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> [LTS LTN6216N-P16 16-Channel 4K PoE Network Video Recorder User Manual](#)

LTS LTN6216N-P16

LTS LTN6216N-P16 16-Channel 4K PoE Network Video Recorder User Manual

Model: LTN6216N-P16

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the LTS LTN6216N-P16 16-Channel 4K PoE Network Video Recorder (NVR). This NVR is designed for professional surveillance systems, supporting 4K resolution and H.265 encoding technology for efficient video storage and high-quality monitoring. Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. SAFETY INFORMATION

- **Power Supply:** Use only the power adapter specified for this device. Ensure the power voltage is stable and matches the NVR's requirements (100-240 V AC, 50/60 Hz).
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the NVR to prevent overheating.
- **Environment:** Avoid placing the NVR in extreme temperatures, high humidity, dusty environments, or direct sunlight. Keep away from water and other liquids.
- **Installation:** Install the NVR on a stable, level surface. Avoid placing heavy objects on top of the unit.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in your package. If any items are missing or damaged, contact your vendor immediately.

- LTS LTN6216N-P16 NVR Unit
- Power Adapter/Cable
- USB Mouse
- Screws for HDD Installation
- Quick Start Guide (or similar documentation)

4. PRODUCT OVERVIEW

4.1. Dimensions

The following diagram illustrates the physical dimensions of the LTN6216N-P16 NVR unit.



Image 4.1: Top and side view of the NVR showing dimensions in millimeters and inches. The unit measures approximately 375.0 mm (14.76 inches) in width and 53.0 mm (2.09 inches) in height. The depth is approximately 327.5 mm (12.89 inches).

4.2. Front and Rear Panels

Familiarize yourself with the ports and indicators on the NVR's panels.



Image 4.2: Rear panel of the NVR with numbered ports and their descriptions.

1. **Power Input Port:** Connects to the AC power supply.
2. **Power Switch:** Turns the NVR unit on or off.
3. **PoE Ports (16x):** Connect IP cameras directly via Ethernet cables, providing both power and data.
4. **NO1 C1/CTRL P:** Control port (specific function may vary, refer to advanced settings).
5. **HDMI Port:** Connects to a monitor for high-definition video output.
6. **VGA Port:** Connects to a monitor for standard video output.
7. **USB Port:** For connecting a USB mouse, external storage, or for firmware upgrades.
8. **RS232 Port:** Serial communication port for advanced control or debugging.
9. **Network Port:** Connects the NVR to your local area network (LAN) for remote access and internet connectivity.
10. **AUDIO OUT, RCA Connector:** Audio output port for connecting to external speakers.
11. **AUDIO IN, RCA Connector:** Audio input port for connecting an external microphone.

5. SETUP

5.1. Hardware Installation

1. Hard Drive Installation:

The NVR supports up to two HDDs. Power off the NVR before installing or removing hard drives. Open the NVR casing, secure the hard drives using the provided screws, and connect the SATA data and power cables. Close the casing securely.

2. Connect Monitor:

Connect a monitor to the NVR's HDMI or VGA port using an appropriate cable.

3. Connect Mouse:

Plug the USB mouse into one of the NVR's USB ports.

4. Connect Network:

Connect an Ethernet cable from your router/switch to the NVR's Network Port (9).

5. Connect IP Cameras:

Connect your IP cameras to the NVR's PoE Ports (3) using Ethernet cables. The NVR will provide power to the cameras directly.

6. Connect Power:

Connect the power adapter to the Power Input Port (1) and then plug it into a power outlet. Turn on the NVR using the Power Switch (2).

5.2. Initial Configuration

Upon first boot, the NVR will guide you through an initial setup wizard. Follow the on-screen prompts to:

- Set up an administrator password.
- Configure network settings (DHCP or static IP).
- Initialize hard drives for recording.
- Search for and add connected IP cameras.
- Set date and time.

6. OPERATING

6.1. User Interface Navigation

The NVR features a new 4.0 user interface. Use the connected USB mouse to navigate through menus, select options, and control camera views. Right-click to access the main menu.

6.2. Recording Management

- **Recording Schedules:** Access the recording settings to configure continuous, motion-triggered, or scheduled recording for each camera.
- **Motion Detection:** Enable and configure motion detection zones and sensitivity for specific cameras to trigger recording or alarms.
- **Smart H.265+:** The NVR supports Smart H.265+ encoding, which optimizes video compression to save storage space while maintaining video quality.

6.3. Video Playback

To review recorded footage:

1. From the main menu, select "Playback".
2. Choose the camera(s) and date/time range you wish to review.
3. Use the playback controls (play, pause, fast forward, rewind) to navigate through the footage.
4. The NVR supports multi-channel playback for simultaneous review of multiple camera feeds.

6.4. Remote Access

The NVR supports P2P remote surveillance and video playback on mobile devices.

- **Mobile App:** Download the official mobile application (e.g., LTS Connect or similar) from your device's app store. Register an account and add your NVR by scanning its QR code or entering its serial number.
- **Web Browser:** Access the NVR's web interface by entering its IP address into a web browser (e.g., Chrome, Firefox, IE).

7. MAINTENANCE

7.1. Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed via USB or through the NVR's web interface/mobile app.

7.2. Hard Drive Management

Monitor the health and storage capacity of your hard drives. The NVR supports 2 SATA III ports, up to 10 TB for a single HDD. Configure overwriting settings to ensure continuous recording when storage is full.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output on monitor.	Loose HDMI/VGA cable, incorrect input selected on monitor, NVR not powered on.	Check cable connections, ensure monitor is on correct input, verify NVR power.
Cameras not displaying.	Camera not powered, network issue, incorrect camera IP settings, camera not added to NVR.	Check camera power/PoE connection, verify network cables, ensure cameras are added and configured correctly in NVR settings.
Cannot access NVR remotely.	Network configuration issues, P2P service disabled, incorrect mobile app settings.	Verify NVR network settings (IP, gateway, DNS), ensure P2P is enabled, check mobile app connection details.
No recording.	Hard drive not initialized, recording schedule not set, HDD full.	Initialize HDD, configure recording schedules, check HDD status and capacity.

9. SPECIFICATIONS

Below are the detailed technical specifications for the LTS LTN6216N-P16 NVR.



Image 9.1: Detailed technical specifications table for the NVR, covering system, performance, AI features, network, playback, storage, external ports, and general parameters.

Feature	Detail
Model Number	LTN6216N-P16
Number of Channels	16
Max. Decoding Capability	8 × 1080p@30 fps
Video Output	HDMI (up to 4K), VGA
Audio Input/Output	RCA (1 In / 1 Out)
HDD Support	2 SATA III ports, up to 10 TB per HDD
PoE Ports	16 ports
Network Interface	1 RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port

Feature	Detail
USB Interface	2 (1x front USB2.0, 1x back USB2.0)
Power Supply	100 V–240 V, 47 Hz–63 Hz, 3.5 A
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Dimensions (W × L × H)	375 mm × 327.5 mm × 53.8 mm (14.76" × 12.89" × 2.12")
Net Weight	2.63 kg (5.80 lb)

For ordering information, refer to the table below:



Image 9.2: Ordering information table showing the model LTN6216N-P16 as a 16 Channel 1U 2HDDs 16PoE Network Video Recorder.

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official LTS Security website. For technical support, troubleshooting assistance, or service inquiries, please contact your authorized LTS dealer or LTS Security customer support.

Manufacturer: LT Security

Website: www.ltsecurityinc.com (Example link, actual link may vary)