Anpviz NVR3116M2-16P-FXX

Anpviz 4K 16-Channel PoE NVR User Manual

Model: NVR3116M2-16P-FXX

Overview	Package Contents	Physical Description	Setup	Operation	Maintenance	Troubleshooting
		Specifications	Warranty & Support			

1. OVERVIEW

The Anpviz 4K 16-Channel PoE Network Video Recorder (NVR) is designed for comprehensive surveillance systems, supporting up to 8MP/4K resolution recording, playback, and live view. This NVR offers Power over Ethernet (PoE) capabilities for direct connection and power supply to compatible IP cameras, simplifying installation. It features H.265 compression technology for efficient storage management and supports smart motion detection for accurate alerts. The NVR is compatible with Anpviz U Series PoE cameras for plug-and-play functionality and can also integrate with other H Series and third-party PoE cameras with manual configuration.

Figure 1: The Anpviz NVR supports a wide range of IP PoE cameras, including 2MP, 3MP, 4MP, 5MP, 6MP, and 8MP models.

2. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact customer support.

- 1x Anpviz 16-Channel 4K Network Video Recorder
- 1x Power Adapter
- 1x USB Mouse
- 1x Ethernet Cable
- 1x Quick Start Guide
- Screws for HDD Installation (HDD not included)

3. PHYSICAL DESCRIPTION AND CONNECTIONS

This section details the physical components and connection ports of the Anpviz NVR.

3.1 Front Panel

The front panel typically includes status indicators (Power, HDD, Network) and a USB port for mouse connection or data backup.

3.2 Rear Panel

The rear panel houses all essential connection ports for power, network, video output, and camera connections.

Figure 2: Rear view of the NVR, illustrating the 16 PoE ports for camera connections, HDMI and VGA outputs for display, USB ports, LAN port for network, and power input.

- **PoE Ports (1-16):** Connect PoE IP cameras directly. These ports provide both power and data.
- **LAN Port:** Connect the NVR to your local network/router for internet access and remote viewing.
- **HDMI Output:** Connect to a monitor or TV for high-definition video output (up to 4K).
- **VGA Output:** Connect to a monitor for standard definition video output.
- **USB Ports:** For connecting a USB mouse, external storage, or for firmware upgrades.

- **Audio In/Out:** For connecting external audio devices (if supported by specific NVR model).
- **Power Input:** Connect the provided power adapter.

4. SETUP

4.1 Hard Drive Installation (HDD Not Included)

The NVR requires a 3.5-inch SATA hard drive for video storage. Ensure the NVR is powered off before installation.

1. Unscrew and remove the top cover of the NVR.
2. Connect the SATA data cable and power cable from the NVR to the corresponding ports on the hard drive.
3. Align the hard drive with the mounting holes at the bottom of the NVR chassis and secure it with the provided screws.
4. Replace the top cover and secure it with screws.

Note: After installation, you may need to format the hard drive through the NVR's system settings for it to be recognized and used for recording.

4.2 Initial Connections

1. **Connect a Monitor:** Use an HDMI or VGA cable to connect the NVR to a monitor or TV.
2. **Connect a Mouse:** Plug the USB mouse into a USB port on the NVR.
3. **Connect to Network:** Connect an Ethernet cable from the NVR's LAN port to your router or network switch.
4. **Connect Power:** Plug the power adapter into the NVR's power input and then into a power outlet. The NVR will power on automatically.
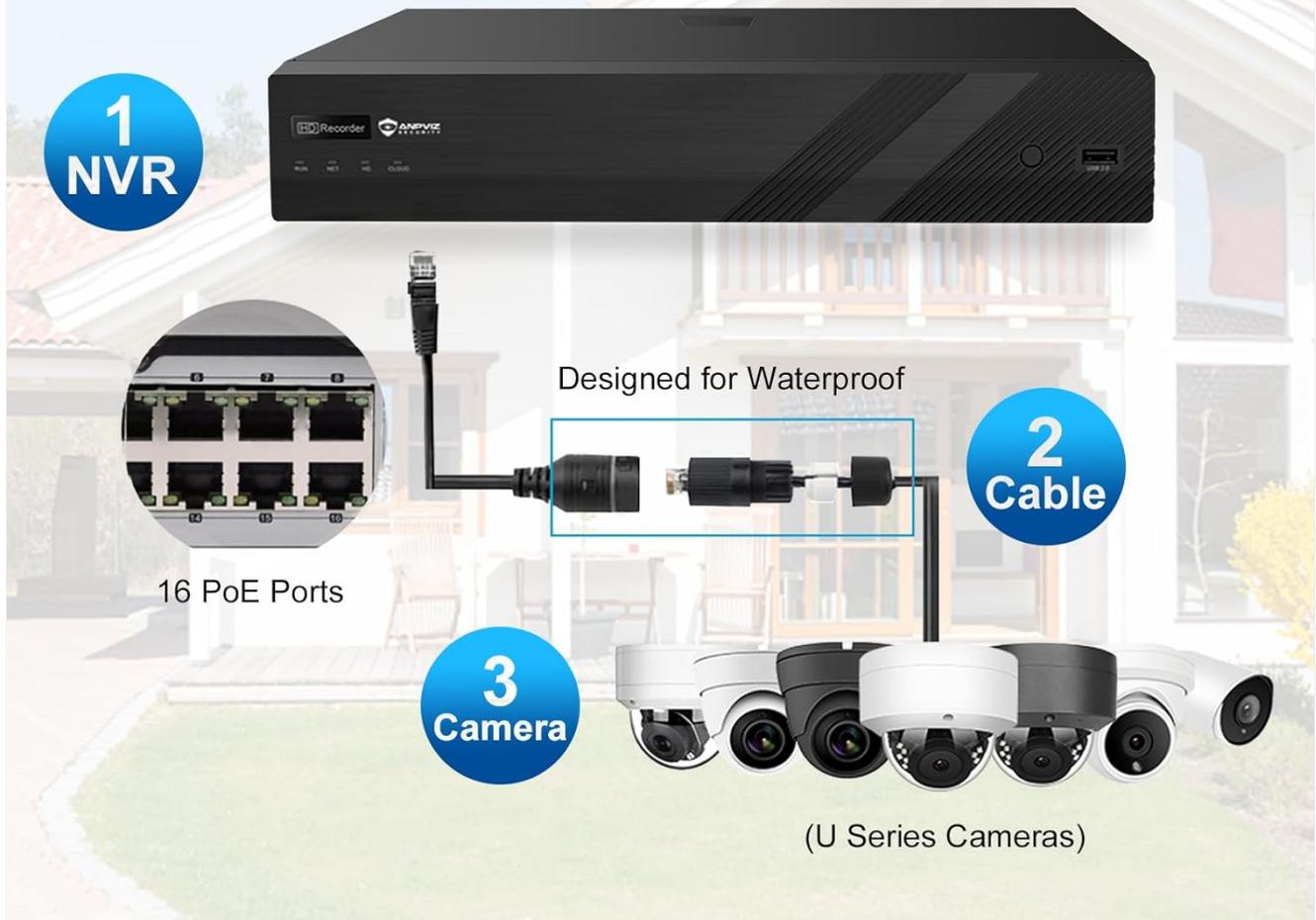
4.3 Camera Connection

Figure 3: Plug and Play setup for Anpviz U Series cameras, demonstrating direct connection to the NVR's PoE ports.

- **Anpviz U Series Cameras:** Connect these cameras directly to the NVR's PoE ports using Ethernet cables. The NVR will automatically detect and configure them for plug-and-play operation.
- **Third-party or Anpviz H Series Cameras:** For these cameras, connect them to the NVR's PoE ports. You will need to manually add and configure them through the NVR's interface. This typically involves entering the camera's IP address, username, and password. Refer to the camera's manual for specific network settings.

5. OPERATION

5.1 Initial Login and Setup Wizard

Upon first boot, the NVR will guide you through an initial setup wizard to configure basic settings such as language, date/time, network, and password. It is crucial to set a strong password for security.

5.2 Live View

After setup, the NVR will display the live view of connected cameras. You can switch between single-camera view,

multi-camera grid view, and customize the display layout.

5.3 Recording Configuration

The NVR supports various recording modes:

- **Continuous Recording:** Records 24/7.
- **Motion Detection Recording:** Records only when motion is detected.
- **Scheduled Recording:** Records during specific time periods.

Configure recording schedules and motion detection zones through the NVR's menu system (typically under "Record" or "Event" settings).

5.4 Playback

To review recorded footage, navigate to the "Playback" menu. Select the desired camera(s), date, and time. You can fast-forward, rewind, and pause playback.

5.5 Smart Motion Detection and Alerts

The NVR supports advanced motion detection features, including human and vehicle identification, to minimize false alarms. Configure alert actions such as email notifications, app push notifications, and FTP uploads in the "Event" or "Alarm" settings.

5.6 Remote Access (Software Applications)

Access your NVR and camera feeds remotely using dedicated software applications.

Figure 4: Remote access via "Guard Station" for PC (Windows, iOS/Mac) and "Guard Viewer" for mobile devices (Android).

- **For PC (Windows/macOS):** Download and install the "Guard Station" application.
- **For Mobile Devices (iOS/Android):** Download and install the "Guard Viewer" application from your device's app store.

Follow the in-app instructions to add your NVR using its serial number or IP address for remote viewing and management.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your NVR system.

- **Firmware Updates:** Periodically check the Anpviz official website for firmware updates. Updating firmware can improve system stability, add new features, and address security vulnerabilities. Follow the provided instructions carefully during the update process.
- **Hard Drive Management:** The NVR will automatically overwrite the oldest recordings when the hard drive is full. Regularly back up important footage to external storage if needed. Monitor the HDD health status through

the NVR's system settings.

- **System Backup:** Regularly back up your NVR's configuration settings to a USB drive. This can save time during system restoration or replacement.
- **Cleaning:** Keep the NVR free from dust. Use a soft, dry cloth to clean the exterior. Ensure ventilation openings are not blocked.
- **Password Security:** Change your NVR and camera passwords regularly to strong, unique combinations to prevent unauthorized access.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

7.1 No Video Output on Monitor

- **Check Cables:** Ensure HDMI/VGA cables are securely connected to both the NVR and the monitor.
- **Monitor Input:** Verify the monitor is set to the correct input source (HDMI/VGA).
- **Power:** Confirm the NVR is powered on and its power indicator light is active.
- **Resolution:** If using an older monitor, the NVR's default resolution might be too high. Try connecting to a different monitor or resetting the NVR to factory defaults (refer to the manual for specific steps).

7.2 Cameras Not Displaying / No Image

- **PoE Connection:** Ensure Ethernet cables are securely connected to both the NVR's PoE ports and the cameras. Check if the PoE port indicator lights on the NVR are active.
- **Camera Power:** Verify cameras are receiving power (PoE or external power supply if applicable).
- **Compatibility:** Confirm the camera is compatible with the NVR.
- **Manual Configuration:** For third-party or Anpviz H Series cameras, ensure they have been manually added and configured correctly in the NVR's camera management settings (IP address, port, protocol, username, password).
- **Network Issues:** If cameras are on a separate network segment or connected via a switch, ensure proper network configuration and IP address settings.

7.3 No Remote Access

- **Network Connection:** Ensure the NVR is connected to the internet via its LAN port. Check network status in NVR settings.
- **App Configuration:** Verify the NVR's serial number or IP address is correctly entered in the "Guard Viewer" or "Guard Station" app.
- **Firewall/Router Settings:** Your router's firewall might be blocking access. Ensure necessary ports are open or UPnP is enabled (if used).
- **Cloud Status:** Check the NVR's cloud status in its network settings. It should show "Online."

7.4 No Recording

- **Hard Drive:** Ensure a hard drive is installed, formatted, and recognized by the NVR. Check HDD status in system settings.
- **Recording Schedule:** Verify that recording schedules are correctly configured for the desired cameras and times.
- **Motion Detection:** If using motion detection recording, ensure motion detection is enabled and configured correctly for the cameras.

- **Camera Status:** Confirm that the cameras are actively displaying video in live view.

8. SPECIFICATIONS

Model Number	NVR3116M2-16P-FXX
Channels	16 Channels
Max Resolution	Up to 8MP/4K
Video Compression	H.265/H.264
PoE Ports	16 (IEEE 802.3af/at)
Video Output	1x HDMI (up to 4K), 1x VGA
Audio Input/Output	(Specifics not provided, typically 1x RCA In/Out)
USB Interface	2x USB 2.0 (Rear Panel)
Network Interface	1x RJ45 10/100/1000Mbps Ethernet
HDD Support	1x SATA (up to X TB, HDD not included)
Power Supply	DC 48V (Power Adapter Included)
Operating Temperature	(Specifics not provided, typically 14°F to 131°F / -10°C to 55°C)
Dimensions (L x W x H)	20 x 16 x 4.5 inches (Approximate Package Dimensions)
Weight	4.5 pounds (Approximate Item Weight)

Note: Specifications are subject to change without prior notice.

9. WARRANTY AND SUPPORT

Anpviz products come with a limited warranty. For detailed warranty terms and conditions, please refer to the official Anpviz website or contact customer support.

If you encounter any issues or require technical assistance, please contact Anpviz customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your NVR model number (NVR3116M2-16P-FXX) and purchase information ready.

Online Resources:

- Anpviz Official Website
- Anpviz Amazon Store