Quick Operation Guide of LTN7700/7600 Series NVR

UD.6L0202B0042A02

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact dealer.
This manual is applicable to LTN7616, LTN7732, LTN7604-P4, LTN7608-P4, LTN7608-P8 and LTN7732-P8 series NVR.

Verify Contents

Verify that the package contents are correct by checking the items against the packing list.

Note: Please contact your dealer for damaged or missing items.

NVR Pre-Installation

The LTN7616, LTN7732, LTN7604-P4, LTN7608-P4, LTN7608-P8 and LTN7732-P8 series NVR are highly advanced surveillance equipment that should be installed with care. Please take into consideration the following precautionary steps before installation of the NVR.

1. Keep all liquids away from the NVR.
2. Install the NVR in a well-ventilated and dust-free area.
3. Ensure environmental conditions meet factory specifications.
4. Install a manufacturer recommended HDD.

NVR Installation

During the installation of the NVR:

1. Use brackets for rack mounting.
2. Ensure there is ample room for audio and video cables.
3. When installing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
4. Connect both the alarm and RS-485 cable.
5. Allow at least 2cm (~0.75-inch) of space between racks mounted devices.
6. Ensure the NVR is grounded.
7. Environmental temperature should be within the range of -10 ℃ ~ 55 ℃, 14 ℉ ~ 131 ℉.
8. Environmental humidity should be within the range of 10% ~ 90%.

Hard Disk Installation

Before you start:

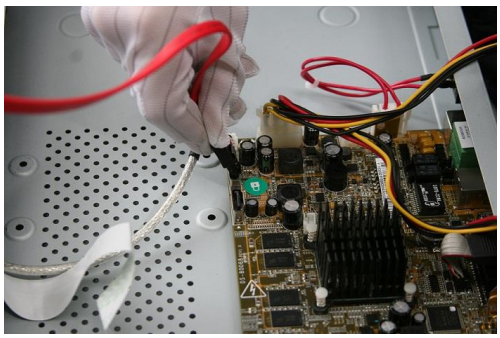
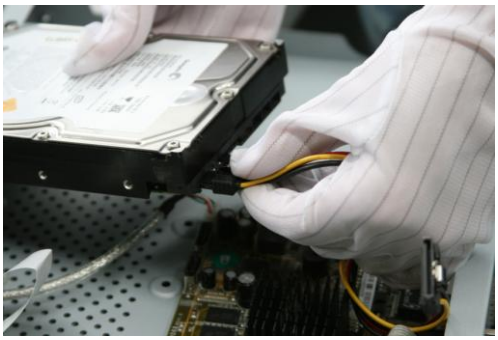
Before installing a hard disk drive (HDD), please make sure the power is disconnected from the NVR. A factory recommended HDD should be used for this installation.

Tools Required: Screwdriver.

Steps (for LTN7616, LTN7732 and LTN7732-P8):

1. Remove the cover from the NVR by unfastening the screws on the rear and side panel.

2. Connect one end of the data cable to the motherboard of NVR and the other end to the HDD.

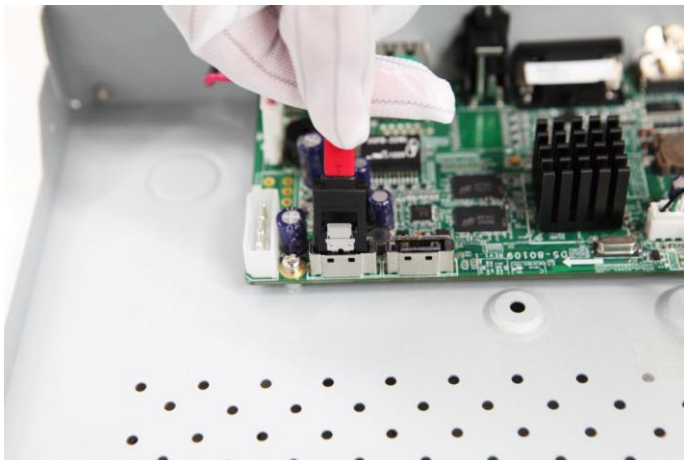
3. Connect the power cable to the HDD.

4. Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.

Steps (for LTN7604-P4, LTN7608-P4 and LTN7608-P8):

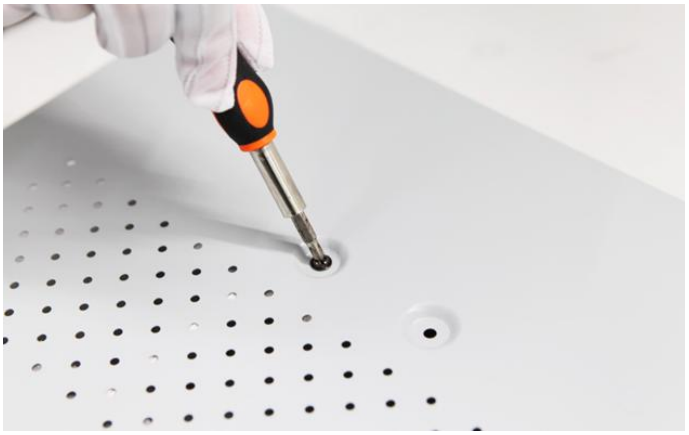
1. Remove the cover from the NVR by unfastening the screws on the back and side.


2. Connect one end of the data cable to the motherboard of NVR and the other end to the HDD.



3. Connect the power cable to the HDD.

4. Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.



5. Re-install the cover of the NVR and fasten screws.

Front Panel

LTN7732 and LTN7732-P8

① Status Indicators (Alarm, Ready, Status, HDD, Power, Tx/Rx)

② DVD-R/W

③ Control Buttons

④ Compound Buttons

⑤ Shuttle Button

⑥ Power Button

⑦ USB interface

LTN7616:

① USB Interface

② Status Indicators (Alarm, Ready, Status, HDD, power, Tx/Rx)

③ SHIFT

④ Compound Buttons

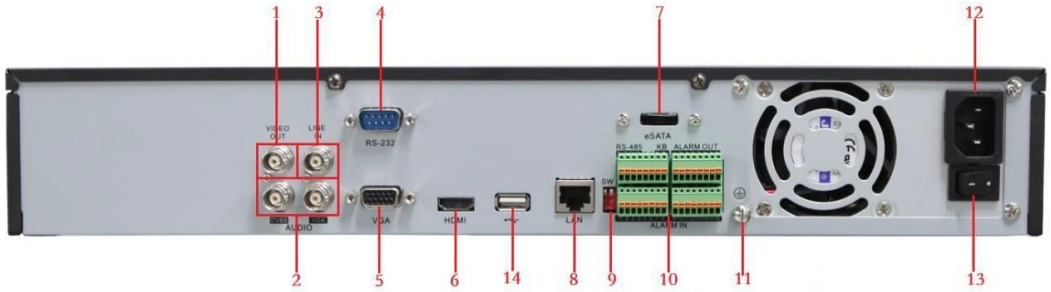
⑤ Control Buttons

LTN7604-P4, LTN7608-P4 and LTN7608-P8:

① Status Indicator(Power, Status, Tx/Rx)

② USB Interface

Rear Panel

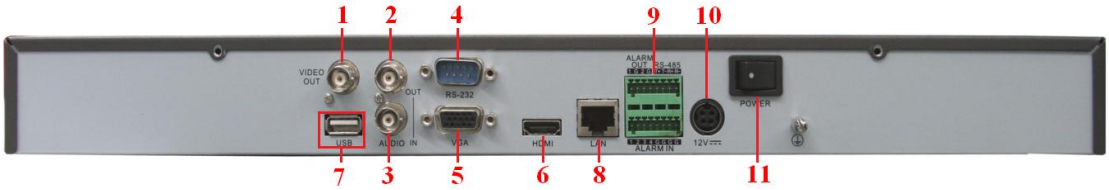


LTN7732

No.	Item	Description
1	**VIDEO OUT**	BNC connector for video output.
2	**CVBS AUDIO OUT**	BNC connector for audio output. This connector is synchronized with CVBS video output.
	VGA AUDIO OUT	BNC connector for audio output. This connector is synchronized with VGA video output.
3	**LINE IN**	BNC connector for audio input.
4	**RS-232 Interface**	Connector for RS-232 devices.
5	**VGA**	DB9 connector for VGA output. Display local video output and menu.
6	**HDMI**	HDMI video output connector.
7	**eSATA (Optional)**	Connects external SATA HDD, CD/DVD-RM.
8	**LAN Interface**	Connector for LAN (Local Area Network).
9	**Termination Switch**	RS-485 termination switch. Up position is not terminated. Down position is terminated with 120Ω resistance.
10	**RS-485 Interface**	Connector for RS-485 devices. T+ and T- pins connects to R+ and R- pins of PTZ receiver respectively.
	Controller Port	D+, D- pin connects to Ta, Tb pin of controller. For cascading devices, the first NVR's D+, D- pin should be connected with the D+, D- pin of the next NVR.
	ALARM IN	Connector for alarm input.
	ALARM OUT	Connector for alarm output.
11	**GROUND**	Ground(needs to be connected when NVR starts up).
12	**AC 100V ~ 240V**	AC 100V ~ 240V power supply.
13	**POWER**	Switch for turning on/off the device.
14	**USB interface**	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

LTN7732-P8

No.	Item	Description
1	**VIDEO OUT**	BNC connector for video output.
2	**CVBS AUDIO OUT**	BNC connector for audio output. This connector is synchronized with CVBS video output.
	VGA AUDIO OUT	BNC connector for audio output. This connector is synchronized with VGA video output.
3	**LINE IN**	BNC connector for audio input.
4	**RS-232 Interface**	Connector for RS-232 devices.
5	**VGA**	DB9 connector for VGA output. Display local video output and menu.
6	**HDMI**	HDMI video output connector.
7	**eSATA (Optional)**	Connects external SATA HDD, CD/DVD-RM.
8	**LAN Interface**	Connector for LAN (Local Area Network).
9	**Termination Switch**	RS-485 termination switch. Up position shows the RS-485 is not terminated. Down position shows the RS-485 is terminated with 120Ω resistance.
10	**RS-485 Interface**	Connector for RS-485 devices. T+ and T- pins connects to R+ and R- pins of PTZ receiver respectively.
	Controller Port	D+, D- pin connects to Ta, Tb pin of controller. For cascading devices, the first NVR's D+, D- pin should be connected with the D+, D- pin of the next NVR.
	ALARM IN	Connector for alarm input.
	ALARM OUT	Connector for alarm output.
11	**GROUND**	Ground (needs to be connected when NVR starts up).
12	**AC 100V ~ 240V**	AC 100V ~ 240V power supply.
13	**POWER**	Switch for turning on/off the device.
14	**USB interface**	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
15	**Network Interfaces with PoE function**	Network interface for the cameras and to provide power over Ethernet.



LTN7616

No.	Item	Description
1	**VIDEO OUT**	BNC connector for video output.
2	**AUDIO OUT**	BNC connector for audio output.
3	**AUDIO IN**	BNC connector for audio input. (Also for voice talk)
4	**RS-232 Interface**	Connector for RS-232 devices.
5	**VGA**	DB9 connector for VGA output. Display local video output and menu.
6	**HDMI**	HDMI video output connector.
7	**USB**	Connects USB disks and devices.
8	**LAN Interface**	Connector for LAN (Local Area Network).
9	**RS-485 Interface**	Connector for RS-485 devices. T+ and T- pins connect to R+ and R- pins of PTZ receiver respectively.
	ALARM IN	Connector for alarm input.
	ALARM OUT	Connector for alarm output.
10	**Power Supply**	12VDC power supply.
11	**Power Switch**	Switch for turning on/off the device.

LTN7604-P4, LTN7608-P4

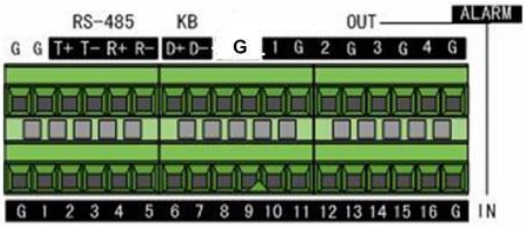
Note: *LTN7608-P8* same as the above one (LTN7604-P4 + 4ch PoE) but has four more internet ports

No.	Item	Description
1	**LAN Network Interface**	Connector for LAN (Local Area Network).
2	**RS-485 Interface**	Connects to RS-485 devices.
3	**Power Supply**	100~240VAC power supply
4	**Power Switch**	Switch for turning on/off the device.
5	**USB Interface**	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	**GND**	Ground (needs to be connected when NVR starts up).
7	**HDMI Interface**	HDMI video output connector.
8	**VGA Output**	DB9 connector for VGA output. Display local video output and menu.
9	**Audio In**	RCA connector for voice talk input
10	**Audio Out**	RCA connector for audio output
11	**Network Interfaces with PoE function**	Network interface for the cameras and to provide power over Ethernet.

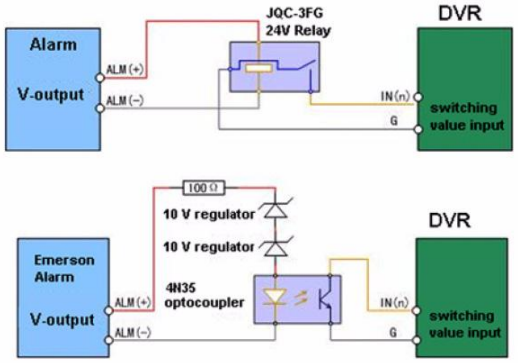
Peripheral Connections

Connecting to Alarm Input / Output Device

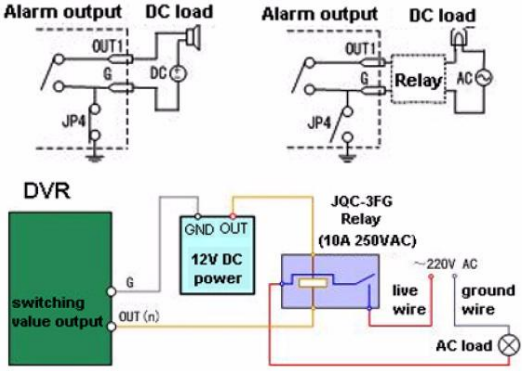
The alarm input/output interface of the NVR is shown as below:



The alarm input is an open/closed relay. If the input is not an open/closed relay, follow the connection diagram below:



To connect to an AC/DC load, use the following diagram:



For DC load, JP4 can be used within the limit of 12V/1A safely. If the interface is connected to an AC load, JP4 should be left open. Use an external relay for safety (as shown in the figure above).

There are 4 jumpers (JP4, JP5, JP6, and JP7) on the motherboard, each corresponding with one alarm output. By default, jumpers are connected. To connect an AC load, jumpers should be removed.

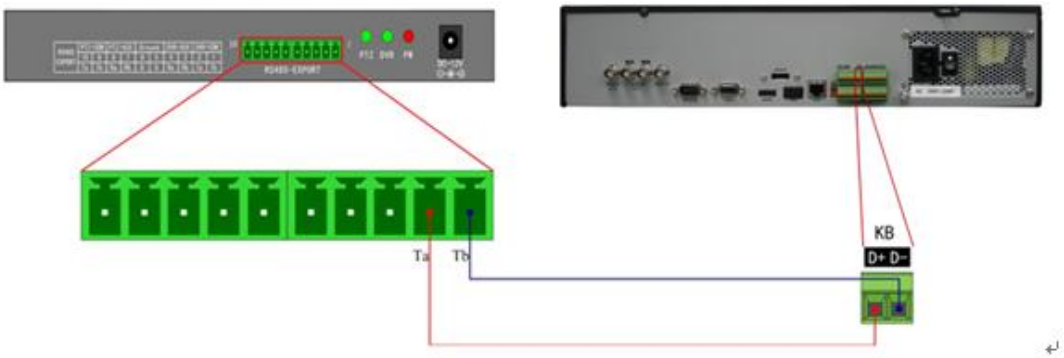
Note: An external relay is needed to prevent electric shock when connecting to an AC load.

Alarm Connection

To connect alarm devices to the NVR:

1. Disconnect *pluggable block* from the ALARM IN /ALARM OUT terminal block.
2. Unfasten stop screws from the *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are in tight.
3. Connect *pluggable block* back into terminal block.

Controller Connection



To connect a controller to the NVR:

1. Disconnect pluggable block from the KB terminal block.
2. Unfasten stop screws from the KB D+, D- *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are in tight.
3. Connect Ta on controller to D+ on terminal block and Tb on controller to D- on terminal block. Fasten stop screws.
4. Connect *pluggable block* back into terminal block.

Note: Make sure both the controller and NVR are grounded.

Specifications

Specification of LTN7732

Model		LTN7732
Video/Audio input	**IP video input**	32-ch
	Two-way audio	1-ch, BNC (2.0 Vp-p, 1kΩ)
Video/Audio output	**Recording resolution**	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
	CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 ×576 (PAL); 704 ×480 (NTSC)
	HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P /50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz
	VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz
	Audio output	2-ch, BNC (Linear, 600Ω)
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
	Synchronous playback	16-ch
Hard disk	**SATA**	4 SATA interfaces for 2 HDDs + 1 DVD-R/W (default), or 4HDDs
	eSATA	1 eSATA interface
	Capacity	Up to 4TB capacity for each HDD
External interface	**Network interface**	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface
	Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (reserved); 1 RS-485 keyboard interface (for special keyboard control)
	USB interface	3 ×USB 2.0
	Alarm in	16
	Alarm out	4
Others	**Power supply**	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz
	Consumption (without hard disk or DVD-R/W)	⩽ 45 W
	Working temperature	-10 ℃ ~ +55 ℃
	Working humidity	10 % ~ 90 %
	Chassis	19-inch rack-mounted 2U chassis
	Dimensions (W × D × H)	445 × 390 ×90 mm
	Weight	≤ 4 Kg (8.82 lb) (without hard disk or DVD-R/W)

Specification of LTN7732-P8

Model		LTN7732-P8		
Video/Audio input	**IP video input**	32-ch		
	Two-way audio	1-ch, BNC (2.0 Vp-p, 1kΩ)		
Video/Audio output	**Recording resolution**	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 ×576 (PAL); 704 ×480 (NTSC)		
	HDMI output	1-ch, resolution: 1920 ×1080P /60Hz, 1920 ×1080P /50Hz, 1600 ×1200 /60Hz, 1280 ×1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz		
	VGA output	1-ch, resolution: 1920 ×1080P /60Hz, 1600 ×1200 /60Hz, 1280 ×1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz		
	Audio output	2-ch, BNC (Linear, 600Ω)		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	16-ch		
Hard disk	**SATA**	4 SATA interfaces for 2 HDDs + 1 DVD-R/W (default), or 4HDDs		
	eSATA	1 eSATA interface		
	Capacity	Up to 4TB capacity for each HDD		
External interface	**Network interface**	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
		8 independent 100 Mbps PoE network interfaces		
	Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (reserved); 1 RS-485 keyboard interface (for special keyboard control)		
	USB interface	3 ×USB 2.0		
	Alarm in	16		
	Alarm out	4		
Others	**Power supply**	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz		
	Consumption (without hard disk or DVD-R/W)	⩽ 35 W	⩽ 40W	⩽ 45 W
	Working temperature	-10 ℃ ~ +55 ℃		
	Working humidity	10 % ~ 90 %		
	Chassis	19-inch rack-mounted 2U chassis		
	Dimensions (W ×D ×H)	445 ×390 ×90 mm		
	Weight	≤ 8 Kg (17.64 lb) (without hard disk or DVD-R/W)		

Specifications of LTN7616

Model		**LTN7616**
Video/Audio input	**IP video input**	16-ch
	Audio in	1-ch, BNC (2.0 Vp-p, 1kΩ) (Two-way audio)
Video/Audio output	**Recording resolution**	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
	CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 ×576 (PAL); 704 ×480 (NTSC)
	HDMI output	1-ch, resolution: 1920 ×1080P /60Hz, 1920 ×1080P /50Hz, 1600 ×1200 /60Hz, 1280 ×1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz
	VGA output	1-ch, resolution: 1920 ×1080P /60Hz, 1600 ×1200 /60Hz, 1280 ×1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz
	Audio output	1-ch, BNC (Linear, 600Ω)
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
	Synchronous playback	16-ch
Hard disk	**SATA**	2 SATA interfaces
	Capacity	Each interface supports up to 4TB capacity for recording
External interface	**Network interface**	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface
	Serial interface	1 RS-232 interface (for parameters configuration, maintenance, transparent channel); 1 RS-485 interface (reserved);
	USB interface	2 ×USB 2.0
	Alarm in	4
	Alarm out	2
Others	**Power supply**	12 VDC
	Consumption	≤ 13 W (without hard disk or DVD-R/W)
	Working temperature	-10 ℃ ~ +55 ℃
	Working humidity	10 % ~ 90 %
	Chassis	19-inch rack-mounted 1U chassis
	Dimensions (W ×D ×H)	445 ×261 ×44.5 mm
	Weight	≤ 4 Kg (8.82 lb) (without hard disk or DVD-R/W)

Specifications of LTN7604-P4, LTN7608-P4 and LTN7608-P8

Model		**LTN7604-P4**	**LTN7608-P4** **LTN7608-P8**
Video/Audio input	**IP video input**	4-ch, 720P	8-ch, 720P
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)	
Video/Audio output	**Decoding resolution**	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 ×720 /60Hz, 1024 ×768 /60Hz	
	CVBS	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 ×576 (PAL); 704 ×480 (NTSC) (optional)	
	Audio output	1-ch, RCA (Linear, 1kΩ)	
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
	Synchronous playback	4-ch, 4CIF (Real-time) 4-ch, 720P / 2-ch, 1080P / 1-ch, 5MP (Non-real-time)	8-ch, 4CIF (Real-time) 8-ch, 720P / 4-ch, 1080P / 2-ch, 5MP (Non-real-time)
Hard disk	**SATA**	2 SATA interfaces for 2 HDDs	
	Capacity	Up to 4TB for each disk	
External interface	**Network interface**	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface	
		4 independent 10 /100 Mbps PoE Ethernet interfaces for LTN7608-P4, 8independent 10 /100 Mbps PoE Ethernet interfaces for LTN7608-P8	
	Serial interface	1 RS-485 half-duplex interface	
	USB interface	2 ×USB 2.0	
	Alarm in/out	4/1 (optional)	
Others	**Power supply**	100~240VAC, 47~63Hz, 3A	
	Consumption	≤ 15 W (without hard disk)	
	Working temperature	-10 ℃ ~ +55 ℃	
	Working humidity	10 % ~ 90 %	
	Chassis	19-inch rack-mounted 1U chassis	
	Dimensions (W ×D ×H)	445 ×290 ×45mm	
	Weight	≤ 2 Kg (without hard disk)	

HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

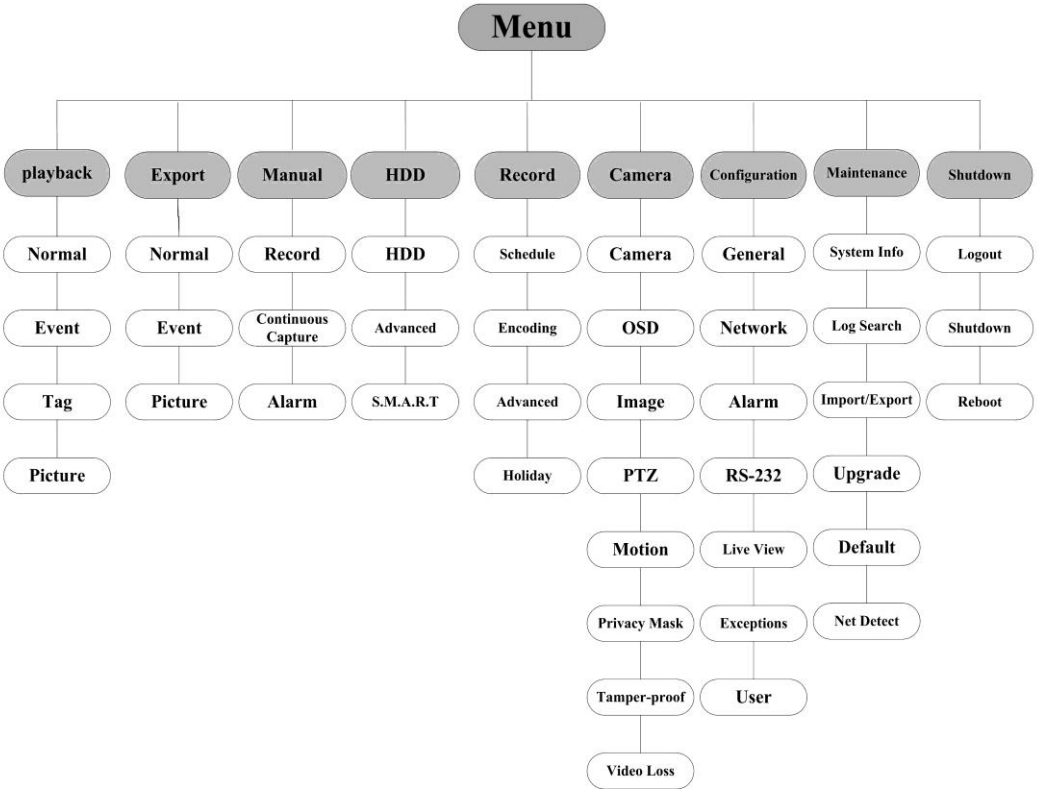
Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M

Note: Please note that supplied values for storage space used is just for reference. Storage space used is estimated by formulas and may have some deviation from actual value.

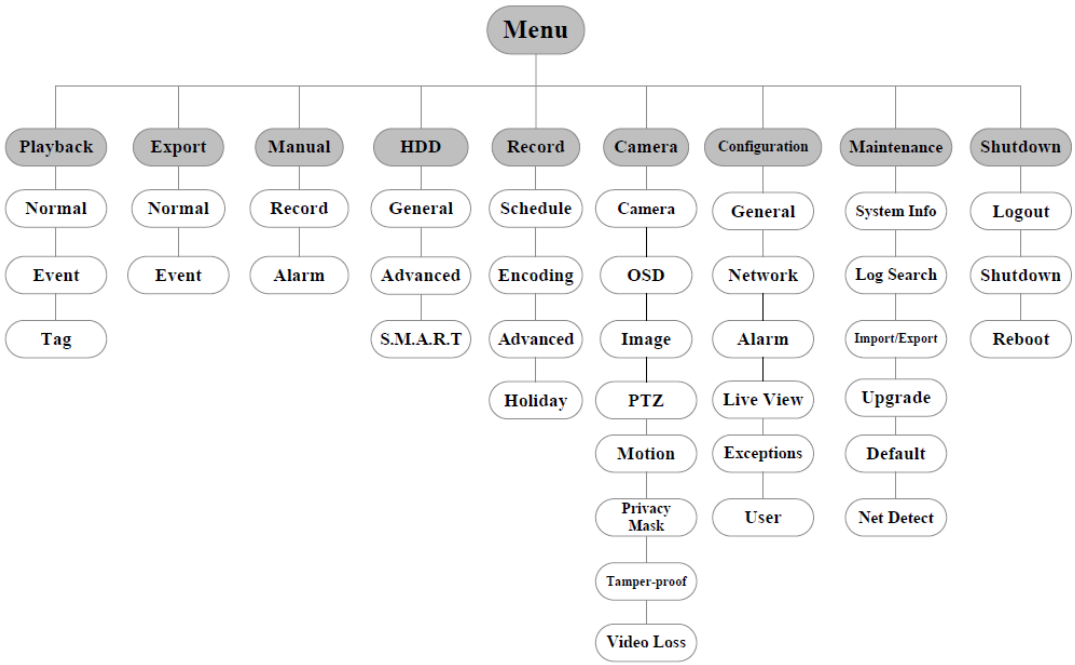
Menu Operation

Menu Structure

The menu structure of the LTN7732, LTN7616 and LTN7732-P8 Series NVR:



The menu structure of LTN7604-P4, LTN7608-P4 and LTN7608-P8 Series NVR:



Startup and Shutdown

Proper startup and shutdown procedures are crucial to expanding the life of the NVR.

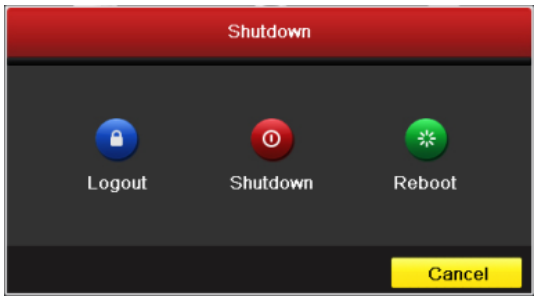
To start your NVR:

1. Check the power supply is plugged into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device. The Power indicator LED on the front panel should be red, indicating the device gets the power supply.
2. Press the POWER button on the front panel. The Power indicator LED should turn green. The unit will begin to start. For LTN7604-P4, LTN7608-P4, LTN7608-P8 series NVR, turn on the power switch on the rear panel will start the DVR immediately.

To shut down the NVR:

1. Enter the Shutdown menu.

   Menu > Shutdown

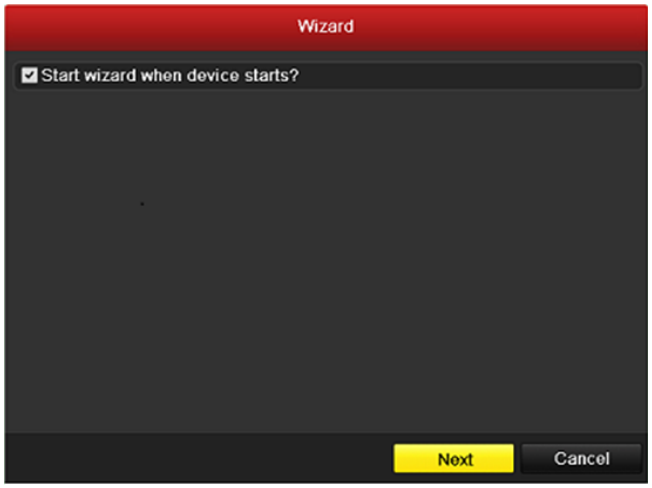


Shutdown Menu

2. Select the **Shutdown** button.
3. Click the **Yes** button.

Using the Start Wizard

By default, the Setup Wizard starts once the NVR has loaded, as shown in Figure below.

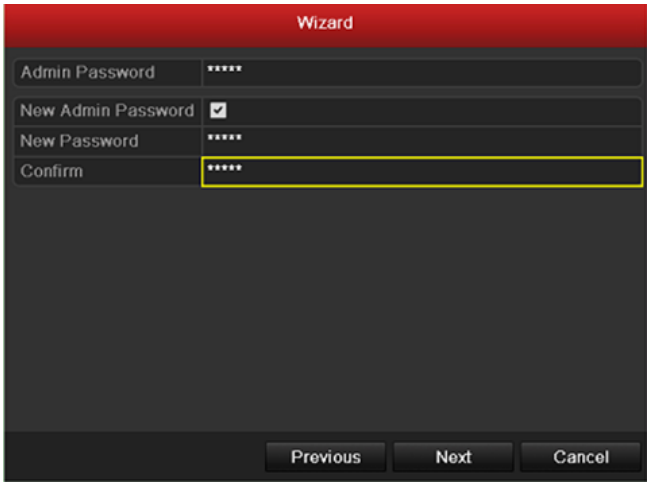


Start Wizard Interface

Operating the Setup Wizard:

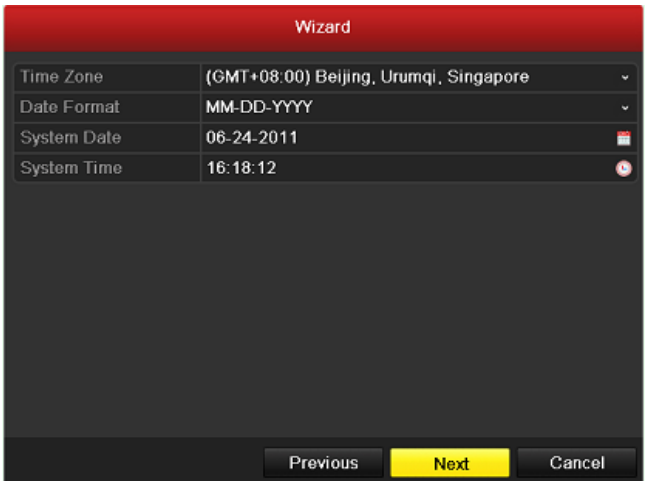
1. The Setup Wizard can walk you through some important settings of the NVR. If you don't want to use the Setup Wizard at that moment, click the **Cancel** button. You can also choose to use the Setup Wizard next time by leaving the "Start wizard when NVR starts?" checkbox checked.

2. Click **Next** button on the Wizard window to enter the **Login** window.



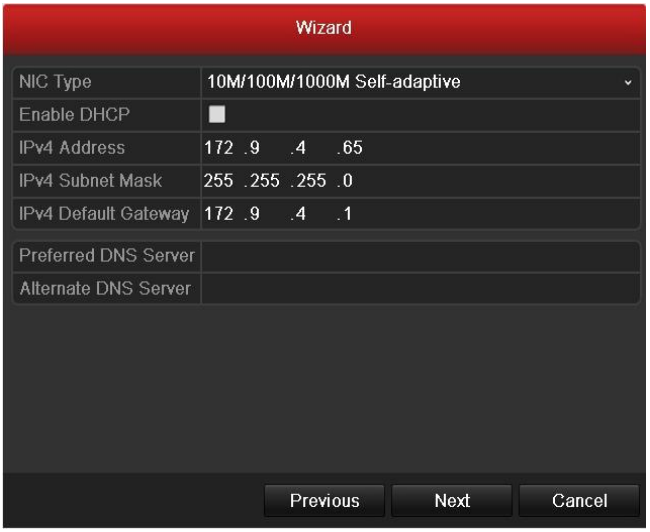
Login Window

3. Enter the admin password. By default, the password is 12345.
4. To change the admin password, check the **New Admin Password** checkbox. Enter the new password and confirm the password in the given fields.
5. Click the **Next** button to enter the date and time settings window.

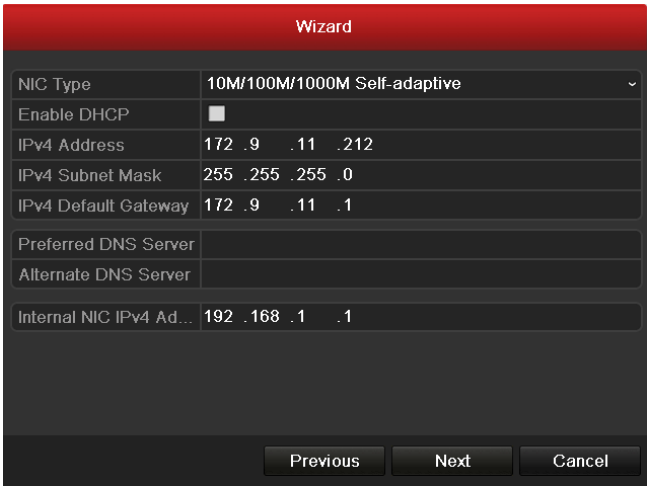


Date and Time Settings

6. After the time settings, click **Next** button which takes you back to the Network Setup Wizard window.



LTN7616, LTN7732

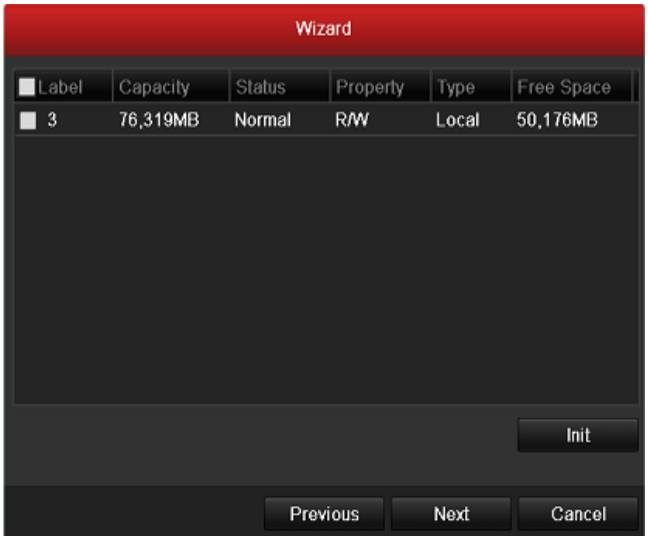


LTN7604-P4, LTN7608-P4, LTN7608-P8 and LTN7732-P8

Network Configuration

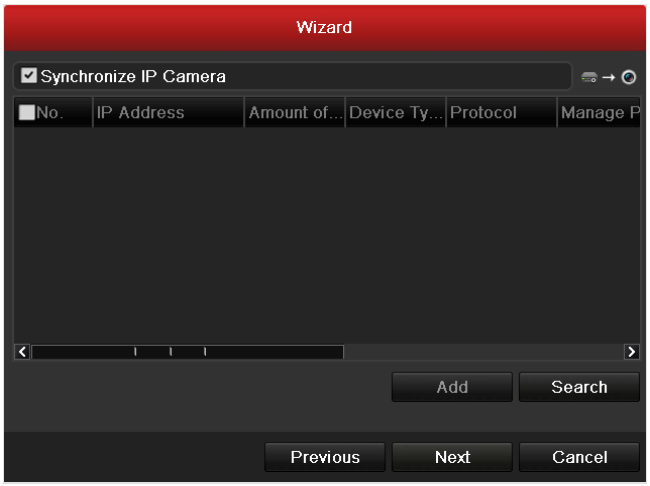
Note: for LTN7604-P4, LTN7608-P4, LTN7608-P8 and LTN7732-P8 series NVR, the internal NIC IPv4 address should be configured for the cameras connecting to the PoE network interface or the built-in switch of the NVR.

7. Click Next button after you configured the network parameters, which takes you to the HDD Management window.



HDD Management

8. To initialize the HDD, click the Init button. Initialization removes all the data saved in the HDD.
9. Click Next button. You enter the Adding IP Camera interface.
10. Click Search to find online IP Camera. Select the IP camera to be added, and click the Add button.



Search for IP Cameras

11. Click Next button. Configure the recording for the searched IP Cameras.

Record Settings

12. Click Copy to copy the settings to other channels.

Copy Record Settings

13. Click OK to complete the startup Setup Wizard.

Live View

Some icons are provided on screen in Live View mode to indicate different camera status. These icons include:

Live View Icons

In the live view mode, there are icons at the right top of the screen for each channel, showing the status of the record and alarm in the channel, so that you can find problems as soon as possible.

 Alarm (video loss, tampering, motion detection or sensor alarm).

 Record (manual record, schedule record, motion detection or alarm triggered record)

 Alarm & Record

Adding and Configuring IP Cameras

You should add and configure the online IP cameras to enable the live view and recording function.

Adding IP Cameras

You can search and add the online IP cameras by following the startup wizard, or according to the following steps.

Steps:

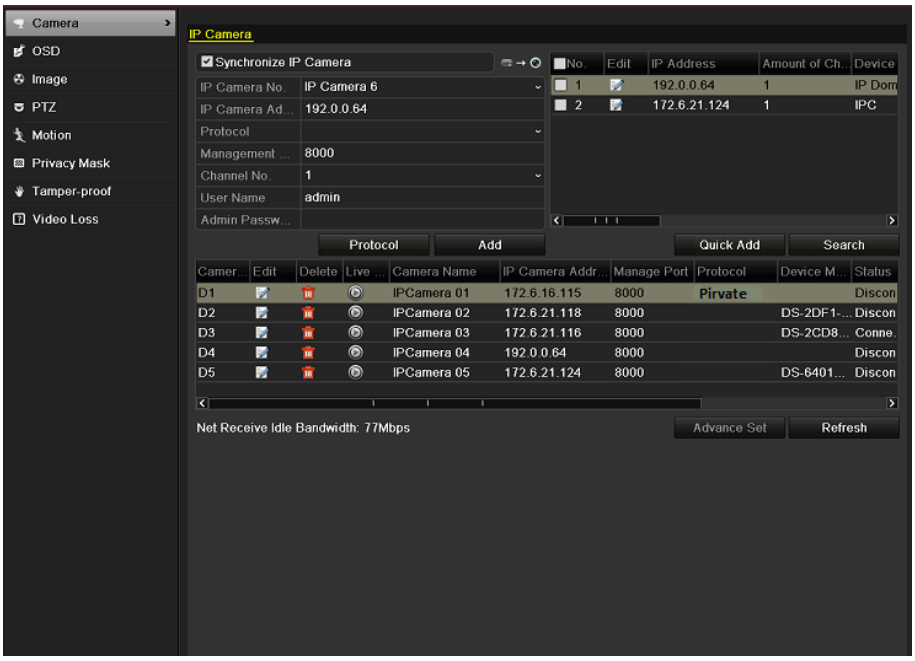
1. Enter the Camera Management interface.

   Menu> Camera> Camera

Main Menu

2. To add the online cameras with same network segment:

   1) Click **Search** to search the online cameras.



Camera Settings Interface

   2) Check the checkbox of certain cameras to be added.

   3) Click **Quick Add** to add the camera.

3. To add other IP cameras:

   1) On the left side of the interface, you can enter the IP address, protocol, management port, and other

information of the IP camera to be added.

2) Click **Add** to add the camera.

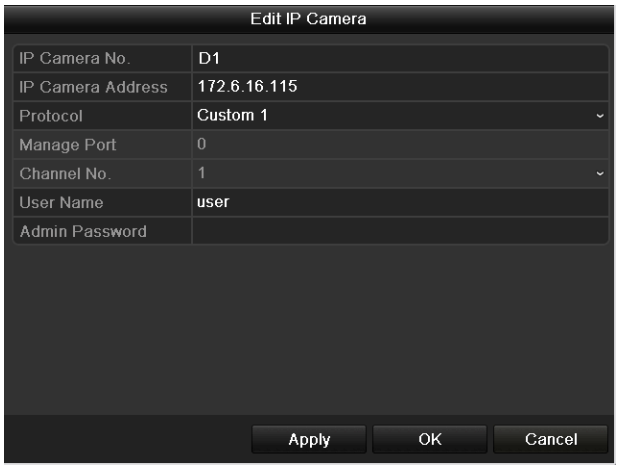
Note: If you check the Synchronize IP Camera checkbox, the default settings of the NVR for the IP camera is applied to the added camera.

Configuring Basic Parameters of IP Cameras

After the adding of the IP cameras, the basic information of the camera lists in the page, and you can configure the basic setting of the IP cameras.

Steps:

1. Click the icon to edit the parameters; you can edit the IP address, protocol and other parameters.

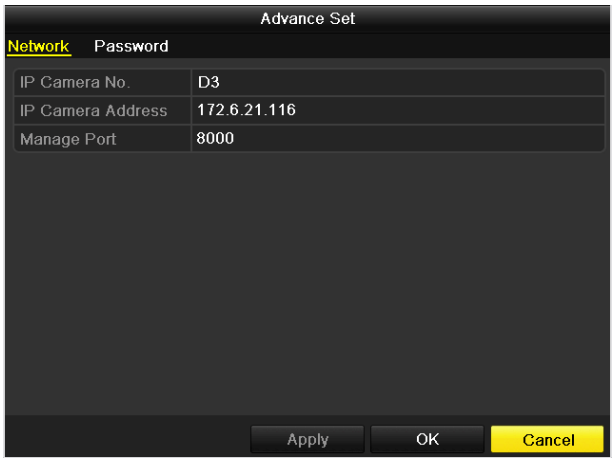


Edit the Parameters

2. Click apply to save the settings and click OK to exit the editing interface.

To edit more parameters:

1. Click the Advance Set icon.



Network Configuration of the Camera

2. You can edit the network information and the password of the camera.
3. Click **Apply** to save the settings and click **OK** to exit the interface.

Explanation of the icons:

Edit basic parameters of the camera	Delete the IP camera	Get the live view of the camera

PTZ Control

Follow the procedure to set the parameters for PTZ. The configuring of the PTZ parameters should be done before you set the PTZ camera.

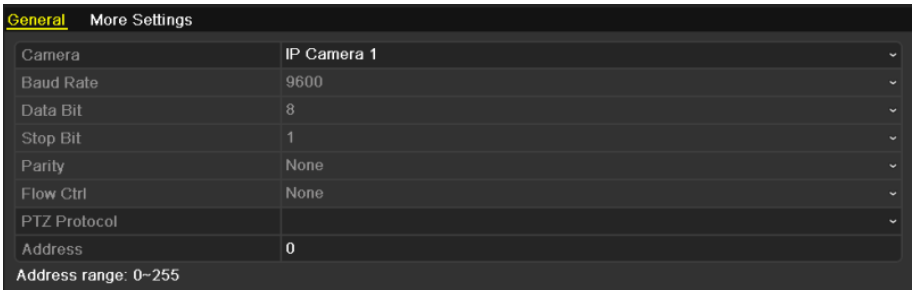
Before you start, please check that the PTZ and the NVR are connected properly through RS-485 interface.

PTZ Settings

Steps:

1. Enter the PTZ Settings interface.

   Menu >Camera> PTZ



Camera Settings Interface

2. Choose the camera for PTZ setting next to **Camera** label.
3. Enter the parameters of the PTZ camera.

   Note: All the parameters should be exactly the same as the PTZ camera parameters.
4. Click **Copy** if you want to configure same settings to other PTZ cameras.
5. Click the **Apply** button to save and exit the interface.

PTZ Control

In the Live View mode, you can press the PTZ Control button on the front panel or on the remote, or choose the PTZ Control icon  to enter the PTZ toolbar.

PTZ Control Bar

Description of the PTZ toolbar icons

Icon	Description	Icon	Description	Icon	Description
	Direction button and the auto-cycle button		Zoom+, Focus+, Iris+		Zoom-, Focus-, Iris-
	The speed of the PTZ movement		Light on/off		Wiper on/off
	3D-Zoom		Image Centralization	Preset	Preset
Patrol	Patrol	Pattern	Pattern		Menu
	Previous item		Next item		Start pattern/patrol
	Stop the patrol or pattern movement		Minimize windows		Exit

Playback

Play back the record files of a specific channel in the live view menu. Channel switch is supported.

Instant playback by channel

Choose a channel under live view using the mouse and click the button in the shortcut operation menu.

Note: Only record files recorded during the past five minutes on this channel will be played back.

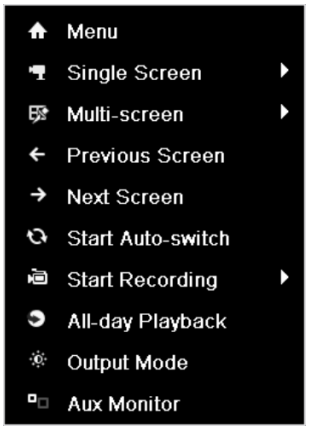
Instant Playback Interface

All-day Playback by channel

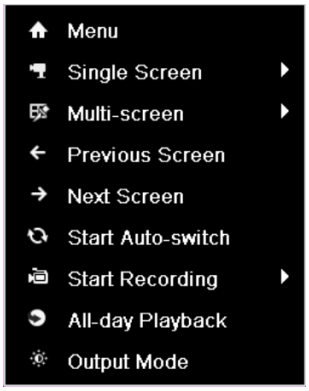
Steps:

1. Enter the All-day Playback menu.

   Mouse: right click a channel in live view mode and select All-day Playback from the menu.



LTN7616, LTN7732 and LTN7732-P8



LTN7604-P4, LTN7608-P4 and LTN7608-P8

Right-click Menu under Live View

Front Panel: press PLAY button to play back record files of the channel under single-screen live view. Under multi-screen live view, record files of the top left channel (not masked) will be played back.

Note: pressing numerical buttons will switch playback to related channels during playback process.

2. Playback management.

The toolbar in the bottom part of Playback interface can be used to control playing process.

All-day Playback Interface

The channel and time selection menu will display by moving the mouse to the right of the playback interface. Just tick the channel or channels if you want to switch playback to another channel or execute simultaneous playback of multiple channels.

All-day Playback Interface with Channel List

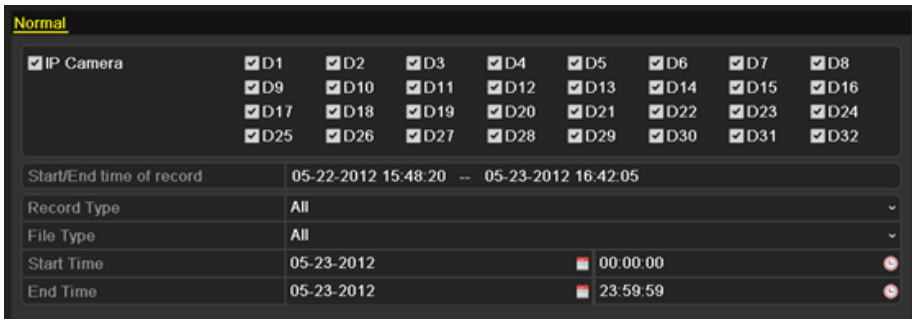
Backup

Recorded files can be backed up to various devices, such as USB flash drives, USB HDDs or a DVD writer.

Steps:

1. Enter Video Export interface.

   Choose the channel(s) you want to back up and click on the Quick Export button.



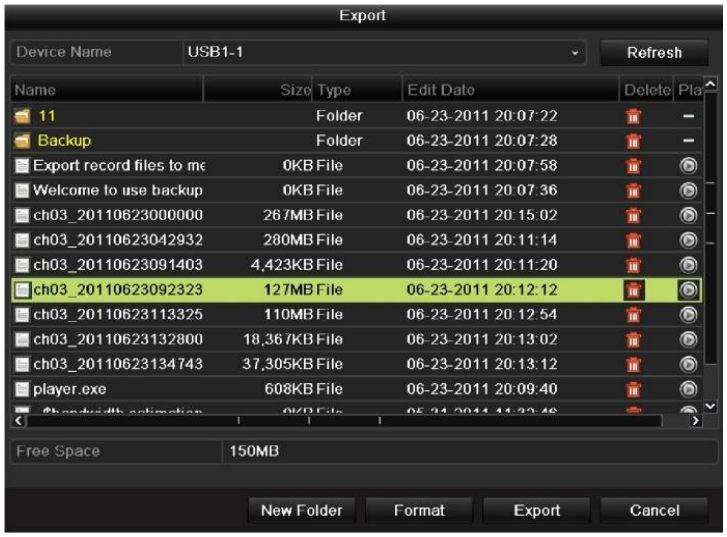
Quick Export Interface

2. Enter Export interface, choose backup device and press **Export** button to start exporting.

Quick Export using USB1-1

3. Check backup result.

Choose the record file in Export interface and press button to check it.



Checkup of Quick Export Result Using USB1-1

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