

ADTVR-LT2

Embedded Video Recorder



Features That Make a Difference:

- Ultra-reliable, embedded digital video recorder
- Rack-mount ready chassis design, rack-mount brackets included
- 8 and 16 looping video channel models with 4 channels of audio
- H.264 video compression with real-time recording option
- Simultaneous playback up to 8 cameras
- Email alarm images on event
- Dual main and substream remote live view connections, ideal for mobile apps
- ADTVR Go 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
- Supports Point-of-Sale (PoS) text integration
- Dual SMTP email server support for increased reliability

Essential Digital Video Recorders

The ADTVR series of recorders is available in three different models that provide high-quality performance in a DVR.

Today's DVR users demand better performance and more features from their DVR system. ADTVR-LT2 delivers high-quality recording, long storage times, remote access, and alarm reporting with professional 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-LT2 is easy, using Internet Explorer. You can also install the included Remote Client software to view cameras from more than one recorder series device on the same screen. Maintain and monitor up to 256 units from a single client workstation.

Central Station Monitoring

The power of ADTVR-LT2 is enhanced when used with professional remote monitoring. In addition, the recorder 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 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

The recorder offers up to four privacy masks per camera input to prevent accidental viewing of sensitive material such as someone typing a PIN at an ATM or viewing private meetings through a conference room window.

Alarms

The ADTVR-LT2 offers multi-zone motion detection for each camera input as well as hard-wired alarm inputs and outputs. In response to an alarm, the device 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-LT2 is an embedded DVR, making it very reliable. Applications are contained (embedded) in the software, specifically manufactured to work as a DVR. An embedded DVR includes fewer parts, making for a stable software platform. The device offers the latest in technologies such as H.264 compression, a Linux kernel OS, and DSP chipset.

The recorder can easily be added to an existing network as DHCP, DNS, DDNS and NTP are fully supported. Built-in PPPoE capability allows the ADTVR-LT2 to directly connect to a broadband line as an alternative option.

Features in depth



Color Coded Icons

The ADTVR-LT2 interface is extremely intuitive. Using simple color-coded icons, the various options are easy to program and operate.



Professional Monitoring

Every ADTVR-LT2 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 recently recorded video allows you to quickly assess critical events. By removing layers of menus, you can be more proactive in responding to incidents.



Mobile App for iPhone, iPad, and Android

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 of including JPEG snapshots, directly to any smart device.

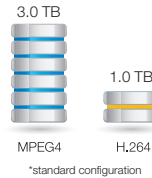


Work Remotely

The web browser interface allows a remote connection to the ADTVR-LT2 providing control of key functions such as live preview, search and playback, archiving, PTZ control, two way audio, configuration, event log function and user management.

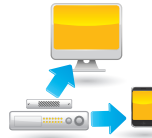
Full administrators are able to flash firmware and re-boot using a remote connection.

Amount of video stored over 30 days*



H.264 Video Compression

The ADTVR series of digital video recorders utilize H.264 video compression 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 main stream video locally. The LT2 can transmit sub stream resolution over a network, while using less bandwidth.

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



Genuine Pentaplex

The ADTVR-LT2 operates 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 ADTVR-LT2 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

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

Features in depth



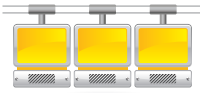
Quickly Select Video Clip for Export

Within the instant playback function, you 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-LT2 can record 30ips (NTSC) at 2CIF resolution across all channels, or 12ips at full 4CIF resolution across all channels.



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-LT2 models. Simultaneously view Main VGA and Alarm Spot CVBS2 (1x1) video outputs.



DVR System Health Check

ADTVR-LT2 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-LT2 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-LT2 now supports a text interface enabling the ADTVR-LT2 to be connected to Point of Sale (PoS) devices. This enables the recording, playback and viewing of up to four PoS devices from a single ADTVR-LT2 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 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-LT2 allows very fast and simple navigation through the on-screen display.



Upload from USB Drive

ADTVR-LT2 system configuration parameters can be saved to a USB drive for backup, or uploaded to other units that require identical settings.



Remote Connection

ADTVR-LT2 can be configured and managed remotely using a LAN/WAN link.



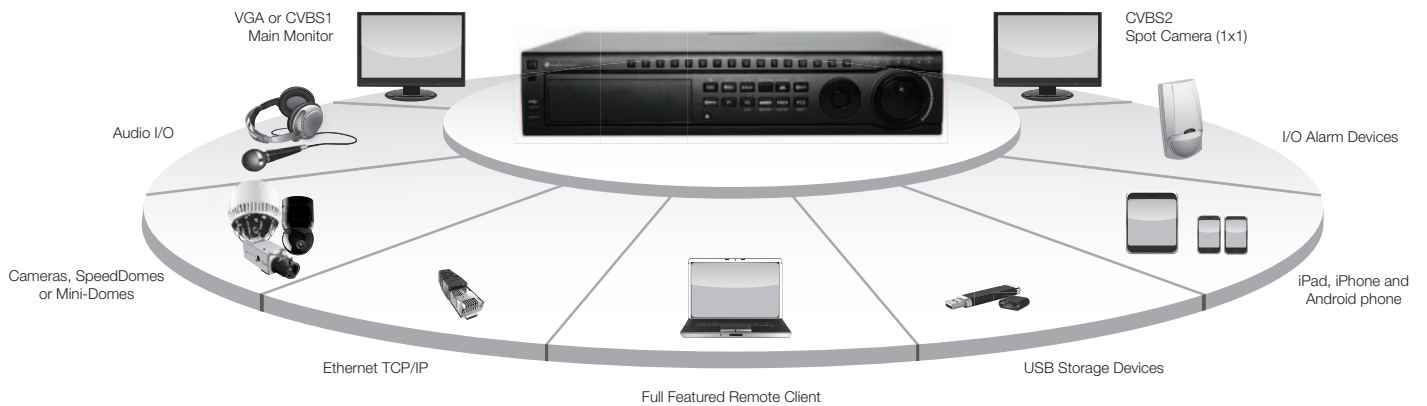
IR Remote Control

The IR remote control is a convenient way to configure and operate your ADTVR-LT2, 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-LT2	8	4	CIF: 240ips(NTSC)/200ips(PAL) 2CIF: 240/200ips 4CIF: 96/96ips	16	4	8 Channels Simultaneous	2
	16	16	CIF: 480ips(NTSC)/400ips(PAL) 2CIF: 480/400ips 4CIF: 192/192ips				



Recording Time

CIF	500GB	1TB	2TB	3TB	4TB	6TB
8-Ch. 30ips(NTSC)/25ips(PAL)	6.4 days	12.8 days	25.6 days	38.4 days	N/A	N/A
16-Ch. 30ips(NTSC)/25ips(PAL)	3.2 days	6.4 days	12.8 days	19.2 days	25.6 days	38.4 days

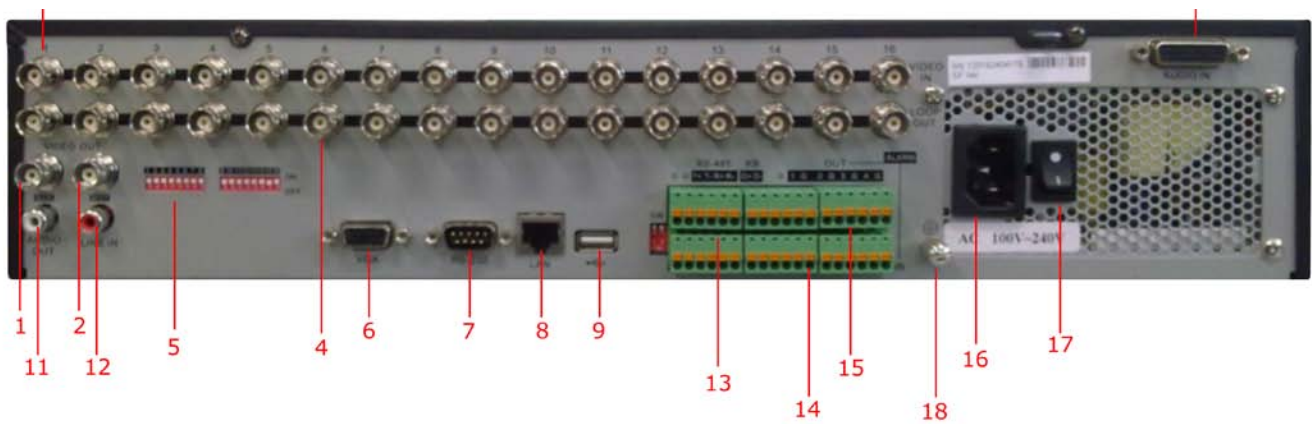
2CIF	500GB	1TB	2TB	3TB	4TB	6TB
8-Ch. 30ips	3.8 days	7.6 days	15.3 days	23 days	N/A	N/A
16-Ch. 30ips	1.9 days	3.8 days	7.6 days	11.5 days	15.3 days	23 days

4CIF	500GB	1TB	2TB	3TB	4TB	6TB
8-Ch. 12ips	5.4 days	10.9 days	21.9 days	32.9 days	N/A	N/A
16-Ch. 12ips	2.7 days	5.5 days	10.9 days	16.4 days	21.9 days	32.8 days

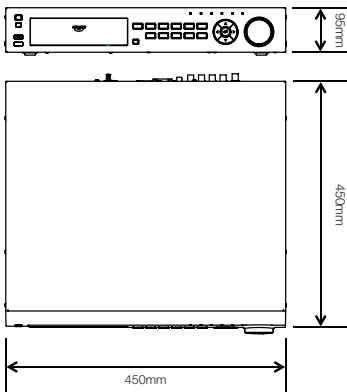
These video storage retention time estimates are for guidance only and we recommend that the ADTVR storage calculator is always used to check your requirements.

Features in depth

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



- | | | |
|-------------------------------------|---|-------------------------|
| 1. Main Video Out | 7. RS232 Interface | 13. RS-485 Interface |
| 2. Spot Video Out (1x1 camera view) | 8. LAN Interface | 14. Alarm In |
| 3. Video In | 9. USB Interface | 15. Alarm Out |
| 4. Video Loop Out | 10. Audio In (DB26 cable to female RCA octopus cable) | 16. Power In |
| 5. Loop Out DIP Switches | 11. Audio Out | 17. Power On/Off Switch |
| 6. VGA | 12. Audio Line In | 18. Ground Screw |



ADTVR-LT2's aesthetics and attractive user interface make an excellent desktop device; or mount within a 19" equipment rack (occupies 2.0 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 ch. - DB15 male to 8x BNC female 16 ch. - 16x BNC
Audio Input (Camera)	8 ch. - 4x RCA female (2.0Vp-p, 1Kohm) 16 ch. - DB-26 male to RCA female fly cable
Audio Input (Voice Talk)	1 RCA (2.0Vp-p, 1K Ω) ; Utilizes Audio Input CH-1
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) 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
Sub Stream Resolution (Network Live View)	CIF/QCIF
Video Bit Rate	32 kbps to 1280 kbps (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 (8ch.)	NTSC, 240ips@ CIF(30ips/ch), 240ips@2CIF(30ips/ch), 96ips@4CIF(12ips/ch) PAL, 200ips@CIF(25ips/ch), 200ips@2CIF(25ips/ch), 96ips@4CIF(12ips/ch)
Power Supply (8ch.)	12V, 3.0A (External AC-DC PSU supplied)
Frame Rate (16ch.)	NTSC, 480ips@ CIF(30ips/ch), 480ips@2CIF(30ips/ch), 192ips@4CIF(12ips/ch) PAL, 400ips@CIF(25ips/ch), 400ips@2CIF(25ips/ch), 192ips@4CIF(12ips/ch)
Power Supply (16ch.)	100-240VAC, 1.0A, 50-60Hz (Internal)
Serial Interface	1 RS-232, 1 RS-485 (T+, T-, R+, R-)
USB Port	8 ch. - 2 x USB 2.0 (1 front, 1 rear) 16 ch. - 3 x USB 2.0 (2 front, 1 rear)

Alarm Inputs	16
Alarm Outputs	4
SATA Internal HD Interfaces (with DVD-ROM)	2 (up to 3TB)
SATA Internal HD Interfaces (without DVD-ROM)	4 (up to 3TB)
Recommended Client OS	Windows® XP SP3, Vista 32 SP2, Windows 7
Recommended Browser	IE8 with Windows XP, IE9 with Windows 7
Power Consumption	8 ch. - <10W (without hard disk or DVD-RW) 16 ch. - <50W (without hard disk or DVD-RW)

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)	8 ch. - 70 x 440 x 390 mm; (2.8 x 17.3 x 15.4 in) 16 ch. - 95 x 450 x 450 mm; (3.7 x 17.7 x 17.7 in)
Weight (without hard disk or DVD-ROM)	8 kg (17.8 lbs)

Regulatory

Safety	UL 60950-1 2nd Ed. UL, CUL Listing; CE, EN60950-1
EMC	FCC, Part 15 Class A; ICES-003/NMB-003 Class A; AS/NZS CISPR 22 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)

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.

Model Numbers	Description
ADTVRLT208000	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 240ips/2CIF, 96ips/4CIF, no DVD-RW, no hard drive (bare box)
ADTVRLT208050	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 240ips/2CIF, 96ips/4CIF, DVD-RW, 500GB storage
ADTVRLT208100	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 240ips/2CIF, 96ips/4CIF, DVD-RW, 1TB storage
ADTVRLT208200	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 240ips/2CIF, 96ips/4CIF, DVD-RW, 2TB storage
ADTVRLT208300	8-channel looping, rack mount chassis, H.264, 240ips/CIF, 240ips/2CIF, 96ips/4CIF, DVD-RW, 3TB storage
ADTVRLT216000	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, no DVD-RW, no hard drive (bare box)
ADTVRLT216050	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 500GB storage
ADTVRLT216100	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 1TB storage
ADTVRLT216200	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 2TB storage
ADTVRLT216300	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 3TB storage
ADTVRLT216400	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 4TB storage
ADTVRLT216600	16-channel looping, rack mount chassis, H.264, 480ips/CIF, 480ips/2CIF, 192ips/4CIF, DVD-RW, 6TB storage

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