



# **SD ADVANCED NVR**



## **Introducing the SD Advanced NVR**

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

With its ground breaking embedded, high end, secure Closed IPTV switch, the SD Advanced NVR provides an out of the box ready robust and sophisticated IP surveillance solution. Cost effective for IP only video, the unit is preloaded and preconfigured to auto detect, auto configure and secure connected IP cameras all without the need for prior IP networking knowledge or licence requirements. The SD Advanced NVR facilitates ease of installation when utilised with the Dedicated Micros extensive range of SmartVu IP cameras. All of this result in an industry leading IP solution which is both scalable and dependable.

The SD Advanced NVR 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.

### **Features & Benefits**

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

## Applications

The SD Advanced NVR 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 SD Advanced NVR and the comprehensive IP product range offered by the Dedicated Micros portfolio.

## The Solution

Dedicated Micros 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.

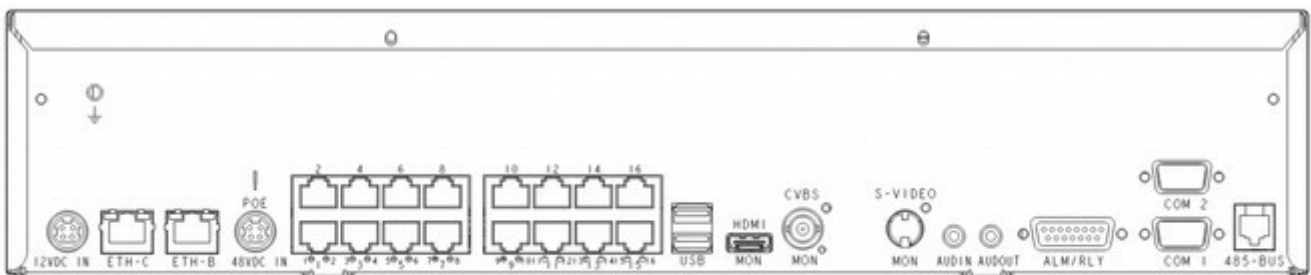
The SD Advanced NVR combined with our range of SmartVu cameras (IP Cameras, Mini Domes and PTZs) and implementing our Layer 3 Enhanced CCTV switch to increase camera capacity, supplies the perfect IP solution for a number of practical applications.

## Product Suite Connectivity

Schematic of interconnectivity with SD Advanced NVR at its core.



## Back Panel Drawing



## **Benefits Overview**

### **HIGH DEFINITION DISPLAY**

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

### **CONFIGURATION**

The SD Advanced NVR 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 SD Advanced NVR 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 SD Advanced NVR is underpinned by the Closed IPTV technology developed by Dedicated Micros. 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 SD Advanced NVR with the Layer 3 Enhanced CCTV Switch ensures an additional 16 IP cameras can be connected.

### **STORAGE AND EXPANSION**

The unit is supplied with up to 12TB 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.

### **DESKTOP OR RACK MOUNTABLE**

The units can operate as standalone DVR/NVR as a desktop unit or can be rack mounted using a dedicated fixing kit available with every unit

### **REMOTE CODEC**

Optimal Encode Capability performance is achieved 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.

This is the most efficient means of connection to a DM Closed IPTV server distributing the processing requirements allowing a greater number of cameras to be connected and managed from one unit as stream communication becomes more efficient, reducing potential bottlenecks.

### **MultiMode RECORDING AND STREAMING**

Allows an event trigger from VMD, analytics and alarms to effect an instantaneous change in bit rate and resolution. Full HD streams are generated when needed, e.g. for identification purposes, otherwise a standard definition stream saves up to 50% storage capacity.

### **TransCode STREAMING**

Record in high resolution; remote playback in lower resolution. No effect on original recording's quality. DM generates independent streams for remote playback. Remote devices can review footage at a faster update rate to quickly pinpoint the video of interest. High resolution can then be downloaded when convenient to do so.

### **CUSTOMISABLE**

PowerScripting enables user customisation of complex, logical. Alarm handling routines and integration of data from external sources. Extra value is created for the user through integration with business processes e.g. access control, building management, process control and manpower management. The result being a measurable return on investment tied in with operational process such as retail loss prevention

### **REAL TIME OPERATING SYSTEM**

All NetVu connected devices use an embedded Real Time Operating System (RTOS), being more efficient as designed for the purpose of video processing. DM achieves a greater number of video profiles than competitors. It is also more secure, as common attacks and viruses won't affect the RTOS. The RTOS isn't subject to inconvenient "Windows updates" suffered by other windows server based systems.

## Technical Specification

### **POWER OVER ETHERNET**

Ability to power cameras directly from the SD Advanced NVR'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.

### **EMERGENCY MESSAGING/VIDEO DISPLAY**

All NetVu connected systems are capable of becoming an emergency messaging system, through the leverage of the patented embedded emergency response features

The inherent capability to interpret external data instructions, and take logical action as a result, enables the Dedicated Micros products to be used in order to display information and promotional messages in retail and public scenarios

### **EVIDENCE EXPORT**

Event sequences and user defined recorded sequences can be saved to a CD or DVD on external DVD-writer via front panel high power USB port or to external flash memory or hard drive.

### **ALARMS AND RELAYS (Inputs/Outputs)**

5 Normally open/closed tamper proof alarm inputs. One global key switch 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.

### **DISPLAY OUTPUT**

1080

### **AUDIO**

Line in: 2x 1V pk-pk, RCA phono socket  
Line out: 2x 1V pk-pk, RCA phono socket

### **REMOTE MANAGEMENT**

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

### **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  
1 x SVideo connector  
IR Remote: 1x IR sensor at front of unit

### **COMPRESSION & RESOLUTION**

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

### **WEIGHTS & MEASURES**

Dimensions: (HxWxD) 89 x 440 x 445mm  
Weight: 11.4kg (25.1 lbs) including PSU

### **POWER SUPPLY**

48V

### **WARRANTY**

1 Years warranty plus additional 2 years upon registration

### **TEMPERATURE RANGE**

6°C to 40°C

## Ordering Information

Part Number	Description
DM/SDANVR/3T	SD Advanced NVR 16 Port 3TB PoE
DM/SDANVR/6T	SD Advanced NVR 16 Port 6TB PoE
DM/SDANVR/12T	SD Advanced NVR 16 Port 12TB PoE

## SmartVu IP Camera Information

Part Number	Description
DM/SV720SB/FR	SmartVu Small Bullet 720 30m IR AF
DM/SV1080SB/FR	SmartVu Small Bullet 1080 30m IR AF
DM/SV3000SB/FRW	SmartVu Small Bullet 3MP WDR 30m IR AF
DM/SV720MB/FR	SmartVu Medium Bullet 720 50m IR AF
DM/SV1080MB/FR	SmartVu Medium Bullet 1080 50m IR AF
DM/SV3000MB/FRW	SmartVu Medium Bullet 3MP WDR 50m IR AF
DM/SV720LB/FR	SmartVu Large Bullet 720 120m IR AF
DM/SV1080LB/FR	SmartVu Large Bullet 1080 120m IR AF
DM/SV3000LB/FRW	SmartVu Large Bullet 3MP WDR 120m IR AF
DM/SV720VD/FR	SmartVu Vandal Dome 720 25m IR AF
DM/SV1080VD/FR	SmartVu Vandal Dome 1080 25m IR AF
DM/SV3000VD/FRW	SmartVu Vandal Dome 3MP WDR 25m IR AF
DM/SV720BX	SmartVu Box Camera 720, No Lens
DM/SV1080BX	SmartVu Box Camera 1080, No Lens
DM/SV3000BX	SmartVu Box Camera 3MP, No Lens
DM/SV720MVR	SmartVu 720 Mini Vandal Dome (with IR)
DM/SV1080MVR	SmartVu 1080 Mini Vandal Dome (with IR)
DM/SV1080PTZ22	SmartVu 1080 PTZ (IR)



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