DEDICATED MICROS

Datasheet

SD ADVANCED

SD Advanced Hybrid DVR/NVR

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

>1 x HDMI Main monitor output for high definition display

>HD IP Camera Recording

>Up to 12TB of local storage, expandable using MSU

>**Analytics**Capable

>Recoding of 3rd party IP cameras and devices enables VMD and analytics

>On-screen camera positioning telemetry control with Point&Go and Absolute Positioning

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

>Coaxial Serial and IP Telemetry Control

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

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

>**Trans**Coding - 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

>Per camera Polymorphic streams change resolution, bit rate and compression mid stream

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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.

Analytics*Capable*
Analytics*Capable* products can be upgraded to run a range of Dedicated Micros analytics components. 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
Power*Scripting* 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 eSATAport.

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

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.

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.

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, UPP, 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

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Ordering Information

Part Number	Description
SDA/08/3T	SD Advanced 8Ch Hybrid DVR Closed IP 3TB
SDA/16/3T	SD Advanced 16Ch Hybrid DVR Closed IP 3TB
SDA/16/6T	SD Advanced 16Ch Hybrid DVR Closed IP 6TB
SDA/32/3T	SD Advanced 32Ch Hybrid DVR Closed IP 3TB
SDA/32/6T	SD Advanced 32Ch Hybrid DVR Closed IP 6TB
SDA/32/12T	SD Advanced 32Ch Hybrid DVR Closed IP 12TB
KBC2/U	USB Joystick keyboard for SD Advanced Products

* 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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