows installers to deploy a safe, secure and simple IP CCTV solution
- Part of the Closed IPTV suite of products
- Create Trusted Endpoints that protect your security system and corporate networks from unwanted intrusion
- Deterministic IP camera assignment to network port
- Transparent camera Configuration
- Cascade a Layer 3 Enhanced CCTV switch to create a larger, 32 camera, system
- Simple graphical User Interface
- USB ports for download of video archive to external storage device
- HDMI main monitor output (or composite)
- Audio In/Out
- MPEG4, MJPEG or H.264 record settings
- Supports our industry leading remote codec technology where the camera codec becomes an extension of the NVR

## SPECIFICATION

**HIGH DEFINITION DISPLAY**

With the inclusion of a local HDMI display output, the NVR Media Server is able to display live and recorded image streams from high definition and Megapixel IP cameras. (Also supports composite monitor).

**CONFIGURATION**

The NVR Media server can determine the capability of any connected camera and automatically assign appropriate default settings to the camera based on features such as resolution, telemetry, aspect ratio, lens configuration, alarms and audio.\*

With the NVR Media Server being part of our next generation IP CCTV solution 'Closed IPTV', it enables a very simple plug and play set up. Cameras are automatically allocated addresses and assigned network ports, ensuring an easy set up in a manner similar to the more conventional analogue solutions. This massively reduces the time needed to set up and configure, providing a unique proposition in the industry.

**SECURITY**

The NVR Media server is underpinned by the Closed IPTV technology developed by AD Group's Network Video arm. This encompasses a number of features to ensure security is at the forefront of the solution.

- Trusted Endpoints (a unique secret signature that is shared with the switch and the NVR) ensure any attempt to interfere with the Closed IPTV network will trigger an immediate security alert. \*
- Removing access to the corporate network via an exposed endpoint (e.g. a Camera)
- Restrict Multicast – No one network endpoint can gain access to video from any other cameras or endpoints on the network.
- Firewall settings – Prevents any endpoint from opening a connection to a TCP server on the network

**CAMERAS AND EXPANSION**

In built 16 port switch for direct connection of IP cameras are provided. Combining the NVR Media Server with the Layer 3 Enhanced CCTV Switch ensures an additional 16 IP cameras can be connected.

**LOCAL CONTROL**

Touch sensitive front panel to provide local control. The NVR Media Server is also bundled with the Dedicated Micros USB keyboard/joystick.

**AUDIO**

Line in: 1x IV pk-pk, RCA phono socket  
Line out: 1x IV pk-pk, RCA phono socket

**RECORDING**

Optimal Encode Capability: 25pps @ 4CIF Per Camera\* (Optimal performance is achieved when using the Remote Codec capability of NetVu Connected Cameras. In this mode the camera codec becomes an extension of the NVR and directly encodes the image stream. The NVR is then used to decode the images).

Two solutions provided by AD Group's Network Video arm are **MultiMode** and **TransCoding**.

**MultiMode RECORDING**

**MultiMode** recording ensures different record rates, resolutions (QCIF to 4CIF), and compression algorithms MPEG-4/JPEG/H.264) can be set dynamically on individual cameras and across the whole unit for both normal and alarm modes.

**TransCoding STREAMING**

**TransCoding** streaming allows multiple remote viewers to playback high quality recorded images at a streaming rate and compression format they require without affecting or degrading the original recording.

Also, activity detection can switch the selected camera from normal profile to alarm record profile.

**STORAGE AND EXPANSION**

The unit is supplied with up to 6TB of on-board storage. Additional storage can also be accommodated through external USB or, as part of a NetVu Connected platform there is provision for a fault tolerant solution through network storage in conjunction with In Camera Recording and AoE (ATA over Ethernet).

**REMOTE MANAGEMENT**

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

**EVIDENCE EXPORT**

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 or hard drive through a USB port.

**ALARMS AND RELAYS (INPUTS/OUTPUTS)**

5 Normally open/closed tamper proof alarm inputs. One global keyswitch can be assigned to operate from any of these inputs and is configurable with entry/ exit route timers. 2 relay outputs are configurable to trigger in response to events.

**TELEMETRY**

Supported IP Telemetry at time of writing includes DM-IP, AXIS-IP and JVC-IP : for an up to date list, consult your local AD Group representative

\*With NetVu connected cameras

## SPECIFICATION

**COMPRESSION & RESOLUTION**

Compression Format: MJPEG, MPEG-4, H.264  
 Supported Resolutions: QCIF, CIF, WCIF, 2CIF, 4CIF, VGA, W4CIF, SVGA, HD720, XGA, XGA+, SXGA, UXGA, HD1080, QUXGA

**DATA PORTS**

Serial Ports: 1x RS485, 1x RS232  
 Ethernet: 2x 100/1000 BASE-T,  
 1 public and one cascade or private video LAN  
 16x 10/100 BASE-T camera ports  
 USB: 3 x USB 2.0 Connector  
 Keyboard: 1 x RJ12 Connector  
 IR Remote: 1x IR sensor at front of unit

**WEIGHTS & MEASURES**

Dimensions: (HxWxD) 99 x 439 x 292mm  
 Weight: 4.9kg (10.8 lbs) excluding PSU

**DISPLAY OUTPUT**

720P

**TEMPERATURE RANGE**

6°C to 40°C

**POWER SUPPLY**

48V

**POWER OVER ETHERNET**

Ability to power cameras directly from the NVR Media Server's power source.

Allows power to be applied to the connected cameras without the need for additional cabling. Power is provided down the line to the camera on the same cable that is used for data transmission. IEEE 802.3-2008.

**WARRANTY**

2 Years warranty including HDDs

**APPLICATIONS:**

The NVR Media Server provides a scalable solution which can bring the benefits of HD IP video to environments where IT support costs for conventional IP video surveillance solutions are prohibitive.

Ranging from small retail sites to interconnected networks of CCTV, all can be accommodated utilising the NVR Media Server and the comprehensive IP product range offered by the AD Group's Network Video portfolio.

**THE SOLUTION:**

AD Group's Network Video arm specialises in providing the highest quality solutions for security surveillance. Combining our IP Cameras, NVRs and remote viewing solutions with network switches and controllers, we can provide solutions purpose built to meet any specific security requirements.

The NVR Media Server combined with our range of CamVu cameras (IP Cameras, Mini Domes and PTZs) and implementing our Layer 3 Enhanced CCTV switch to increase camera capacity, supplies the perfect IP solution for a number of practical applications.

**PRODUCT SUITE CONNECTIVITY:**

Schematic of interconnectivity with NVR Media Server at its core.



## PART CODES

Model Code	Description
DM/MSRV2T	NVR Media Server 16 Port 2TB HDMI includes USB Keyboard/Joystick
DM/MSRV2TP	NVR Media Server 16Port 2TB HDMI PoE includes USB Keyboard/Joystick
DM/MSRV2T/A	NVR Media Server 16Port 2TB HDMI includes USB Keyboard/Joystick (NTSC)
DM/MSRV2TP/A	NVR Media Server 16Port 2TB HDMI PoE includes USB Keyboard/Joystick (NTSC)
DM/MSRV2T/NK	NVR Media Server 16 Port 2TB HDMI
DM/MSRV2TP/NK	NVR Media Server 16 Port 2TB HDMI PoE
DM/MSRV2T/NK/A	NVR Media Server 16 Port 2TB HDMI (NTSC)
DM/MSRV2TP/NK/A	NVR Media Server 16 Port 2TB HDMI PoE (NTSC)
DM/MSRV3T	NVR Media Server 16 Port 3TB HDMI includes USB Keyboard/Joystick
DM/MSRV3TP	NVR Media Server 16Port 3TB HDMI PoE includes USB Keyboard/Joystick
DM/MSRV3T/A	NVR Media Server 16Port 3TB HDMI includes USB Keyboard/Joystick (NTSC)
DM/MSRV3TP/A	NVR Media Server 16Port 3TB HDMI PoE includes USB Keyboard/Joystick (NTSC)
DM/MSRV3T/NK	NVR Media Server 16 Port 3TB HDMI
DM/MSRV3TP/NK	NVR Media Server 16 Port 3TB HDMI PoE
DM/MSRV3T/NK/A	NVR Media Server 16 Port 3TB HDMI (NTSC)
DM/MSRV3TP/NK/A	NVR Media Server 16 Port 3TB HDMI PoE (NTSC)
DM/MSRV6T	NVR Media Server 16 Port 6TB HDMI includes USB Keyboard/Joystick
DM/MSRV6TP	NVR Media Server 16Port 6TB HDMI PoE includes USB Keyboard/Joystick
DM/MSRV6T/A	NVR Media Server 16Port 6TB HDMI includes USB Keyboard/Joystick (NTSC)
DM/MSRV6TP/A	NVR Media Server 16Port 6TB HDMI PoE includes USB Keyboard/Joystick (NTSC)
DM/MSRV6T/NK	NVR Media Server 16 Port 6TB HDMI
DM/MSRV6TP/NK	NVR Media Server 16 Port 6TB HDMI PoE
DM/MSRV6T/NK/A	NVR Media Server 16 Port 6TB HDMI (NTSC)



**network video**  
Seamless Intelligence

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