

ADTVR-LT

Embedded Video Recorder



Features That Make a Difference:

- Ultra-reliable, embedded Digital Video Recorder
- Rack mount ready chassis design, equipment rack mount brackets (included)
- 8 and 16 looping video channel models (NTSC/PAL) with 4-channels of audio
- H.264 video compression with real time recording option
- Simultaneous playback - up to 8 cameras
- E-mail 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)

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

Central Station Monitoring

The power of ADTVR-LT is enhanced when used with professional remote monitoring. ADTVR-LT 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-LT. 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 offered by ADTVR-LT 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-LT 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-LT offers multi-zone motion detection for each camera input as well as hard-wired alarm inputs and outputs. In response to an alarm, ADTVR-LT 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-LT is an embedded DVR, making it very reliable and competitively priced. ADTVR-LT offers the latest technologies, such as H.264 video compression, Linux kernel OS and DSP chipset.

The ADTVR-LT 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-LT 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-LT an ideal choice for a wide range of businesses, including retail, healthcare, education, finance and transportation.

Features in depth



Color Coded Icons

The ADTVR-LT 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-LT 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-LT’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 Android Phone Support

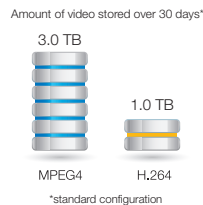
Utilize the ADTVR Viewer mobile apps to view live cameras across multiple ADTVR series devices, bookmark popular 2x2 multi-camera layouts, save image snapshots, and control PTZ cameras. In addition, send email alerts on alarm, with the option to include JPEG snapshots, directly to any email enabled Smartphone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



Work Remotely

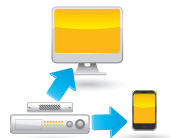
The web browser interface allows a remote connection to the ADTVR-LT allowing, control of key functions such as Live Preview, Search & Playback, Archiving, PTZ Control, Two-way Audio, Configuration, Event Log function, and User Management.

Full administrators have ability to firmware flash and re-boot using a remote connection.



H.264 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 Motion JPEG and MPEG-4 video standards.



Advanced Dual Stream Technology

The ADTVR series Dual Stream technology is used to record Main Stream high resolution video locally while transmitting lower, less bandwidth consuming, Sub Stream resolution over the network.

Sub Stream is independent of record image quality, in providing high quality remote viewing from remote client, web client and mobile client devices; commonly utilized in retail and small business applications with limited network bandwidth (i.e. DSL, wireless networks, etc.).



Genuine Pentaplex

The ADTVR-LT 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 series recorder 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

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

Features in depth



Real-time Recording

ADTVR-LT can record 30fps(NTSC)/25fps(PAL) at CIF resolution across all channels, or 12fps at full 2CIF resolution across all channels. (16fps per channel at 2CIF on 8-channel ADTVR-LT units).

ADTVR-LT offers QCIF, CIF, 2CIF and 4CIF record resolution options. 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-LT models. Simultaneously view Main VGA and Alarm Spot CVBS2 (1x1) video outputs.



DVR System Health Check

ADTVR-LT 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 PTZ Camera Integration

ADTVR-LT 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-LT 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-LT allows very fast and simple navigation through the on-screen display.



Upload from USB Drive

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



Remote connection

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



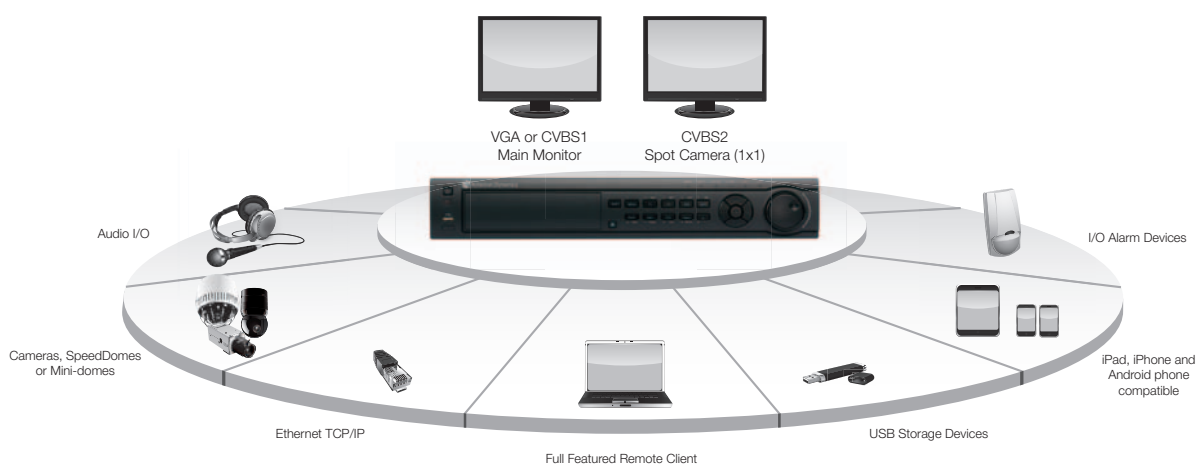
IR Remote Control

The IR remote control is a convenient way to configure and operate your ADTVR-LT, 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-LT	8	4	CIF: 240ips(NTSC)/200ips(PAL) 2CIF: 128ips 4CIF: 64ips	16	4	8 Channels Simultaneous	2
	16	4	CIF: 480ips(NTSC)/400ips(PAL) 2CIF: 192ips 4CIF: 96ips				



Recording Time

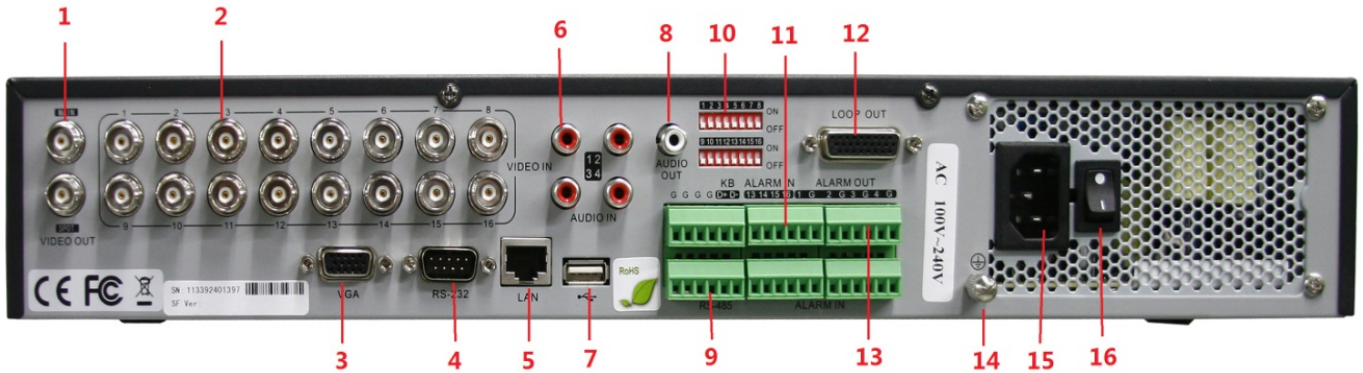
CIF	500GB	1TB	2TB	4TB
8-Ch 30ips(NTSC)/25ips(PAL)	6.8 Days	13.7 Days	27.5 Days	N/A
16-Ch 30ips(NTSC)/25ips(PAL)	3.4 Days	6.8 Days	13.7 Days	27.5 Days
2CIF	500GB	1TB	2TB	4TB
8-Ch 16ips	6.8 Days	13.7 Days	27.5 Days	N/A
16-Ch 12ips	5.1 Days	10.3 Days	20.6 Days	41.2 Days
4CIF	500GB	1TB	2TB	4TB
8-Ch 8ips	8.2 Days	16.5 Days	33.0 Days	N/A
16-Ch 6ips	5.9 Days	11.8 Days	23.5 Days	47.1 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

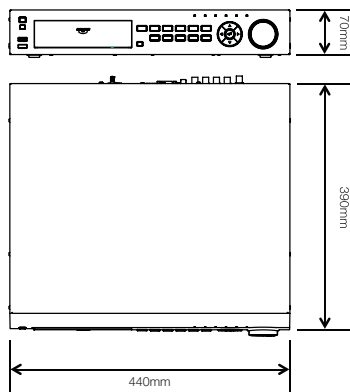
1. Power Button
2. IR Receiver
3. USB Port
4. Status Indicators

5. Control Buttons
6. Direction/Enter Buttons
7. Jog Shuttle Control
8. DVD-ROM



1. Main Video Out
Spot Video Out (1x1 live camera view)
2. Video In
3. VGA
4. RS232 Interface
5. LAN Interface
6. Audio In
7. USB Interface
8. Audio Out
9. RS-485 Interface
T+, T- pin connects to PTZ

10. Loop Out DIP Switches
11. Alarm In
12. Video Loop Out, Passive (DB15 to 4 BNC fly cable included)
13. Alarm Out
14. Ground Screw
15. Power In
16. Power On/Off Switch



ADTNR-LT's aesthetics and attractive user interface make an excellent desktop device; or mount within a 19" equipment rack (occupies 1.5 units of rack space).

Technical Information

General

Video Compression	H.264
Video Inputs	8/16 BNC (1.0Vp-p, 75Ω); NTSC/ PAL adaptive
Video Loop (Passive)	8/16 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) ; Utilizes Audio Input CH-1
Audio Compression	G.711 a-law
Audio Bit Rate	16 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) ¹
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/QCIF
Sub Stream Resolution (Network Live View)	QCIF
Video Bit Rate	32 KB to 1024 KB (user-definable)
Audio Output	1-ch, RCA connector (linear, 600Ω)
Network Interface	1 RJ-45 10M/100M adaptive
Stream Type	Video or Video & Audio
Synchronous Playback (Record Video)	8-channel
Frame Rate, 8-Channel Units	NTSC 240ips@QCIF(30ips/ch), 240ips@CIF(30ips/ch), 128ips@2CIF(16ips/ch), 64ips@4CIF(8ips/ch) PAL 200ips@QCIF(25ips/ch), 200ips@CIF(25ips/ch), 128ips@2CIF(16ips/ch), 64ips@4CIF(8ips/ch)
Frame Rate, 16-Channel Units	NTSC 480ips@QCIF(30ips/ch), 480ips@CIF(30ips/ch), 192ips@2CIF(12ips/ch), 96ips@4CIF(6ips/ch) PAL 400ips@QCIF(25ips/ch), 400ips@CIF(25ips/ch), 192ips@2CIF(12ips/ch), 96ips@4CIF(6ips/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	16
Alarm Outputs	4
SATA Internal HD Interfaces (with DVD-ROM)	2 (up to 2TB)
SATA Internal HD Interfaces (without DVD-ROM)	4 (up to 2TB)
Recommended Client OS	Windows® XP SP3, Vista 32 SP2, Windows 7
Recommended Browser	Internet Explorer 8
Power Supply, Internal	100~240VAC, 6.3A, 50~60Hz
Power Consumption	≤40W (without hard disk or DVD-R/W)

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 operations.

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 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)	70 mm x 440 mm x 390 mm (2.8 in x 17.3 in x 15.4 in)
Weight (without hard disk or DVD-ROM)	≤ 8 Kg (≤ 17.6 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

ADTVRLT08000	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 128ips/2CIF, 64ips/4CIF, no DVD-RW, no hard drive (bare box)
ADTVRLT08050	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 128ips/2CIF, 64ips/4CIF, DVD-RW, 500GB storage
ADTVRLT08100	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 128ips/2CIF, 64ips/4CIF, DVD-RW, 1TB storage
ADTVRLT08200	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 128ips/2CIF, 64ips/4CIF, DVD-RW, 2TB storage
ADTVRLT16000	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 192ips/2CIF, 96ips/4CIF, no DVD-RW, no hard drive (bare box)
ADTVRLT16050	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 192ips/2CIF, 96ips/4CIF, DVD-RW, 500GB storage
ADTVRLT16100	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 192ips/2CIF, 96ips/4CIF, DVD-RW, 1TB storage
ADTVRLT16200	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 192ips/2CIF, 96ips/4CIF, DVD-RW, 2TB storage
ADTVRLT16400	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 192ips/2CIF, 96ips/4CIF, DVD-RW, 4TB storage

Related Products



Discover Series of Analog Cameras



ADTT16E Touch Tracker



USB SensorNet Adapter



KANTECH
CEM SYSTEMS

Approvals



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