

# DATASHEET



A powerful hybrid DVR/NVR, the SD Advanced combines all the benefits of a DVR with the feature set of a high performance embedded NVR and offers multiple channels of IP and Analogue video, HDMI main monitor support, on-board analytics, help videos and Oracle Dome configuration.

## 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.

## PERFORMANCE BOOST WITH TURBO MODE

The latest generation SD Advanced includes powerful new codecs and the Turbo Mode feature that ensures maximum per camera performance. Enabling Turbo Mode can effectively double the units performance allowing real-time recording at double the resolution simply with the press of a button..

## REAL-TIME RECORDING PER CAMERA

All SD Advanced models can connect to up to 32 cameras - offering a blend of analogue and IP connections. Each camera can offer real-time viewing, recording and playback simultaneously.

## 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 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 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, Infinity Camera and the unit, users are able to configure the PTZ device directly from the DVR. Removing the need for unnecessary site visits.

## FEATURES

- Powerful Hybrid DVR with embedded NVR
- Up to 32 inputs in a combination of analogue or IP
- Real-time recording per camera
- Achieve playback, recording & live viewing simultaneously
- HDMI Main monitor output for high definition display
- HD IP Camera Recording
- Double the products performance with Turbo Mode
- Up to 4TB of local storage, expandable using MSU
- **Analytics Capable**
- Recording of 3rd party IP cameras and devices enables VMD and analytics
- On-screen telemetry control with Point&Go and Absolute Positioning
- On-board Help Videos
- Text support - capture, text and embed till, ATM or analytics data with the video
- Coaxial Serial and IP Telemetry Control
- **MultiMode** Recording – Dynamically-switchable resolution, record-rate & compression (MPEG4/ JPEG/H.264) per camera
- Built in DVD-R writer and USB ports 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
- Per camera Polymorphic streams change resolution, bit rate and compression mid stream
- Embedded Operating System



# 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\*.

## RECORDING

8 Channel Unit: 200pps @ 2CIF / 100pps @ 4CIF  
16 Channel Unit: 400pps @ 2CIF / 200pps @ 4CIF  
32 Channel Unit: 800pps @ 2CIF / 400pps @ 4CIF  
Real-time per camera @ 2CIF, 12.5pps per camera @ 4CIF  
irrespective of analogue or IP source. The maximum performance parameters shown here are achievable when Turbo Mode is enabled.\*\*

## RECODING

Demonstrating the power of the NetVu Connected architecture, the new SD Advanced includes powerful Recoding capabilities that can decode, in real-time, any supported 3rd party IP camera stream, and recompress 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 4TB of on-board storage, additional storage available via eSATA port.

## MONITORVIEWING

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

## REMOTEVIEWER

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

## MULTIMODE RECORDING

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

## REMOTE CAMERA CONFIGURATION

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

## VIDEO MOTION DETECTION

Programmable VMD grid with individually definable zones per camera. User-definable 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.

## ALARM ZONES

Alarm zones combine multiple alarm inputs to generate alarm events. This can help to minimise false triggers. e.g. you can set an alarm to be triggered by a combination of a PIR and Camera VMD to remove miss-triggers from either source.

## AUDIO

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

## EVENT COPYING

Integrated DVD-writer and USB ports. Event Copying or Selective Archiving of video.

## ACTIVITY DETECTION

Activity detection will switch the selected camera from normal record profile to alarm record profile.

## HELP VIDEOS

The SD Advanced includes on board help videos for assistance on both User and Configuration features. Accessible from both the local and remote viewer the help videos cover all major operation and configuration topics include: Basic Live and Playback control, telemetry control, alarm configuration, event reviewing and archiving.

## 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.

## COMPRESSION

JPEG, MPEG-4 and H.264 format files.

## DATA PORTS

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

## WEIGHTS & MEASURES

Dimensions: 89mm (H) x 440mm (W) x 537mm (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

3 years warranty including HDDs.

Model Code	Description
SDAV08MIN	8 channel analogue/IP, DVR/NVR, 200 pps, 1TB, HDMI
SDAV16MIN	16 channel analogue/IP, DVR/NVR, 400 pps 1TB, HDMI
SDAV16MAX	16 channel analogue/IP, DVR/NVR, 400 pps 4TB, HDMI
SDAV32MIN	32 channel analogue/IP, DVR/NVR, 400 pps 1TB, HDMI
SDAV32MAX	32 channel analogue/IP, DVR/NVR, 400 pps 4TB, HDMI

\* 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.

To find your nearest Dedicated Micros office, please visit

[www.dedicatedmicros.com](http://www.dedicatedmicros.com)

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