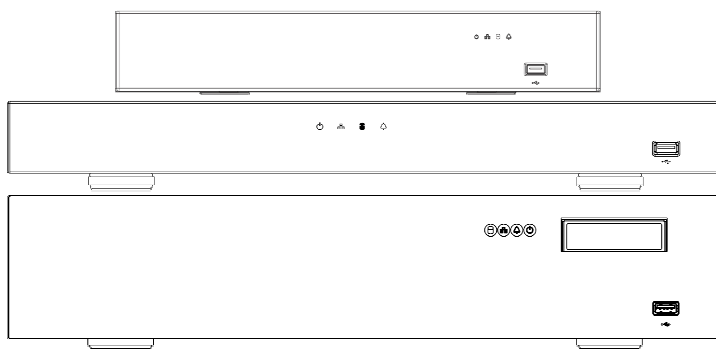


H.264 5-Megapixel NVR Series

Quick Guide



About this document

This document includes instructions for basic operating the H264 5-Megapixel Series Network Video Recorder.

Electromagnetic Compatibility (EMC)

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Re-orient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment to an outlet on a different circuit to the receiver. Consult your dealer or an experienced radio/TV technician for help. Shielded (STP) network cables must be used with this unit to ensure compliance with EMC standards.

Professional 2U 19" NVR / Lite 16CH NVR has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Professional 1U 19" NVR has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his/her own expense will be required to take whatever measures may be required to correct the interference.

Features

- Standalone NVR
- Supports 5-megapixel and 1080p 60 FPS H.264 IP cameras
- Up to 6 Mbps incoming network throughput
- Full HD 1080p HDMI and VGA output
- Compatible with iOS and Android devices
- Metadata can be embedded into videos
- Supports Setup Wizard
- HTML5 streaming multiple browser supported
- P2P easy remote access supported

Caution

- Do not drop or strike the equipment
- Do not install the equipment near naked flames or heat sources
- Do not expose this unit to rain, moisture, smoke or dusty environments
- Do not cover the opening of the unit with cloth or plastic or install this unit in a poorly-ventilated place. Allow 10 cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as detection of smoke, strange smell, or malfunctioned screen whilst power is turned on
- Do not touch the power connection with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker system, etc.
- All connection cables must be grounded properly

CAUTION

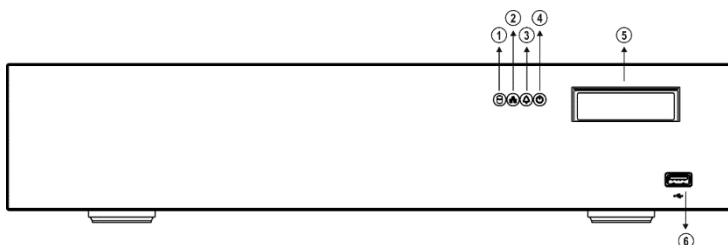
RISK OF EXPLOSION IF BATTERY IS REPLACED WITH AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS



Product Overview

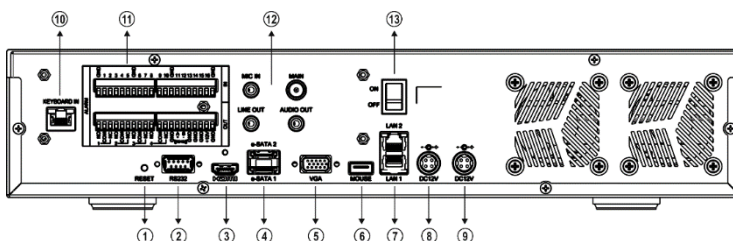
Professional 2U 19" 8Bay Non-RAID NVR

Front View



- | |
|--|
| 1. HDD LED, green, blinking, HDD activity indicator |
| 2. LAN LED, green, LAN activity indicator |
| 3. ALARM LED, red, blinking, indicator of triggered alarms |
| 4. POWER LED, amber, power on/off indicator |
| 5. OLED, system activity information indicator |
| 6. USB port |

Rear View



- | | |
|----------------------------|---------------------------------------|
| 1. Hardware reset button | 8. Primary power socket |
| 2. RS-232 connector | 9. Secondary power socket |
| 3. HDMI output connector | 10. Keyboard-in connector |
| 4. eSATA connector | 11. DI/DO, RS-485, and DC 12 V output |
| 5. VGA output connector | 12. MIC IN, LINE OUT, AUDIO OUT, MAIN |
| 6. USB port | 13. Power switch |
| 7. RJ-45 Gigabit connector | |

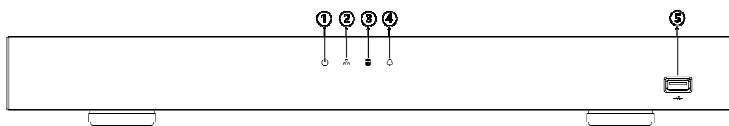
Note:

When using the redundant power function, a one-minute pause is recommended after two consecutive power switching to prevent damaging the transformer.

The total current of external devices connected to the 12 V power output must be under 1 A.

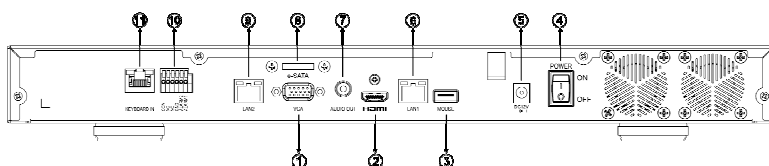
Professional 1U 19" 4Bay Non-RAID NVR

Front View



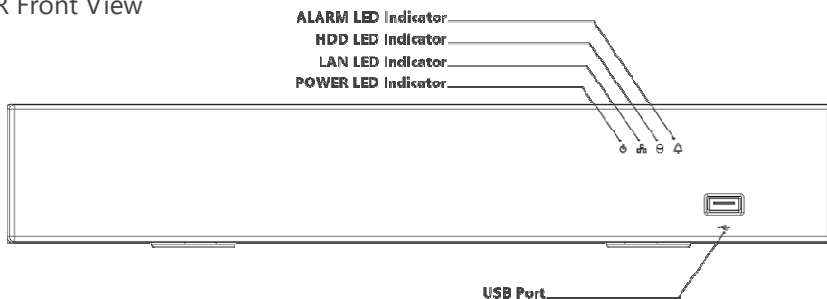
- | |
|--|
| 1. POWER LED, amber, power on/off indicator |
| 2. LAN LED, green, LAN activity indicator |
| 3. HDD LED, green, blinking, HDD activity indicator |
| 4. ALARM LED, red, blinking, indicator of triggered alarms |
| 5. USB port |

Rear View

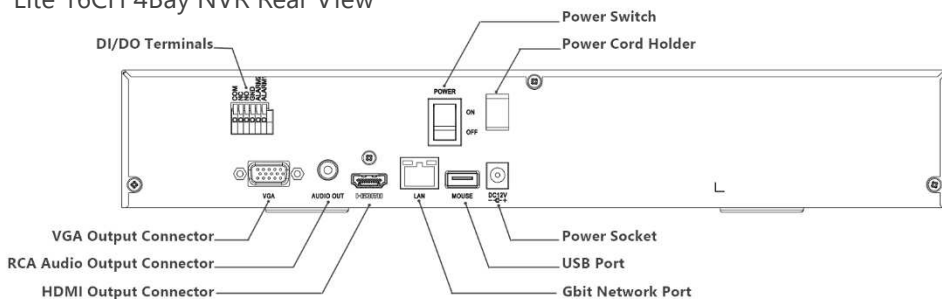


1. VGA output connector	8. eSATA connector
2. HDMI output connector	9. RJ-45 Gigabit connector
3. USB port	10. DI/DO
4. Power switch	11. Keyboard-in connector
5. Power socket	
6. RJ-45 Gigabit connector	
7. AUDIO OUT	

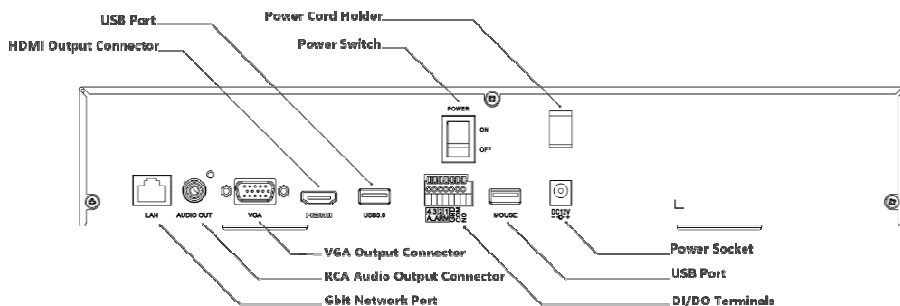
Lite NVR Front View



Lite 16CH 4Bay NVR Rear View



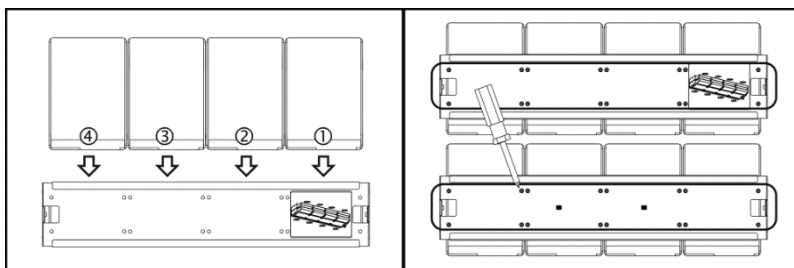
Lite 16CH 2Bay NVR Rear View



Hard Drives Installation Instructions

Professional 2U 19" 8Bay Non-RAID NVR Installation

Remove the upper casing and loosen the screws on both sides of the hard drive bracket to remove it. Install hard drives and tighten the hard drive screws as instructed in the image below.

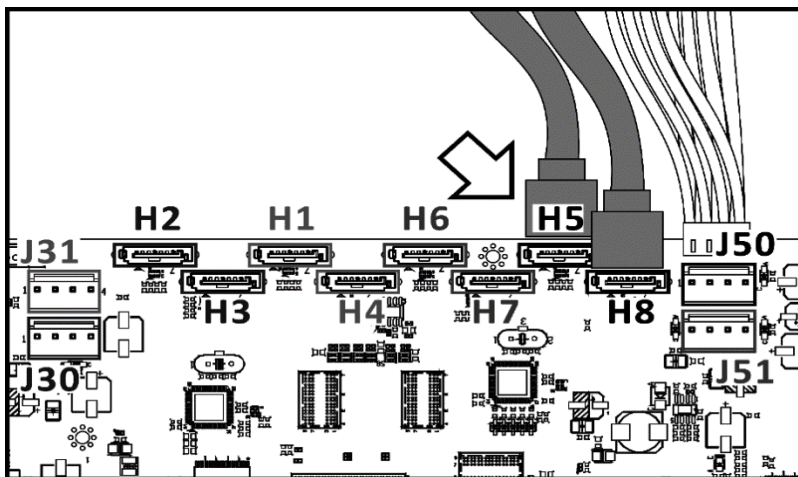


Screws loosened

Screws tightened

Properly connect the SATA cables and power cables to the connectors following the instruction below:

H2&H3 > J30, H1&H4 > J31, H5&H8 > J50, H6&H7 > J51



Finally, complete the hard drive installation by closing the upper casing and tightening the screws.

Beginning using the NVR

You will see the following screen through HDMI or VGA connection once you power on the NVR:



The information shown on the top of the screen is described as followed:

0.00 / 1000 (100) Mbps:

The left side of the slash is the combined transmission rate of all channels, and the right side your network speed.

HDD 1 (2):

Shows the current number of hard drive being used for recording and the storage capacity used.

P   :

Shows the power source used currently.

Note: This information is available depending on models.

Move your cursor slightly to display the NVR controls (as shown in the image below):



At the upper-left corner of the screen is the NVR controls, which are, from left to right:



NVR SETTINGS,



FREEZE,



ALARM EVENT,



PLAYBACK/BACKUP ,



SCHEDULE, and

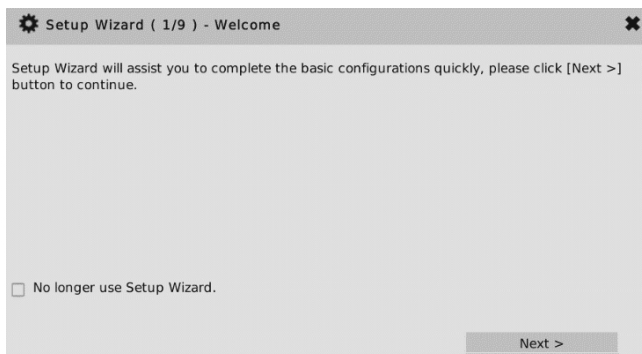


MANUAL Recording.



NVR SETTINGS

If you access the **NVR SETTINGS** for the first time, you will see **Setup Wizard** on the screen as below, which provides you with quick configurations for the NVR, including language, password, date, time, storage, network, P2P, and camera. Please follow the instructions to finish necessary setup and start recording. To prevent the wizard from appearing again, be sure to check **No longer use Setup Wizard**. To run **Setup Wizard** manually, go to **NVR SETTINGS > SYSTEM > MAINTENANCE**, and click **Run** to start **Setup Wizard**.



FREEZE

Click to freeze the real-time video, and the icon will be highlighted in blue when the video is frozen.



ALARM EVENT

Click to enter the **ALARM EVENT** screen, where the options include **MOTION/SENSOR/MANUAL EVENT**.

Then, click the drop-down menu at the top to sort the events by date or channel. Double-click an event log of your choosing, or choose an event before clicking **Playback** at the upper-right corner of the screen to view or back up the selected video clip. Click any event before choosing USB or E-mail to export the video to a storage device or send notification email to a pre-determined email address.



PLAYBACK/BACKUP

Click to enter the following screen for playback and backup. You can expand and collapse the upper timeline by **YEAR, MONTH, DAY, HOUR, and MINUTE**. On the upper timeline, drag and select the time you want to start playing recorded video; drag from the timeline at the bottom of the screen to select the backup range. For more details, please refer to the NVR user manual in the CD included in the box.



SCHEDULE/MANUAL RECORDING

Indicates whether the current recording setting is scheduled recording or manual recording. Click the icon to switch.

Below shows the controls at the bottom of the screen:



Indicates whether the current split-screen controls are for HDMI or VGA.

Note: This information is available depending on models.

Below shows the controls for the number of split-screens:



Controls for the number of split-screens.



Click to broadcast your message through a microphone.



Click to activate the sequential mode, which will show videos channels in the order you specify.



Click to activate a specific DO output.

Note: This function is available depending on models.

BASIC NVR SETTINGS

If you skipped **Setup Wizard**, you need to change some basis settings before starting to record.

Set up Display Language

In **NVR SETTINGS**, click the gear icon at the upper-right corner to switch system display language.

Format Hard Drives

In **NVR SETTINGS** > **SYSTEM** > **STORAGE** > **HDD MGT.**, select the device to format and click **Format**.

Adjust Date Time

In **NVR SETTINGS** > **SYSTEM** > **TIME**, make sure system time is correctly set.

Configure Network Environment

In **NVR SETTINGS** > **NETWORK** > **GENERAL**, enter the required information such as IP Mode, IP Address, Subnet Mask, Default Gateway, Primary DDNS, etc. according to your network environment.

Connect to Cameras

In **NVR SETTINGS** > **CAMERA** > **GENERAL**, click **WS-Discovery** to start searching for cameras in the local network. Select a camera from list, and click **Select** to show the camera feed on the corresponding channel. Click **Apply** for the changes to take effect.

Start to Record

To activate continuous recording, make sure the desired channel's **Record Mode** in **NVR SETTINGS** > **RECORD** > **GENERAL** is set to **Schedule**; **Schedule Table** in **NVR SETTINGS** > **RECORD** > **SCHEDULE** is set to **Always**; **Overwritten** in **NVR SETTINGS** > **RECORD** > **ADVANCE** is set to **On**.

Note: For more details, please refer to the NVR user manual in the CD included in the box.

DISTRIBUTOR :