

# ADTVR-VS2

## 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 Viewer iPhone, iPad, Android phone apps 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)

### Reliable Digital Video Recorders

CCTV is now an essential part of the equipment installed into nearly all businesses and public buildings. Today's DVR users demand better performance and more features from their DVR system. The American Dynamics ADTVR-VS2 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, ADTVR-VS2's clean and concise user interface allows full control. Remote operation and administration of the ADTVR-VS2 is easy using Internet Explorer. You can also install the included Remote Client software to view cameras from more than one ADTVR-VS2 device on the same screen. Maintain and monitor up to 256 ADTVR-VS2 units from a single client workstation.

### Central Station Monitoring

The power of ADTVR-VS2 is enhanced when used with professional remote monitoring. ADTVR-VS2 is ready to use and compatible with both Mastermind and SureView (Immix) software platforms, which are used globally.

### Security Management

Definable user profiles allow the privileges and permissions to be set for each person using the ADTVR-VS2. To get up and running quickly, a top-level administration and low-level guest profile are provided. Permissions for individual actions can be 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. ADTVR-VS2 offers up to four privacy masks per camera input, to prevent accidental viewing of sensitive material such as the keyboard of an ATM or a receptionist's face.

### Alarms

ADTVR-VS2 offers multi-zone motion detection for each camera input as well as hard-wired alarm inputs and outputs. In response to an alarm, ADTVR-VS2 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 ADTVR-VS2 is an embedded DVR, making it very reliable and competitively priced. ADTVR-VS2 offers the latest technologies such as H.264 video compression, Linux kernel OS and DSP chipset.

The ADTVR-VS2 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-VS2 to directly connect to a broadband line as an alternative option.

### Target Customers

The comprehensive capabilities, competitive price point and simplicity of operation, make ADTVR-VS2 an ideal choice for a wide range of businesses, including retail, healthcare, education, finance and transportation.

# Features in depth



## Color Coded Icons

The ADTVR-VS2 interface is extremely intuitive. Using simple color-coded icons, the various options are easy to program and operate.

Fast navigation using shortcut “context” menus within all live view displays, assists with ‘one click’ access to major functions.



## Professional Monitoring

Every ADTVR-VS2 digital video recorder is compatible with both the Mastermind and SureView Immix software platforms, which are used globally. All you need is a broadband connection, an optional router (or use the ADTVR-VS2’s internal PPPoE support) and contact with your preferred central station.



## 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 Viewer mobile apps 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.

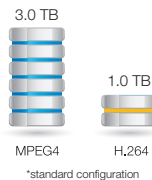


## Work Remotely

The web browser interface allows a remote connection to the ADTVR-VS2 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 have ability to flash firmware and re-boot using a remote connection.

Amount of video stored over 30 days\*



## H.264 Video Encoding

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 ADTVR-VS2 can do this while transmitting lower and less bandwidth consuming sub stream resolution over a network.

Sub Stream provides high quality remote 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-VS2 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-VS2 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 ADTVR series 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



## Real-time Recording

ADTVR-VS2 can record 30ips(NTSC)/25ips(PAL) 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.



## Quickly Select Video Clip 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.



## 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 Viewer mobile apps 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-VS2 models. Simultaneously view Main VGA, Multi-Camera CVBS1 (2x2), and Alarm Spot CVBS2 (1x1) video outputs.



## DVR System Health Check

ADTVR-VS2 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-VS2 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.



## Full Support

ADTVR-VS2 has a comprehensive range of documentation and is fully supported by our experienced team both pre and post sale.

## Five ways to configure and manage a ADTVR



### 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-VS2 allows very fast and simple navigation through the on-screen display.



### Upload from USB Drive

ADTVR-VS2 system configuration parameters can be saved to a USB drive for backup, or uploaded to other units that require identical settings.



### Remote connection

ADTVR-VS2 can be configured and managed remotely using a LAN/WAN link.



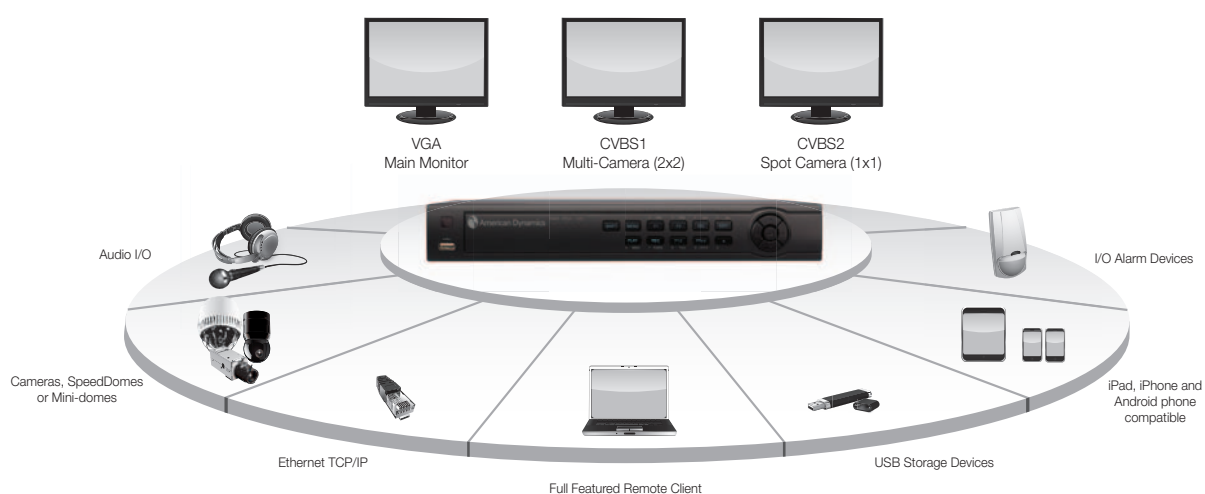
### IR Remote Control

The IR remote control is a convenient way to configure and operate your ADTVR-VS2, 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-VS2	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
4-Ch 30ips(NTSC)/25ips(PAL)	13.7 Days	27.5 Days

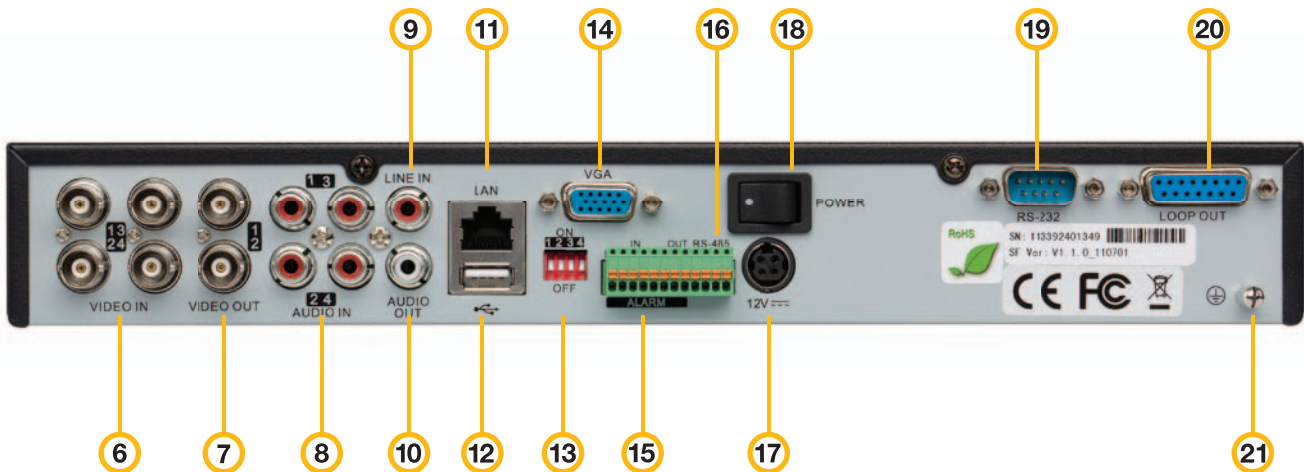
2CIF	500GB	1TB
4-Ch 30ips(NTSC)/25ips(PAL)	8.2 Days	16.5 Days

4CIF	500GB	1TB
4-Ch 12ips	11.8 Days	23.5 Days

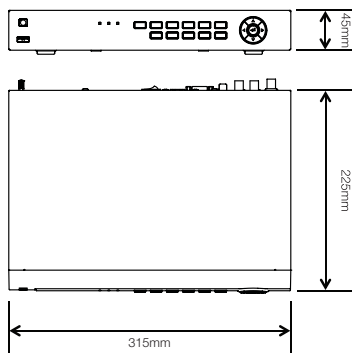
These video storage retention time estimates are for guidance only and we recommend that the ADTVR storage calculator is always used to check your requirements.

# Features in depth

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



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



ADTVR-VS2'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)	4 BNC (1.0Vp-p, 75Ω); DB-15 male to 4x BNC male 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	Internet Explorer 8
Power Supply, External	Input: 100~240VAC, 1.7A, 50~60Hz Output: 12VDC, 3.33A
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, EN60950-1:2006
EMC	FCC, Part 15 Class A; ICES-003/NMB-003 Class A; AS/NZS CISPR 22:2006 Class A; EN55022:2006 + A1:2007 Class A; EN61000-3-2:2006; EN61000-3-3:2008; EN50130-4:1995 + A1:1998 + A2:2003
Compliance	RoHS; WEEE

### Languages

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

### Model Numbers

ADTVRVS204000	4-channel looping, small chassis, H.264, 120ips@CIF, 120ips@2CIF, 48ips@4CIF, no hard drive
ADTVRVS204050	4-channel looping, small chassis, H.264, 120ips@CIF, 120ips@2CIF, 48ips@4CIF, 500GB storage
ADTVRVS204100	4-channel looping, small chassis, H.264, 120ips@CIF, 120ips@2CIF, 48ips@4CIF, 1TB storage

## Related Products



Discover Series of Analog Cameras



ADTT16E Touch Tracker



USB SensorNet Adapter



**KANTECH**  
CEM SYSTEMS

## Approvals



[www.americandynamics.net](http://www.americandynamics.net)

The trademarks, logos, and service marks displayed on this document are registered in the United States [or other countries]. Any misuse of the trademarks is strictly prohibited and Tyco International Ltd. will aggressively enforce its intellectual property rights to the fullest extent of the law, including pursuit of criminal prosecution wherever necessary. All trademarks not owned by Tyco International Ltd. are the property of their respective owners, and are used with permission or allowed under applicable laws.

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative.  
© 2012 Tyco International Ltd. and its respective companies. All rights reserved. AD0239-DS-201201-R01-A4-EN