



Ultra Hybrid DVR

Ultra Pro 8/16/ 24/ 32/ 48
Ultra Enterprise 4/8/16/24/32/48



***H.264 Hardware Compression PC-based DVR
Up to 48 Cameras Real Time View and Record
Up to 4 Programmable Monitors***



AVS / Uriel Systems Overview

AVS has been a manufacturing leader in the CCTV market since its inception in 1994. AVS has experienced substantial growth due to its development of high-quality products that use latest technology available. AVS has dedicated its efforts over the last decade to provide surveillance systems to all levels of security professionals.

DVR Technology Trends

DVRs (digital video recorders) replaced the VCRs in security applications several years ago. Since the invention of the DVR, it has grown in popularity, ease of use, and features. Compression is a key ingredient in DVR evolution; compression factors into data size and picture quality. AVS has developed all its items with the latest H.264 compression that is the same compression that Blu-Ray players take advantage of. Data size is important in issues dealing with storage and internet speeds. DVRs have changed a lot and the list of features continue to grow, and AVS stays in the forefront by integrating the latest technology into its products.

AVS Ultra DVR

AVS Ultra Hybrid DVR is a high-end next generation of PC-based systems using H.264 Hardware compression, which is the latest and best compression codec available. This "hardware compression technology" allows the system to use less CPU usage by having the actual capture cards handle the burden of producing as opposed to software handling it as in most cases of MPEG4 PC DVRs using software compression. Using this technology allows the DVR to be expandable to 48ch 30/30 fps per channel.

The Ultra Hybrid DVR also has the best picture quality available by using the latest technology, and solves tearing and interlace issues that plague MPEG4 DVRs during movements in playback. The Ultra DVR has the ability to sync-up video and audio together so there is no delay in timing issue that most DVRs experience. The Ultra DVR with these features and continual improvements stand out in a class by itself.

Warranty and Customer Support

AVS stands by all its products and offers superior customer support to all installers involved. AVS takes pride in supporting and servicing new and old items to help ensure durability and stability. AVS DVRs are built to last for years to come.



Education



Retail



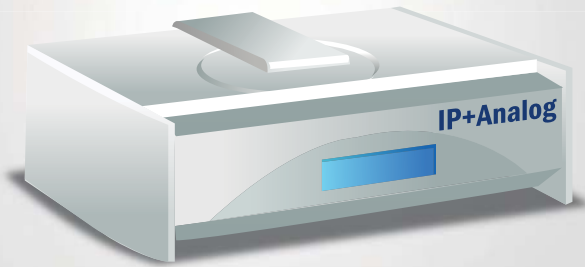
Banking



Restaurants



Hospitals



Hybrid DVR; Analog with IP cameras

AVS Ultra Hybrid can be the perfect bridge between analog and IP security. You can use traditional analog BNC out cameras along with the latest IP cameras.

Common Features of ULTRA Hybrid ENT & PRO

Hardware H.264 Dual Stream Video Compression

AVS Ultra Hybrid DVRs use H.264 hardware codec to reduce CPU burden and provide more solid video and audio recording capability. It also supports network dual stream to avoid congested network bandwidth issues to have smooth video transmission.

Expandability up to 48 Cameras

AVS Ultra Hybrid Enterprise and Professional support up to 48 channels of analog audio and video and 16 channels of IP video in a single machine. Due to hardware codec capture cards, it guarantees stable video and audio capture with real time recording and viewing on every channel.

High Resolution Monitor Support

AVS Ultra Hybrid supports the newest high resolution VGA and DVI monitors up to 1920x1080. These high resolution monitors improve visibility for multi-channel video when viewing more than 16 cameras on a screen. This full high resolution support cannot be achieved from a contemporary standalone DVR.

Live View/Record on every channel

AVS Ultra Hybrid Enterprise ensures all channels support real time recording at 2CIF, and AVS Ultra Hybrid Pro offers all channel real time recording at 1CIF.

iPhone and Blackberry Support

AVS Ultra Hybrid supports iPhone and Blackberry without charge. You can monitor your cameras on the go.

Up to 4 Monitors Support on DVR and Client side

AVS Ultra Hybrid support dual and quad monitors on the DVR and the client side. Up to 4 monitors can be installed on the DVR or the Client. Each additional monitor can show up to 16 cameras as it you program.





Large amount of Hard Drives Support w/ Hot Swappable RAID options

Secure your video and audio data with a hot swappable RAID system. Even though one or two of hard drives go bad, data will remain with RAID a system. Supports RAID 0, 1, 5, and 10, etc. Whatever you need, AVS has the solution.

Common Features of ULTRA Hybrid ENT & PRO

Virtual Matrix support: Up to 384 Cameras (TV Client)

AVS Ultra Hybrid supports a virtual matrix (TV Client). Each TV Client can have 4 VGA, DVI, or HDMI outputs and 6 TV Clients can be connected at the same time. Each monitor out can have 16 programmable video channel displayed at once. With 24 monitors, it can display 384 cameras with the TV Client.



I/O board for Alarm In / Out

Optional sensor-in and alarm-out provide more flexible system integration. Sensor-in can trigger alarm-out, start video and audio recording, activate PTZ camera, email notification, etc.



Dedicated Surveillance DVR Keyboard

AVS Ultra DVR Keyboard can control live viewing and PTZ cameras on DVR server and client. It is a perfect solution for those who want to limit a security guard's accessibility to the DVR.



POS (Point of Sales) Integration

AVS Ultra Hybrid offers an affordable POS integration solution. It supports most of POS cash registers available on the market.



Perfect audio sync

AVS is proud of the perfect video and audio sync of the Ultra Hybrid. Many of our customers are extremely satisfied with the audio quality and the perfect sync between video and audio.



Windows 7 Support (32 & 64 Bit)

AVS Ultra Hybrid supports new Windows7 32bit and 64bit.



Windows 7

Difference of Ultra Enterprise and Pro

The major difference between Ent and Pro is recording frames and dual stream function. Even though both of DVRs can capture 30 fps at 352 x 240 (1CIF) per channel, Ent can achieve 30 fps recording at 704 x 240 (2CIF) per channel, comparing Pro can record 15 fps at 704 x 240 per channel. Also, Ent can utilize the network dual stream function from 704 x 240 recording resolution, while the Pro can utilize network dual stream from 352 x 240 recording resolution.

ULTRA PRO 8/ 16/ 24/ 32 CH

Local Viewing						
Camera Inputs	8	16	24	32	48	
Display	VGA or DVI					
High Resolution Monitor	Yes (1280x1024, 1440x900, 1680x1050, 1920x1080)					
Multi Monitor Support	Yes Upto 4 Monitor					
Programmable Spot Out	Yes (Upto 3 VGA or DVI monitors with upto 16 screen split view)					
Screen Split	Up to 64 channel Split for main monitor, Up to 16 channel for extended monitor					
Viewing Frame Rate	30 FPS per Camera for Main Monitor					
Total Viewing Frame Rate	240	480	720	960	1440	
Resolution	704 x 480 per Camera					
Local Recording & Searching						
Screen Split	Upto 64ch					
Recording Frame Rate	352 x 240	240	480	720	960	1440
	704 x 240	120	240	360	480	720
	704 x 480	60	120	180	240	360
Recording Compression	Vide: Hardware H.264, Audio: Oggvorbis 16Kbps					
Audio Input	8	16	24	32	48	
Dual Stream	Yes (can be used when recording resolution is chosen at 704 x 240 or lower)					
Recording Mode	Continuous, Schedule, Motion Detection, Alarm and Sensor Triggered					
Smart Search	Yes					
Multiple Camera Playback	Yes (Upto 16 channels)					
Digital Zoom	Yes					
Backup	Direct CD or DVD Burn, USB Flash Drive, USB external Hard Drive					
Watermark	AES/MD5 (Court Admissible)					
Time Stamp	Image Embedded with date & time					
IP Hybrid Support	Yes (with AVS MPiX13 and many other brands)					
Dedicated DVR Keyboard	Yes					
POS Integration	Yes					
PTZ Control	Yes (Multiple protocol support)					
Alarm I / O Support	Yes (with 8 or 16 ch alarm box)					
PDA Support	Yes (Iphone & Blackberry)					
Virtual Keyboard Support	Yes					
Electronic Map	Yes					
Automatic Overwrite	Yes					
Password Protection	Multiple levels of password protection by user, group, camera or feature					
Web DVR with Internet Explorer	Yes					
Dedicated Remote Software	Yes					
System Log	abnormal shutdown, camera setup changes, program startup and shutdown					
System						
Operating System	Windows Operating system: XP, Vista, 7					
RAID Support	Yes					
Case	Desktop, 4U Rack					
Remote Viewing & Searching						
Camera Viewing	Upto 64ch					
Remote Searching	Upto 16ch					
Multiple Monitor Support	Yes (Upto 4 Monitor per PC and 6 Virtual Matrix PC), Max 24 Monitors with 16 Screen Split view)					
High Resolution Monitor	Yes (1280x1024, 1440x900, 1680x1050, 1920x1080)					

Local Viewing						
Camera Inputs	4	8	16	24	32	48
Display	VGA or DVI					
High Resolution Monitor	Yes (1280x1024, 1440x900, 1680x1050, 1920x1080)					
Multi Monitor Support	Yes Upto 4 Monitor					
Programmable Spot Out	Yes (Upto 3 VGA or DVI monitors with upto 16 screen split view)					
Screen Split	Up to 64 channel Split for main monitor, Up to 16 channel for extended monitor					
Viewing Frame Rate	30 FPS per Camera for Main Monitor					
Total Viewing Frame Rate	120	240	480	720	960	1440
Resolution	704 x 480 per Camera					

Local Recording & Searching							
Screen Split	Upto 64ch						
Recording Frame Rate	352 x 240	120	240	480	720	960	1440
	704 x 240	120	240	480	720	960	1440
	704 x 480	60	120	240	360	480	720
Recording Compression	Vide: Hardware H.264, Audio: Oggvorbis 16Kbps						
Audio Input	4	8	16	24	32	48	
Dual Stream	Yes (can be used when recording resolution is chosen at 352 x 240 or lower)						
Recording Mode	Continious, Schedule, Motion Detection, Alarm and Sensor Triggered						
Smart Search	Yes						
Multiple Camera Playback	Yes (Upto 16 channels)						
Digital Zoom	Yes						
Backup	Direct CD or DVD Burn, USB Flash Drive, USB external Hard Drive						
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System	
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RAID Support	Yes
Case	Desktop, 4U Rack

Remote Viewing & Searching	
Camera Viewing	Upto 64ch
Remote Searching	Upto 16ch
Multiple Monitor Support	Yes (Upto 4 Monitor per PC and 6 Virtual Matrix PC), Max 24 Monitors with 16 Screen Split view)
High Resolution Monitor	Yes (1280x1024, 1440x900, 1680x1050, 1920x1080)