

Tiandy TC-NR4008M7-S2

Tiandy TC-NR4008M7-S2 8-Channel 1080P NVR Instruction Manual

Model: TC-NR4008M7-S2

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Tiandy TC-NR4008M7-S2 Network Video Recorder (NVR). This NVR is designed for IP surveillance systems, supporting up to 8 channels at 1080P resolution, and features advanced video analysis and smart recording capabilities. It is ONVIF compatible, ensuring broad compatibility with various IP cameras.

Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. SAFETY INFORMATION

To prevent electrical hazards and ensure safe operation, observe the following precautions:

- **Do not disassemble the equipment yourself.** Disassembly and maintenance of the equipment must be carried out by qualified professionals.
- Ensure the NVR is connected to a grounded power source to prevent electric shock.
- Avoid exposing the NVR to moisture, rain, or extreme temperatures.
- Do not block ventilation openings. Ensure adequate airflow around the unit.
- Use only the power adapter supplied with the NVR.



Image 2.1: Rear panel of the NVR showing various ports and a caution label. The label warns against self-disassembly due to electrical hazard and states that maintenance should be performed by professionals.

3. PRODUCT OVERVIEW

The Tiandy TC-NR4008M7-S2 NVR is a robust solution for managing your IP surveillance cameras. Key features include:

- **8-Channel Input:** Supports up to 8 IP camera channels.
- **1080P Resolution:** Records video at up to 1080P resolution.
- **Storage:** Accommodates two 3.5-inch SATA hard drives, each up to 4TB (hard drives not included).
- **Video Outputs:** HDMI and VGA for local display.
- **USB Ports:** Two USB ports for mouse and data backup.
- **Advanced Features:** Video Analysis and Smart Recording capabilities.
- **Connectivity:** Ethernet port for network connection.
- **Audio & Alarm:** Supports audio input/output and alarm functions.
- **ONVIF Compatibility:** Ensures interoperability with ONVIF-compliant IP cameras.

3.1 Front Panel



Image 3.1: Front view of the Tiandy TC-NR4008M7-S2 NVR. The front panel typically includes status indicators and the brand logo.



Image 3.2: Front view of the Tiandy NVR with graphical indicators for 8-Channel support, Up to 1080P resolution, Video Analysis, and Smart Recording.

3.2 Rear Panel

The rear panel provides all necessary connection ports for the NVR:

- **Power Input:** For connecting the power adapter.
- **Ethernet Port:** RJ45 port for network connection to IP cameras and the internet.
- **HDMI Output:** For connecting to an HDMI monitor or TV.
- **VGA Output:** For connecting to a VGA monitor.
- **USB Ports:** Two USB ports for mouse connection and external storage.
- **Audio In/Out:** For connecting external audio devices.
- **Alarm In/Out:** For connecting external alarm devices.



Image 3.3: Detailed rear panel of the NVR, illustrating the layout of the power input, Ethernet port, HDMI, VGA, USB ports, audio, and alarm connections.

4. SETUP

4.1 Hard Drive Installation

The NVR supports two 3.5-inch SATA hard drives (not included). It is recommended to use surveillance-grade hard drives for optimal performance and reliability. To install:

1. Power off the NVR and disconnect all cables.
2. Remove the NVR's cover by unscrewing the retaining screws.
3. Mount the hard drives into the designated bays using the provided screws.
4. Connect the SATA data and power cables from the NVR motherboard to the hard drives.
5. Replace the cover and secure it with the screws.

Note: SSDs may not have dedicated mounting slots and might require alternative securing methods if used.

4.2 Initial Connections

1. Connect a monitor to the NVR's HDMI or VGA output port.
2. Connect the included USB mouse to one of the NVR's USB ports.
3. Connect the NVR to your network using an Ethernet cable.
4. Connect the power adapter to the NVR and then to a power outlet.
5. Power on the NVR.

4.3 First-Time Configuration

Upon first boot, the NVR will guide you through an initial setup wizard. This typically includes:

- Setting up administrator password.

- Formatting the installed hard drives.
- Network settings configuration (DHCP or static IP).
- Time and date settings.
- Adding IP cameras (the NVR should be able to recognize and connect to ONVIF-compatible cameras).

5. OPERATING

5.1 Live View

After successful setup, you can access the live view of your connected cameras through the NVR's local interface. The live view is designed to be fluid and responsive.

5.2 Recording Configuration

The NVR supports various recording modes:

- **Continuous Recording:** Records 24/7.
- **Motion Detection Recording:** Records only when motion is detected by the cameras.
- **Scheduled Recording:** Records during specific time periods.
- **Alarm Recording:** Records when an alarm event is triggered.

Access the recording settings through the NVR's menu to configure your preferred recording schedule and modes for each channel.

5.3 Video Analysis and Smart Recording

The NVR includes advanced video analysis features. These can be configured to trigger recordings or alarms based on specific events, such as line crossing, intrusion detection, or object removal. Smart Recording optimizes storage by adjusting recording parameters based on event types.

5.4 Remote Access (Mobile App)

The NVR supports remote viewing and management via a mobile application, such as 'Easy Live Plus'. To use the app:

1. Download the 'Easy Live Plus' app from your smartphone's app store.
2. Register an account and log in.
3. Add your NVR to the app using its serial number or QR code.

Note: While the app provides remote access, some users have reported limitations in its functionality and configuration options compared to the local NVR interface. It is recommended to configure detailed settings directly on the NVR.

6. MAINTENANCE

6.1 Hard Drive Management

Regularly check the status of your hard drives through the NVR's storage management menu. You may need to:

- **Format Hard Drives:** If you install new drives or encounter recording issues, formatting can resolve problems. This will erase all data on the drive.
- **Replace Hard Drives:** If a hard drive fails or reaches its end of life, replace it following the installation steps in Section 4.1.

6.2 Software Updates

Periodically check the Tiandy official website for firmware updates. Firmware updates can improve performance, add new features, and fix bugs. Follow the instructions provided with the firmware update package carefully.

6.3 Cleaning

Keep the NVR clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation openings are not obstructed by dust buildup. Do not use liquid cleaners directly on the unit.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your NVR.

7.1 No Video Output

- Check if the monitor is properly connected to the HDMI or VGA port.
- Ensure the monitor is powered on and set to the correct input source.
- Verify that the NVR is powered on and its status indicators are normal.

7.2 Recording Issues

- **No Recordings:** Check if hard drives are installed, formatted, and healthy. Verify recording schedules and motion detection settings.
- **Settings Not Saving:** If settings revert to default, especially after using the mobile app, try configuring settings directly on the NVR's local interface. Ensure the NVR's firmware is up to date.
- **Poor Recording Quality:** Check camera resolution settings and NVR recording parameters. Ensure sufficient bandwidth for IP cameras.

7.3 Network and Remote Access Problems

- Ensure the Ethernet cable is securely connected to the NVR and your router/switch.
- Verify network settings (IP address, gateway, DNS) on the NVR.
- For remote access, ensure your NVR has internet access and port forwarding (if required by your network setup) is correctly configured on your router.
- If using the mobile app, ensure the app is updated to the latest version.

7.4 NVR Not Powering On

- Check the power cable connection to the NVR and the power outlet.
- Ensure the power adapter is functioning correctly.
- Try a different power outlet.

8. SPECIFICATIONS

Feature	Specification
Model Number	TC-NR4008M7-S2
Brand	Tiandy

Channels	8 IP Channels
Max Resolution	1080P (Full HD)
HDD Support	2 x 3.5" SATA HDD, up to 4TB each (8TB total)
Video Outputs	1 x HDMI, 1 x VGA
USB Ports	2 x USB
Network Interface	1 x RJ45 Ethernet
Audio	Audio In/Out support
Alarm	Alarm In/Out support
Features	Video Analysis, Smart Recording, ONVIF Compatible
Item Weight	2.8 kg
Compatible Devices	Smartphone (for remote access)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact your point of purchase. For technical support, please contact Tiandy customer service or your authorized dealer. Ensure you have your product model number (TC-NR4008M7-S2) and purchase details available when seeking support.