

ADTVR-VS3

Embedded Video Recorder



Features That Make a Difference:

- Small compact chassis design
- 4 video channels looping (NTSC/PAL) with 4 channels of audio
- H.264 video compression with real-time recording option
- Simultaneous playback - up to 4 cameras
- Email alarm images on event
- Dual main and sub stream remote live view connections, ideal for mobile apps
- ADTVR Go iPhone, iPad, Android mobile app available as free downloads
- Remote client software with mapping
- Web browser interface using Internet Explorer
- Fully compatible with Central Station remote monitoring software
- Lock and unlock option to secure critical video events
- Local or remote PTZ control, multiple dome protocols available
- IR remote control with mouse (included)
- Supports Point-of-Sale (PoS) text integration
- Dual SMTP email server support for increased reliability

Reliable Digital Video Recorders

The ADTVR series of recorders offers three different models that provide high-quality performance in a DVR and offer a model ideal for any business.

Today's DVR users demand better performance and more features from their DVR system. ADTVR-VS3 delivers high-quality recording, long storage times, remote access, and alarm reporting with professional remote monitoring, also known as Central Station monitoring.

Local and Remote Operation

Whether you use the front panel controls or prefer to use a mouse, the recorder's user interface allows full control from the front of the recorder. Remote operation and administration of the ADTVR-VS3 is easy using Internet Explorer. You can also install the included Remote Client software to view cameras from more than one VS3 device on the same screen. Maintain and monitor up to 256 units from a single client workstation.

Central Station Monitoring

The power of the VS3 is enhanced when used with professional remote monitoring. In addition, the VS3 is ready to use and compatible with both Mastermind and SureView (Immix) software platforms.

Security Management

You can set specific privileges and permissions for each person using definable user profiles: top-level administration and low-level guest profiles are provided. Permissions for individual actions can be easily defined at a detailed level, such as which cameras can be remotely viewed, replayed, or exported.

Detailed logging with powerful query options include recording of system activity, software operation, alarm, and remote device operation.

Privacy Masks

In today's crowded world, privacy masking is an essential feature. The VS3 offers up to four privacy masks per camera input, to prevent accidental viewing of sensitive material such as someone typing their code at an ATM or viewing private meetings through a conference room window.

Alarms

The VS3 offers multi-zone motion detection for each camera input as well as hard-wired alarm inputs and outputs. In response to an alarm, the ADTVR-VS3 can send a camera to a pre-set position, pop-up the live preview image and send an email attaching a sequence of snapshots from the alarm.

Advanced, Embedded Technology

The VS3 is an embedded DVR, making it very reliable. Applications are contained (embedded) in the software, specifically manufactured to work as a DVR. The advantages of an embedded DVR includes reliability and stability, since there are no parts, making for a stable software platform. The VS3 offers the latest in technologies such as H.264 compression, a Linux kernel OS and DSP chipset.

The VS3 can easily be added to an existing TCP/IP network as DHCP, DNS, DDNS and NTP are fully supported. Built-in PPPoE capability allows the ADTVR-VS3 to directly connect to a broadband line as an alternative.

Features in depth



Color Coded Icons

The ADTVR-VS3 interface is extremely intuitive. Using simple color-coded icons, the various options are easy to program and operate.



Professional Monitoring

Every ADTVR-VS3 digital video recorder is compatible with both the Mastermind and SureView Immix software platforms.



Instant Playback

Instant playback allows you to promptly select and view recently recorded video footage. Rapid access to recorded video for selected cameras allows you to quickly assess critical events. By removing layers of menus, you can be more proactive in responding to incidents.



iPhone, iPad, and Android Mobile Apps

Utilize the ADTVR Go mobile app to view live cameras across multiple ADTVR series devices, bookmark popular 2x2 multi-camera layouts, save image snapshots, and control PTZ cameras. In addition, send email alerts on alarm with the option to include JPEG snapshots, directly to any email-enabled Smartphone device.

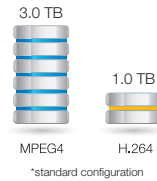


Work Remotely

The web browser interface allows a remote connection to the ADTVR-VS3 providing control of key functions such as Live Preview, Search & Playback, Archiving, PTZ Control, Two-way Audio, Configuration, Event Log function, and User Management.

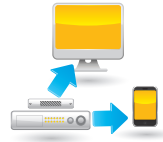
Full administrators are able to flash firmware and re-boot using a remote connection.

Amount of video stored over 30 days*



H.264 Video Compression

The ADTVR series of digital video recorders utilize the efficient H.264 video compression technology to reduce network bandwidth requirements and storage costs, as compared to the traditional MJPEG and MPEG-4 video standards.



Advanced Dual Stream Technology

Dual Stream technology is used to record high-resolution video locally. The VS3 can transmit sub stream resolution over a network, while using less bandwidth.

Sub stream provides high-quality viewing from remote, web and mobile client devices. This is commonly utilized in retail and small business applications with limited network bandwidth.



Genuine Pentaplex

The ADTVR-VS3 digital video recorder operates five key functions simultaneously without affecting the frame rate:

- Recording
- Playback of up to four channels simultaneously
- Live viewing
- Archiving
- Network-based operations



Remote Client Software

Every American Dynamics ADTVR-VS3 is compatible with our free central monitoring Remote Client software. Perfect for multi-site operations, Remote Client software allows users to connect, view and operate up to 64 cameras simultaneously, creating a central station capable of monitoring up to 256 units from one computer.



Lock and Unlock Critical Footage

Video relating to specific events can be locked and unlocked allowing critical events to be retained.

Features in depth



Quickly Select Video Clips for Export

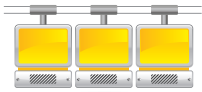
Within the instant playback function, a user can easily select the segment of video pertaining to the critical event for export during playback. By removing layers of menus, ease of use is improved.



Real-time Recording

ADTVR-VS3 can record 30ips (NTSC) at 2CIF resolution across all channels, or 12ips at full 4CIF resolution across all channels.

Channel recording parameters can be programmed individually to achieve a balance between the quality of footage, internal storage available, and the number of channels in use at any one time.



Archiving

Video footage can be archived to a USB flash drive, external HDD, or a PC through Remote Client or web browser. Use the ADTVR Go mobile app to access live video and save still images to your iPhone, iPad or Android phone.



Extensive Monitor Support

Main monitor output is available as either BNC or VGA (XGA, 1024 x 768) on all ADTVR-VS3 models. Simultaneously view Main VGA, Multi-Camera CVBS1 (2x2), and Alarm Spot CVBS2 (1x1) video outputs.



DVR System Health Check

ADTVR-VS3 has the ability to self monitor and raises alarms when hard drives are nearly full or an error is detected. It also checks for network cable connections, IP address conflicts, and signals any illegal login attempts. A user can be notified of any alarm through email.



Activity Log Preview

An itemized activity log providing a chronological list of events allows you to quickly view recorded events in a preview window. A robust query tool helps save time when scrolling through transactions.



Seamless PTZ Camera Integration

ADTVR-VS3 is compatible with multiple telemetry protocols including AD RS-422, Pelco D and Pelco P. From the Remote Client software, you can easily control PTZ cameras using a DirectX compatible USB joystick.



Point of Sale Interface

The ADTVR-VS3 supports a text interface enabling the recorder to be connected to Point-of-Sale (PoS) devices. This enables the recording, playback and viewing of up to 4 PoS devices from a single ADTVR-VS3 unit. Users can set-up alarms for specific text associations, or use advanced 3rd party data mining software to minimize internal theft.

Five ways to configure and manage VS3



Front Panel Controls

Icon driven menus are clearly laid out and easy to navigate from the front panel.



USB Mouse

A USB mouse connected to ADTVR-VS3 allows very fast and simple navigation through the on-screen display.



Upload from USB Drive

ADTVR-VS3 system configuration parameters can be saved to a USB drive for backup, or uploaded to other units that require identical settings.



Remote connection

ADTVR-VS3 can be configured and managed remotely using a LAN/WAN link.



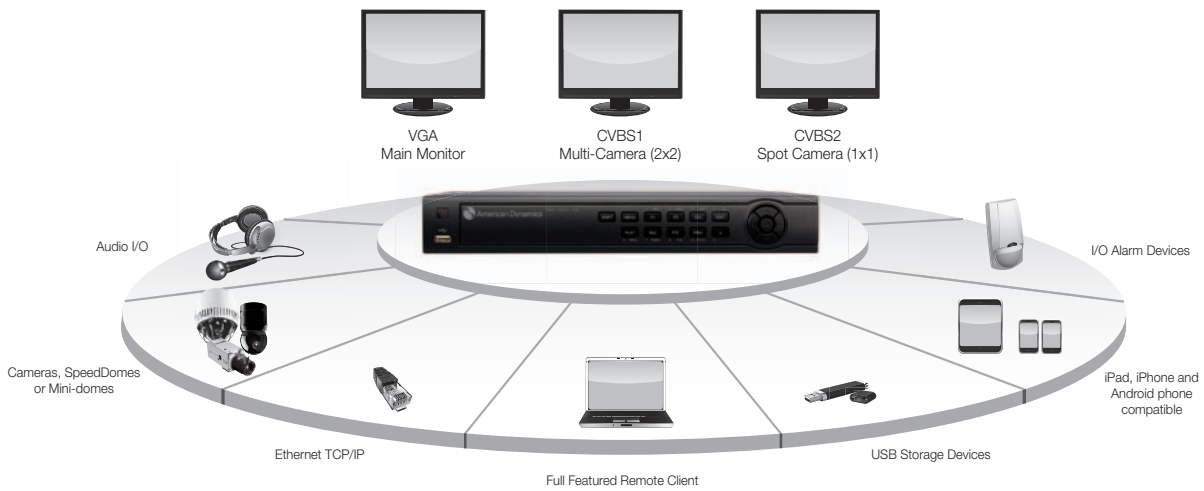
IR Remote Control

The IR remote control is a convenient way to configure and operate your ADTVR-VS3, and is included with every unit.

Features in depth

Technical Specifications

Model	Video Inputs	Audio Inputs	Frame Rate	Alarm Inputs	Alarm Outputs	Playback	USB 2.0 Ports
ADTVR-VS3	4	4	CIF: 120ips(NTSC)/100ips(PAL) 2CIF: 120ips(NTSC)/100ips(PAL) 4CIF: 48ips	4	1	4 Channels Simultaneous	2



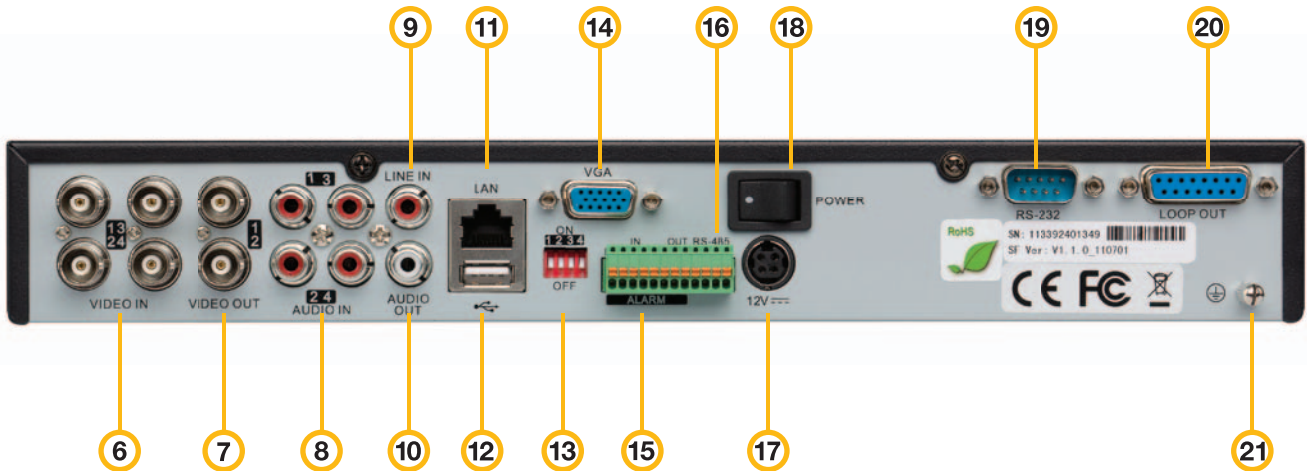
Recording Time

CIF	500GB	1TB	2TB
4-Ch. 30ips (NTSC)/25ips(PAL)	12.8 days	25.6 days	51.1 days
2CIF	500GB	1TB	2TB
4-Ch. 30ips (NTSC)/25ips(PAL)	7.6 days	15.3 days	30.7 days
4CIF	500GB	1TB	2TB
4-Ch. 12ips	10.9 days	21.9 days	43.8 days

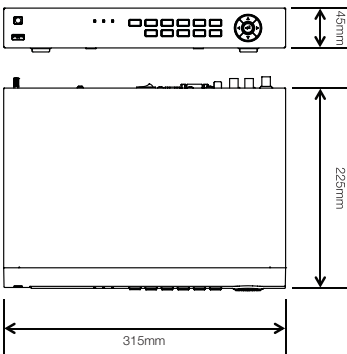
These video storage retention time estimates are for guidance only and we recommend that the ADTVR storage calculator is always used to check your requirements (NTSC).

Features in depth

- 1 IR Receiver
- 2 USB Port
- 3 Status Indicators
- 4 Control Buttons
- 5 Direction/Enter Buttons



- 6 Video in
- 7 Main Video Out (2x2 live camera view)
Spot Video Out (1x1 live camera view)
- 8 Audio In, Camera
- 9 Audio In, Talk
- 10 Audio Out
- 11 LAN Interface
- 12 USB Interface
- 13 Loop Out DIP Switches
- 14 VGA
- 15 Alarm In
Alarm Out
- 16 RS-485 Interface
- 17 Power In, 12VDC
- 18 Power On/Off Switch
- 19 RS232 Interface
- 20 Video Loop Out, Passive
(DB15 to 4 BNC fly cable included)
- 21 Ground Screw



ADTVR-VS3's small chassis design consumes less physical space as a desktop device; or place within a 19" equipment rack (occupies 1 unit of rack space).

Technical Information

General

Video Compression	H.264
Video Inputs	4 BNC (1.0Vp-p, 75Ω); NTSC/ PAL adaptive
Video Loop (Passive)	DB-15 male to 4x BNC female fly cable
Audio Input (Camera)	4 RCA (2.0Vp-p, 1K Ω)
Audio Input (Voice Talk)	1 RCA (2.0Vp-p, 1K Ω)
Audio Compression	G.711 u-law
Audio Bit Rate	64 Kbps
VGA Output (DE-15)	1 (Resolution: 1024 x 768 @ 60 Hz); main GUI display
CVBS Video Output (Main)	1 BNC (1.0Vp-p, 75Ω); main GUI display (as option when VGA not used) or 2x2 multi camera live view (when VGA is used)
CVBS Video Output (Spot)	1 BNC (1.0Vp-p, 75Ω); 1x1 single camera live view
CVBS Output Resolution	NTSC: 704 x 480 (4CIF) PAL: 704 x 576 (4CIF)
Support Dual Stream	Yes (Main and Sub stream)
Main Stream Resolution (Record & Network Live View)	4CIF/2CIF/CIF
Sub Stream Resolution (Network Live View)	CIF/QCIF
Video Bit Rate	32 KB to 1280 KB (user-definable)
Audio Output	1-ch, RCA connector (linear, 1kΩ)
Network Interface	1 RJ-45 10M/100M adaptive (4-Ch)
Stream Type	Video or Video & Audio
Synchronous Playback (Record Video)	4-channel, 2x2 display
Frame Rate	NTSC 120ips@CIF(30ips/ch), 120ips@2CIF(30ips/ch), 48ips@4CIF(12ips/ch) PAL 100ips@CIF(25ips/ch), 100ips@2CIF(25ips/ch), 48ips@4CIF(12ips/ch)
Serial Interface	1 RS-232, 1 RS-485 (T+, T-, R+, R-)
USB Port	2 USB 2.0 (1 front panel, 1 back panel)
Alarm Inputs	4
Alarm Outputs	1
SATA Internal HD Interfaces	1 (up to 2TB)
Recommended Client OS	Windows® XP SP3, Vista 32 SP2, Windows 7
Recommended Browser	IE8 with Windows XP; IE9 with Windows 7
Power Supply, External	Input: 100-240VAC, 1.3A, 50-60Hz Output: 12VDC, 2.5A
Power Consumption	≤10W (without hard disk)

Remote Client

Recommended PC requirements	
OS	Windows XP, Windows Vista, Windows 7
CPU	Intel Pentium IV 2.4 GHz or above
RAM	1GB or above
Display	1024 x 768 resolution or above
Environmental	
Operating Temperature	-10°C to +55°C (14°F to 131°F)
Operating Humidity	10% to 90%
Physical	
Dimension (H x W x D)	45 mm x 315 mm x 230 mm (1.8 in x 12.4 in x 9.1 in)
Weight (without hard disk)	≤ 2.5 kg (≤ 5.5 lbs)

Regulatory

Safety	UL 60950-1 2nd Ed. UL, CUL Listing; CE, EN60950
EMC	FCC, Part 15 Class A; ICES-003/NMB-003 Class A; AS/NZS CISPR 22:2006 Class A; EN55022 Class A; EN61000-3-2; EN61000-3-3; EN50130-4
Compliance	RoHS; WEEE

Languages

(Software & User Documentation)
English, French (Fr), German, Dutch, Italian, Spanish, Portuguese (Br),
Chinese (Si)

Model Numbers

ADTVRVS304000	4-channel looping, small chassis, H.264, 120ips@CIF, 120ips@2CIF, 48ips@4CIF, no hard drive
ADTVRVS304050	4-channel looping, small chassis, H.264, 120ips@ CIF, 120ips@2CIF, 48ips@4CIF, 500GB storage
ADTVRVS304100	4-channel looping, small chassis, H.264, 120ips@ CIF, 120ips@2CIF, 48ips@4CIF, 1TB storage
ADTVRVS304200	4-channel looping, small chassis, H.264, 120ips@ CIF, 120ips@2CIF, 48ips@4CIF, 2TB storage

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