

ADTVR

Embedded Video Recorder



Features That Make a Difference:

- Ultra-reliable, embedded Digital Video Recorder
- Range of 4, 8, and 16 video channel models with audio available (NTSC/PAL)
- Advanced H.264 video and Ogg Vorbis audio compression
- Simultaneous playback - up to 8 cameras from local interface
- Email alarm image
- Remote client software with mapping
- Web browser interface using Internet Explorer
- Fully compatible with Central Station remote monitoring software
- iPhone/iPad app
- Lock and unlock option to secure critical video events
- Local or remote PTZ control, multiple dome protocols available

Essential Digital Video Recorders

Closed-Circuit Television is now part of the essential equipment installed into nearly all businesses and public buildings. Today's DVR users demand better standards and more features from their DVR system. The American Dynamics ADTVR will deliver all these facets by offering high quality recording, long storage times, remote access and alarm reporting with Central Station monitoring.

Local and Remote Operation

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

Central Station Monitoring

The power of ADTVR is enhanced when used with professional remote monitoring. ADTVR 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. For ease of use, 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 offered by ADTVR includes

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 offers up to four privacy masks per camera input, to prevent accidental viewing of sensitive material such as the keyboard of an ATM or the window of a building.

Alarms

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

The ADTVR can easily be added to an existing TCP/IP network as DHCP, DNS, DDNS and NTP and are fully supported. Built-in PPPoE capability allows the ADTVR 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 an ideal choice for a wide range of businesses, including retail, healthcare, education, finance and transportation.

Features in depth



Color Coded Icons

The ADTVR 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 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’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 the playback of recently 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 Smartphone

The ADTVR Viewer iPhone application allows remote camera control and viewing, giving users peace-of-mind, as they monitor their premises from anywhere. Email on alarm can send three snapshots directly to any other email enabled SmartPhone.



Work Remotely

The web browser interface allows a remote connection to the ADTVR allowing, 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 firmware flash and re-boot using a remote connection.



H.264 and Ogg Vorbis

ADTVR digital video recorders use H.264 video compression to deliver longer recording times than MPEG-4 and JPEG formats.

In our tests, ADTVR’s using H.264 used less than one third of the storage space needed. This makes H.264 compression network friendly, by lowering the demand for bandwidth for a local area network and remote connections.

Ogg Vorbis audio compression stores audio recordings in smaller files, yet maintains quality sound when replayed. The better compression cuts down on both bandwidth and storage.



Genuine Pentaplex

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

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



Remote Client Software

Every American Dynamics ADTVR 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 ADTVRs from one computer.



Lock and Unlock Critical Footage

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

Features in depth



Real-time Recording

ADTVR can record 30ips(NTSC)/25ips(PAL) at 2CIF resolution across all channels, or 12ips at full 4CIF resolution across all channels. (8ips per channel at 4CIF on 4-channel ADTVR units).

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, DVD-R/W, external HDD, or a PC through Remote Client or web browser. Use the ADTVR Viewer iPhone application to access live video and save still images to your iPhone.



Extensive Monitor Support

Main monitor output is available as either BNC or VGA (XGA, 1024 x 768) on all models.



User Profiles

ADTVR supports multiple user logins (up to 32) and user levels. Top level administration and guest profiles are provided, and permissions for individual actions can be defined at a very detailed level.



DVR System Health Check

ADTVR 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 the user to quickly view recorded events in a preview window. A robust query tool helps save time when scrolling through transactions.



Seamless Integration

ADTVR 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 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



From the ADTVR's front panel

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



USB Mouse

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



Upload from USB Drive

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



Remote connection

ADTVRs can be configured and managed remotely using a LAN/WAN link.



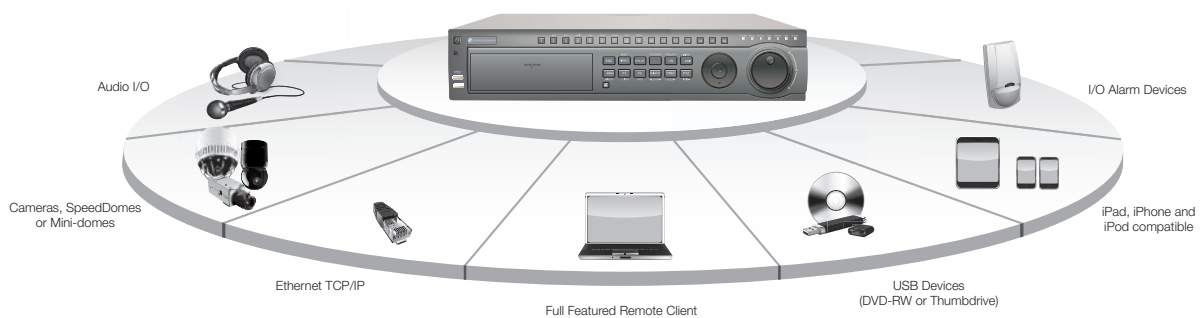
IR Remote Control

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

Features in depth

Technical Specifications

Model	Video Inputs	Audio Inputs	Frame Rate	Alarm Inputs	Alarm Outputs	Playback	DVD R/W	USB 2.0 Ports
ADTVR	4	4	CIF: 120ips(NTSC)/100ips(PAL) 2CIF: 120ips(NTSC)/100ips(PAL) 4CIF: 32ips	4	2	4 Channels Simultaneous	Yes	3
	8	8	CIF: 240ips(NTSC)/200ips(PAL) 2CIF: 240ips(NTSC)/200ips(PAL) 4CIF: 96ips	16	4	8 Channels Simultaneous	Yes	3
	16	16	CIF: 480ips(NTSC)/400ips(PAL) 2CIF: 480ips(NTSC)/400ips(PAL) 4CIF: 192ips					



Recording Time

CIF	500GB	1TB	2TB	4TB
4-Ch 30ips(NTSC)/25ips(PAL)	13.3 Days	27.5 Days	N/A	N/A
8-Ch 30ips(NTSC)/25ips(PAL)	6.8 Days	13.3 Days	27.5 Days	N/A
16-Ch 30ips(NTSC)/25ips(PAL)	3.4 Days	6.8 Days	13.3 Days	27.5 Days

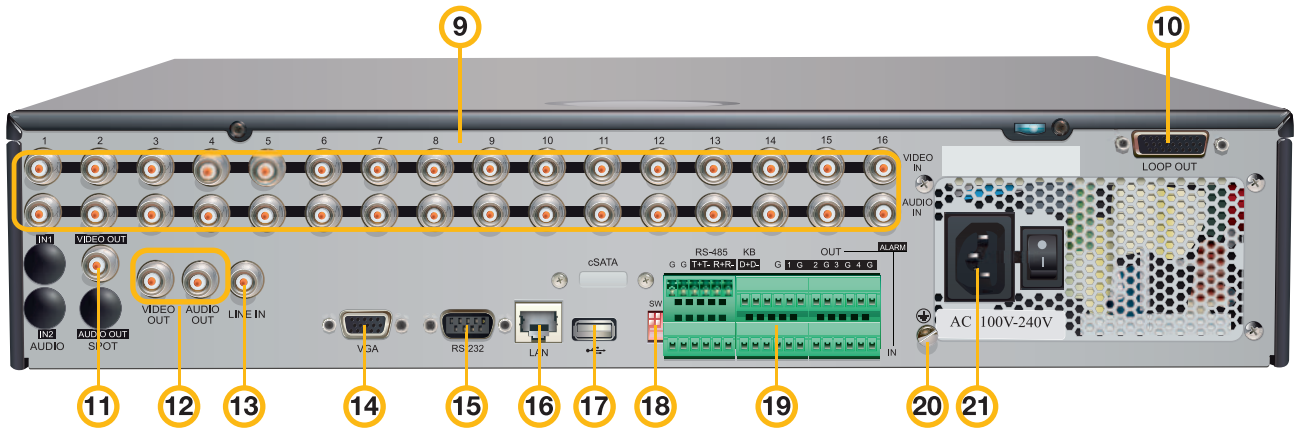
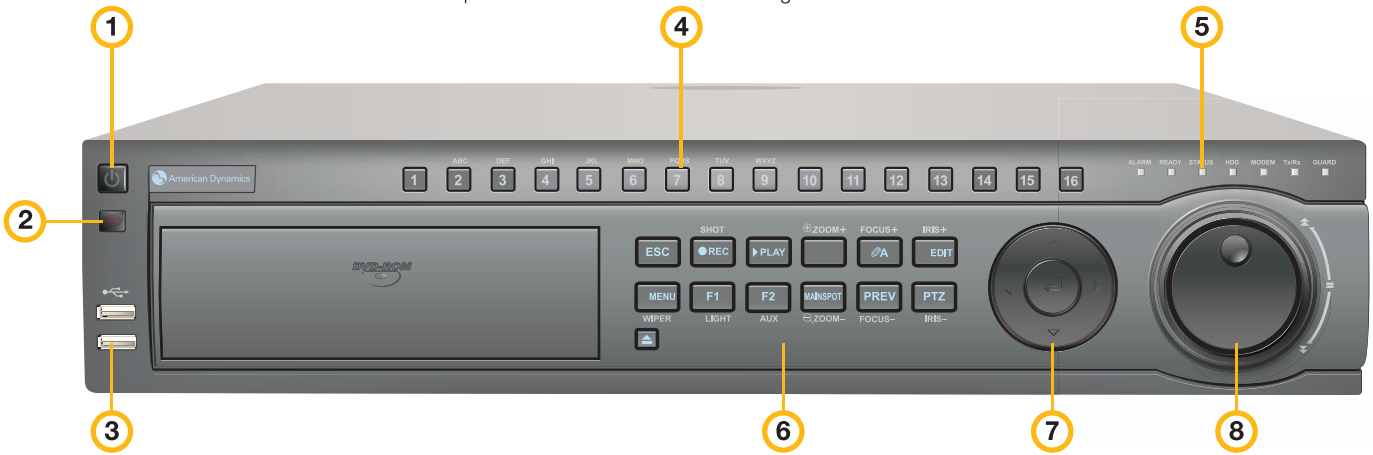
2CIF	500GB	1TB	2TB	4TB
4-Ch 30ips(NTSC)/25ips(PAL)	8.2 Days	16.5 Days	N/A	N/A
8-Ch 12ips	8.2 Days	16.5 Days	33.0 Days	N/A
16-Ch 12ips	4.1 Days	8.2 Days	16.5 Days	33.0 Days

4CIF	500GB	1TB	2TB	4TB
4-Ch 8ips	16.5 Days	33.0 Days	N/A	N/A
8-Ch 6ips	10.3 Days	20.6 Days	41.2 Days	N/A
16-Ch 6ips	5.1 Days	10.3 Days	20.6 Days	41.2 Days

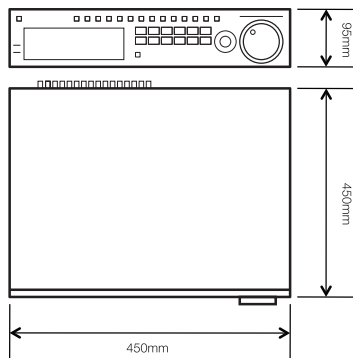
These video storage retention time estimates are for guidance only and we recommend that the ADTVR storage calculator is always used to check your requirements.

Features in depth

- 1 Power Button
- 2 IR Receiver
- 3 USB Ports
- 4 Alphanumeric Buttons
- 5 Status Indicators
- 6 Control Buttons
- 7 Direction/Enter Buttons
- 8 Jog Shuttle Control



- 9 Video & Audio IN
- 10 Loop OUT
- 11 Video Spot OUT
- 12 Video & Audio OUT
- 13 Line IN
- 14 VGA
- 15 RS232
- 16 LAN Interface
- 17 USB Interface
- 18 RS485 Termination Switch
- 19 RS485 Interface, Controller Port, Alarm IN & Alarm OUT
- 20 Earth Ground
- 21 Mains Power



ADTVR's aesthetics and attractive user interface make an excellent desktop device; or you can easily mount it in a 19" space saving rack, occupying 2 units of rack space.

Technical Information

General

Video Compression	H.264
Video Inputs	4/8/16 BNC (1.0Vp-p, 75Ω)
Audio Input	4/8/16 BNC (2.0Vp-p, 1K Ω)
Audio In Voice	1 BNC (2.0Vp-p, 1K Ω)
Audio Compression	OggVorbis
Audio Bit Rate	16 kbps
Live Resolution	NTSC: 704 x 480 (4CIF) PAL: 704 x 576
Record Resolution	4CIF/2CIF/CIF/QCIF
VGA Output (DE-15)	1 (Resolution: 1024 x 768 @ 60 Hz)
Main Video Output	1 BNC (1.0Vp-p, 75Ω) ¹
Spot Video Output	1 BNC (1.0Vp-p, 75Ω)
Video Bit Rate	32 KB to 2048 KB (user-definable)
Audio Output	1 BNC (Linear, 600Ω)
Network Interface	1 RJ-45 10M/100M adaptive (4-Ch) 1 RJ-45 10M/100M/1000M adaptive (8-Ch & 16-Ch)
Stream Type	Video or Video & Audio
Support Dual Stream	Yes
Synchronous Playback	4-channel (local UI) (4-Ch) 8-channel (local UI) (8-Ch & 16-Ch)
4-Channel Units	NTSC 120ips@CIF, 120ips@2CIF, 32ips@4CIF (100/100/32ips PAL)
8-Channel Units	NTSC 240ips@CIF, 240ips@2CIF, 96ips@4CIF (200/200/96ips PAL)
16-Channel Units	NTSC 480ips@CIF, 480ips@2CIF, 192ips@4CIF (400/400/192ips PAL)
Serial Interface	1 RS-232, 1 RS-485 (T+, T-, R+, R-), 1 RS-485 (D+, D-)
USB Port	3 USB 2.0 (2 front panel, 1 back panel)
Alarm Inputs	4/16/16 (with 4/8/16 unit)
Alarm Outputs	2/4/4 (with 4/8/16 unit)
SATA Internal HD Interfaces	4/8/8 SATA (with 4/8/16 unit)
Recommended Client OS	Windows® XP SP3, Vista 32 SP2, Windows 7
Recommended Browser	Internet Explorer 8
Power Supply	Input: 100~240VAC, 6.3A, 50~60Hz
Power Consumption	≤ 50W (without HD or DVD)

Remote Client

Recommended PC requirements	
OS	Microsoft Windows XP, Windows Vista, Windows 7
CPU	Intel Pentium IV 2.4 GHz or above
RAM	1GB or above
Display	1024 × 768 resolution or above

Note: All ips measurements reflect NTSC format. 120 ips (NTSC) = 100 ips (PAL).

(1) If the VGA output is in use, the main BNC composite video output will not function. If the VGA output is not connected, the main composite interface is used as the main video output with local video display and menu operators.

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)	... 95 x 450 x 450 mm (3.7 x 17.7 x 17.7 in)
Chassis	... 482.59 mm (19 in standard)
Weight	... ≤ 8 kg (<17.64 lb) (without HD or DVD)

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, Italian, Spanish, Portuguese (Br), Chinese (Si)

Model Numbers

ADTVR04000	4 channel, 120ips (100ips PAL) @ CIF, 120ips @ 2CIF, 32ips @ 4CIF, No HDD, No DVD R/W
ADTVR04050	4 channel, 120ips (100ips PAL) @ CIF, 120ips @ 2CIF, 32ips @ 4CIF, 500 GB, DVD R/W
ADTVR04100	4 channel, 120ips (100ips PAL) @ CIF, 120ips @ 2CIF, 32ips @ 4CIF, 1 TB, DVD R/W
ADTVR08000	8 channel, 240ips (200ips PAL) @ CIF, 240ips @ 2CIF, 96ips @ 4CIF, No HDD, No DVD R/W
ADTVR08050	8 channel, 240ips (200ips PAL) @ CIF, 240ips @ 2CIF, 96ips @ 4CIF, 500 GB, DVD R/W
ADTVR08100	8 channel, 240ips (200ips PAL) @ CIF, 240ips @ 2CIF, 96ips @ 4CIF, 1 TB, DVD R/W
ADTVR08200	8 channel, 240ips (200ips PAL) @ CIF, 240ips @ 2CIF, 96ips @ 4CIF, 2 TB, DVD R/W
ADTVR16000	16 channel, 480ips (400ips PAL) @ CIF, 480ips @ 2CIF, 192ips @ 4CIF, No HDD, No DVD R/W
ADTVR16050	16 channel, 480ips (400ips PAL) @ CIF, 480ips @ 2CIF, 192ips @ 4CIF, 500 GB, DVD R/W
ADTVR16100	16 channel, 480ips (400ips PAL) @ CIF, 480ips @ 2CIF, 192ips @ 4CIF, 1 TB, DVD R/W
ADTVR16200	16 channel, 480ips (400ips PAL) @ CIF, 480ips @ 2CIF, 192ips @ 4CIF, 2 TB, DVD R/W
ADTVR16400	16 channel, 480ips (400ips PAL) @ CIF, 480ips @ 2CIF, 192ips @ 4CIF, 4 TB, DVD R/W

Related Products



Discover Series of Analog Cameras

Approvals



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