



PREMIUM ENTERPRISE HYBRID DVR/NVR

The flagship product in the SD Series, the SD Excel offers real-time, 4CIF/DI recording per camera in a powerful hybrid DVR/NVR package that 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 Excel is a true hybrid DVR/NVR. Offering up to 32 camera connections in a combination of analogue or IP (including 3rd party IP cameras***). Up to 16 analogue cameras can be connected, with the balance of the 32 camera connections being made up by IP camera streams - even HD cameras.

REAL-TIME, 4CIF/DI RECORDING PER CAMERA

Offering a blend of analogue and IP connections. Each camera can offer 4CIF/DI, real-time viewing, recording and playback simultaneously.*

PERFORMANCE BOOST WITH TURBO MODE

The SD Excel 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.

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

- Premium Enterprise Hybrid DVR/NVR
- Real-time, 4CIF/DI recording per camera
- Up to 32 inputs in a combination of analogue or IP*
- Achieve playback recording, live viewing, streaming & archiving simultaneously
- HDMI Main monitor output for high definition display
- HD IP Camera Recording
- Double the products performance with Turbo Mode
- 4TB of local storage, expandable using MSUs
- 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
- Coaxial & Serial and IP Telemetry Control
- Text support - capture text and embed till, ATM or analytics data with video to enable fast search of events from Retail, Banking or Access control systems
- 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

16 analogue inputs. Auto detection on power up. Alarm on Camera Fail. 32 IP camera streams supported on all models of which 16 can be analogue with the remainder being made up of IP streams.*

RECORDING

Analogue Connections: 400pps @ 4CIF/D1

Hybrid Connections: Real-time per camera @ 4CIF/D1 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 Excel includes powerful Recoding capabilities that can decode, in real-time, any supported 3rd party IP camera stream*** and convert to a raw video image. This enables functions such as 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

4TB of on-board storage, additional storage available via eSATA port.

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

Set different record rates, resolutions (QCIF to 4CIF/D1), 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 products directly through the menu interface and web pages of the DVR.

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 Excel 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.

DATA PORTS

Serial Ports: 2x RS485, 2x RS232

Ethernet: 1x Ethernet RJ-45 10/100 Ethernet connection.

USB: 3 x USB 2.0 Connector (1 front, 2 rear)

eSATA: 1x eSATA port

Keyboard: 1 x RJ12

NETWORK PROTOCOLS

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

IR Remote: 1x IR sensor at front of unit, IR Jack at rear

COMPRESSION

JPEG, MPEG-4 & H.264 format files

WEIGHTS & MEASURES

Dimensions: 89mm (H) x 440mm (W) x 445mm (D)

Weight: 11.4 kg (25.1 lbs) with built-in PSU

POWER SUPPLY

Power Supply: 250W Internal Power Supply

TEMPERATURE RANGE

Relative Humidity: 10% - 85% Non-condensing

WARRANTY

Warranty: 3 Years warranty including HDDs

Model Code	Description
DM/SDX16MAX	Enterprise Class NVR/DVR, 16Ch Analogue/IP, 400pps 4CIF, 4TB, HDMI, USB
DM/KBC1	Touch keyboard for SD Excel
DM/KBC2	Joystick keyboard for SD Excel

* Above the stated 'analogue' camera connections, connected IP cameras must be NetVu Connected utilising Remote Codec. Maximum input bandwidth (network) is 32 Mbits/s

** Turbo Mode is achievable in MPEG4. See website for full performance parameters

*** Connection of 3rd party IP cameras will incur a one-time nominal license charge – Licenses for NetVu Connected cameras are free

To fully realise the benefits of the SD Excel 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

Head Office: Dedicated Micros UK, 1200 Daresbury Park, Daresbury, Warrington, WA4 4HS Tel: +44 (0) 845 600 9500 Fax: +44 (0) 845 600 9504 Email: customerservices@dmicros.com

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