



SD *ADVANCED*

SD Advanced Hybrid DVR

A powerful hybrid DVR/NVR, the enhanced SD Advanced offers top of the line performance with easy of installation. Combining all the benefits of a DVR with the feature set of a high performance embedded NVR, it offers multiple channels of IP and Analogue. HDMI main monitor support and Digital Spot, on-board analytics and EPOS integration.

The enhanced SD Advanced offers flexibility and choice to suit challenging security applications, with its intuitive user interface and self configuring IP capabilities, out of the box ready and eases demands on installers and operators.



Features & Benefits

Powerful Hybrid DVR with embedded NVR

Up to 32 inputs in a combination of analogue or IP
Achieve playback, recording & live viewing simultaneously

Up to 12TB of local storage, expandable using MSU

Analytics Capable

Recording of 3rd party IP cameras and devices enables VMD and analytics

Text support - capture, text and embed till, ATM or analytics data with the video (EpoS)

Remote Codec capable – Camera encodes the image

MultiMode Recording – Dynamically-switchable resolution, record-rate & compression (MPEG4/ JPEG) per camera

External DVD writer via high power USB port for archiving evidential material

TransCoding - High quality recording and simultaneous video transmission using MPEG4, JPEG or H.264 for Playback.

Color-coded soft key menus, identical local and remote interfaces.

User customizable system map for multiple system management

Benefits Overview

Powerful Hybrid DVR/NVR

The SD Advanced is a true hybrid DVR/NVR. Offering up to 32 camera connections in a combination of analogue or IP (including 3rd party IP cameras). Models in the series offer 8, 16 or 32 analogue camera connections, with the balance of the 32 camera connections being made up by IP camera streams - even higher definition devices such as megapixel cameras.

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.

Closed IPTV

Dual IP camera addressing, ensuring segregation between the users' corporate network and IP cameras, reducing hacking risk. Firewalls automatically created in IP camera and/or server for enhanced network security purposes. Endpoint to endpoint isolation through port to port lock down feature on closed IP switch, preventing one camera being used as a host to attack other cameras to gain entry to network (Closed IP switch sold separately).

TransCode Streaming

TransCode 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.

IP Streaming & Recording

The DVR is capable of the seamless recording & display of IP video streams from IP Cameras, IP domes, encoders and other NetVu Connected Video Servers offering the ability to view and record IP Sources, irrespective of the devices' location. Connection of up to 16 3rd party IP cameras will incur a nominal license charge – Licenses for NetVu Connected cameras are free.

AnalyticsCapable

AnalyticsCapable 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 Configuration Of Cameras

With complete integration between the Oracle Dome, Infiniti/SmartVu cameras and the unit, users are able to configure the devices directly from the DVR. Removing the need for unnecessary site visits.

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

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

Hybrid Analogue & IP DVR/NVR Connectivity



Up to 32 standard definition analogue camera's including the Ice2 cameras when in standard definition mode connected directly to the unit

Connect Up to 32 IP SmartVu camera's via external Layer 3 enhanced Closed IPTV switch

Technical Specification

CAMERAS

8, 16 or 32 analogue input models. Auto detection on power up. Alarm on Camera Fail. 32 IP camera streams supported on all models of which 8/16/32 can be analogue (model dependant) with the remainder being made up of IP streams*/ ***,

RECORD RATES

720p IP

High: 720p RT
Medium W576p 1/2RT
Low: W228p 1/2RT
Very Low: W144 1/4 RT

1080p IP

High: 1080p 1/2RT
Medium W576p 1/2RT
Low: W228p 1/2RT
Very Low: W144 1/4 RT

Standard Resolution

High: 4CIF RT
Medium 2CIF RT
Low: CIF RT
Very Low: QCIF RT

RECODING

Demonstrating the power of the NetVu Connected architecture, the SD Advanced includes powerful Recoding capabilities that can decode, in real-time, any supported 3rd party IP camera stream, and re-compress to an alternative format/resolution/pps/data rate configuration. This enables functions such as MultiMode,

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.

STORAGE

Up to 12TB of on-board storage, additional storage available via eSATA port.

AUDIO

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

MONITOR VIEWING

Main Monitor: Composite or HDMI Output
Spot monitor: 1x Composite Output.

REMOTE VIEWER

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

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.

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.

REMOTE CAMERA CONFIGURATION

Configure Oracle Domes, Infiniti cameras, CamVu and SmartVu devices through the units configuration pages

VIDEO MOTION DETECTION

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

ALARMS AND RELAYS

20 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. 4 relay outputs are configurable to trigger in response to events.

COMPRESSION

JPEG or MPEG-4 format files.

LOCAL CONTROL

Front panel keypad an attached telemetry keyboard, the supplied IR remote, USB mouse or USB QWERTY Keyboard.

EVENT COPYING

External DVD writer via high power USB Port.
Event Copying or Selective Archiving of video.

ACTIVITY DETECTION

Activity detection will switch the selected camera from normal record profile to alarm record profile on events such as video motion detection.

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

Built-in RS485/Twisted pair and Coax protocols including but not limited to the following: Dedicated Micros 2040, 2060, Oracle, Pelco P/D/C, Honeywell / VCL Orbiter & Jupiter Microspheres™, 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

Front panel keypad an attached telemetry keyboard, the supplied IR remote, USB mouse or USB QWERTY Keyboard.

DATA PORTS

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

NETWORK PROTOCOLS

DCCP, DHCP, HTTP, HTTPS, IPv4, SMTP, Bonjour, ICMP, DNS, NTP, TCP, UDP, ICMP, DHCP, ARP, RTP, Telnet, FTP, AoE, SNMP, ZeroConf.

WEIGHTS & MEASURES

Dimensions: 89mm (H) x 440mm (W) x 445mm (D)
Weight: 11.4 kg (25.1 lbs) with built-in PSU

POWER SUPPLY

250W Internal Power Supply

TEMPERATURE RANGE

Relative humidity: 10% - 85% Non-condensing

WARRANTY

1 year warranty plus additional 2 years upon registration

Ordering Information

Part Number	Description
DM/SDACP08/3T	SD Advanced 8Ch Hybrid DVR Closed IP 3TB
DM/SDACP16/3T	SD Advanced 16Ch Hybrid DVR Closed IP 6TB
DM/SDACP32/3T	SD Advanced 32Ch Hybrid DVR Closed IP 3TB
DM/SDACP32/6T	SD Advanced 32Ch Hybrid DVR Closed IP 6TB
DM/SDACP32/12T	SD Advanced 32Ch Hybrid DVR Closed IP 12TB
DM/KBC2/USB	USB Joystick keyboard for SD Advanced Products

Analogue/IP Camera Information

Part Number	Description
SmartVu IP Auto	
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)
Ice2 HD Analogue	
DM/ICE2720MW/R	Ice2 720 HD Analogue Mini Wedge 10m IR
DM/ICE2720MD/R	Ice2 720 HD Analogue Mini Dome 10m IR
DM/ICE2720SB/R	Ice2 720 HD Analogue Small Bullet 30m IR
DM/ICE2720MB/R	Ice2 HD Analogue Medium Bullet 50m IR
DM/ICE2720BOX	Ice2 720 HD Analogue Box Camera

* Above the stated 'analogue' camera connections per model (8/16/32). Connected IP cameras must be NetVu Connected utilising Remote Codec. ** Turbo Mode is achievable in MPEG4. See website for full performance parameters. To fully realise the benefits of the SD Advanced please ensure it is operating the latest software release. Available from the Dedicated Micros website.

*** 8 channel SD Advanced will support up to 32 IP cameras, albeit with a performance limitation with regard to the display of real time images. 16 channel SD Advanced supports 32 IP cameras without a limitation to the display.



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