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› Tiandy TC-R3105 NVR User Manual

Tiandy TC-R3105 Spec: I/B/P/L

Tiandy TC-R3105 NVR User Manual

Model: TC-R3105 Spec: I/B/P/L | Brand: Tiandy

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Tiandy TC-R3105 5-Channel Network Video Recorder (NVR). The TC-R3105 is designed for reliable surveillance recording, supporting up to 5 channels and compatible with both Tiandy and third-party IP cameras.



Figure 1: Tiandy TC-R3105 Network Video Recorder. This image shows a front-facing view of the compact, black NVR unit with the Tiandy logo visible on its glossy top surface.

2. SETUP GUIDE

2.1 Package Contents

Before beginning installation, please verify that all components are present:

- Tiandy TC-R3105 NVR Unit
- Power Adapter (DC48V, 1.35A)
- Screws for HDD Installation

- Quick Start Guide (if included)
- *Note: Hard Disk Drive (HDD) is not included and must be purchased separately.*

2.2 Hardware Installation

1. HDD Installation:

Unscrew and remove the top cover of the NVR. Carefully connect the SATA power and data cables to the HDD. Secure the HDD within the NVR chassis using the provided screws. Replace the top cover and secure it.

2. Connect Cameras:

Connect your IP cameras to the PoE ports (RJ45 self-adaptive 10/100 Mbps) on the rear of the NVR. The NVR supports up to 5 channels.

3. Network Connection:

Connect the NVR to your local network using the RJ45 self-adaptive 10/100 Mbps network interface port.

4. Display Connection:

Connect a monitor to the NVR using either the HDMI or VGA output port. The NVR supports simultaneous output.

5. Power Connection:

Connect the power adapter to the NVR's power input and then plug it into a power outlet. The NVR will power on automatically.

2.3 Initial Configuration

Upon first boot, the NVR will guide you through an initial setup wizard. Follow the on-screen prompts to set up administrator password, network settings, date/time, and HDD initialization. It is crucial to initialize the HDD before recording can begin.

3. OPERATING INSTRUCTIONS

3.1 User Interface Navigation

Navigate the NVR's graphical user interface (GUI) using a connected USB mouse. The main menu provides access to live view, playback, camera management, system settings, and more.

3.2 Camera Management

To add or manage IP cameras:

- Go to **Main Menu > Camera > IP Camera**
- The NVR will automatically search for available cameras on the network.
- Select the cameras you wish to add and enter their credentials if required.
- Ensure cameras are properly configured for network access.

3.3 Recording and Playback

- **Recording Setup:** Access **Main Menu > Storage > Schedule** to configure recording schedules (continuous, motion detection, alarm).
- **Playback:** Go to **Main Menu > Playback**. Select the desired date, time, and camera channel to view recorded footage. Use the timeline to navigate through recordings.

3.4 Network Configuration

For remote access and advanced network features, configure the NVR's network settings:

- Navigate to **Main Menu > Network**.
- Configure IP address, subnet mask, gateway, and DNS settings. DHCP is enabled by default.
- For remote viewing, ensure port forwarding is correctly set up on your router for the NVR's ports (e.g., HTTP, RTSP, Server Port).

4. MAINTENANCE

4.1 Firmware Updates

Regularly check for firmware updates to ensure optimal performance and security. Firmware updates can typically be found on the official Tiandy website. Follow the instructions provided with the firmware package for safe updating.

4.2 System Backup

It is recommended to periodically back up your NVR's configuration settings. This can usually be done via the system settings menu, allowing you to restore settings quickly if needed.

4.3 Cleaning

Keep the NVR unit clean and free from dust. Use a soft, dry cloth to wipe the exterior. Ensure ventilation openings are not blocked to prevent overheating.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Tiandy TC-R3105 NVR.

Problem	Possible Cause / Solution
No video output on monitor.	Check HDMI/VGA cable connections. Ensure the monitor is set to the correct input source. Try a different resolution setting on the NVR if the monitor does not support the current output.
IP cameras not connecting or showing offline.	Verify network cable connections to PoE ports. Check if cameras are powered on (PoE indicator lights). Ensure camera IP addresses are within the NVR's network segment or are discoverable. Verify camera credentials (username/password) are correct in the NVR's camera management.
Hard Disk Drive (HDD) not detected.	Ensure the HDD is properly installed and SATA power/data cables are securely connected. Check if the HDD is initialized in the NVR's storage settings. Test with a different HDD if possible to rule out HDD failure.
Cannot access NVR remotely.	Verify NVR network settings (IP address, gateway, DNS). Check port forwarding rules on your router for the NVR's service ports. Ensure your internet service provider (ISP) does not block necessary ports. Confirm dynamic DNS (DDNS) or P2P cloud service is correctly configured if used.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	TC-R3105 Spec: I/B/P/L
Video Input	5-channel
Max Resolution	6MP
Bandwidth (Income/Outgoing)	60Mbps / 40Mbps
HDMI Output	1-ch, up to 4K (3840x2160)
VGA Output	1-ch, up to 1920x1080
Decoding Format	S+265/H.265/H.264
Recording Resolution	6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
SATA Interface	1 SATA interface, up to 8TB for 1 HDD (HDD not included)
Network Interface	1xRJ45 self-adaptive 10/100 Mbps
USB Interface	2x USB 2.0
PoE Interface	4x RJ45 self-adaptive 10/100 Mbps
Power Supply	DC48V, 1.35A
Chassis	1U
Dimensions (L x W x H)	7.87 x 7.85 x 1.69 inches
Weight (without HDD)	0.99 pounds (approx. 15.8 ounces)

7. WARRANTY AND SUPPORT

Tiandy products are designed for reliability and performance. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Tiandy website.

For technical support, product inquiries, or service requests, please contact your authorized Tiandy dealer or visit the official Tiandy support portal. Keep your product model number and serial number ready when seeking support.

Note: Protection plans mentioned on product listings are typically third-party offerings and separate from the manufacturer's warranty.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question