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GeoVision GV-VS2400 4-Channel H.264 TVI Video Server User Manual

Model: GV-VS2400

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1. INTRODUCTION

The GeoVision GV-VS2400 is a compact and powerful 4-channel H.264 Video Server designed for converting analog video signals into high-resolution digital images. This device supports TVI 1080p/720p and analog 960H/D1 real-time video inputs, making it an integral part of a comprehensive IP surveillance solution when integrated with GV-System (GV-DVR/NVR) or GV-VMS.

Key features include support for over 50 PTZ camera models, local video recording to USB storage, and a Tampering Alarm system to enhance security. The GV-VS2400 is suitable for various surveillance applications requiring reliable video digitization and management.



Figure 1: Front view of the GeoVision GV-VS2400 Video Server, showing its compact design and ports.

2. SETUP

2.1 Package Contents

Before beginning installation, verify that all items are present in the package:

- GV-VS2400 Video Server Unit
- Power Adapter (12V DC)
- Quick Start Guide
- Software CD (GV-System/GV-VMS)
- Mounting Kit (if applicable)

2.2 Hardware Installation

1. **Connect Cameras:** Connect up to four TVI 1080p/720p or analog 960H/D1 cameras to the video input ports on the GV-VS2400. Ensure secure connections.

2. **Network Connection:** Connect the GV-VS2400 to your network using an Ethernet cable. Alternatively, configure Wi-Fi or 3G/4G connectivity as required.
3. **USB Storage (Optional):** For local recording, connect a compatible USB HDD to the USB port on the GV-VS2400.
4. **Power Connection:** Connect the 12V DC power adapter to the GV-VS2400 and then plug it into a power outlet. The device will power on automatically.



Figure 2: Rear view of the GV-VS2400, illustrating video input, network, and power connections.

2.3 Initial Configuration

After hardware installation, access the device's web interface for initial configuration:

1. **Discover Device:** Use the GeoVision IP Device Utility software (available on the provided CD or GeoVision website) to discover the GV-VS2400 on your network.
2. **Access Web Interface:** Open a web browser and enter the IP address of the GV-VS2400. Log in using the default credentials (refer to the Quick Start Guide for details).
3. **Network Settings:** Configure network settings, including IP address, subnet mask, and gateway, to match your network environment.

4. **Video Settings:** Adjust video input settings for each connected camera, including resolution, frame rate, and compression (H.264).
5. **PTZ Control:** If using PTZ cameras, configure the appropriate PTZ protocol and settings.
6. **Storage Configuration:** Format and configure the connected USB HDD for video recording.

3. OPERATING THE GV-VS2400

3.1 Live View and Recording

The GV-VS2400 can be monitored and managed through its web interface or integrated with GeoVision's GV-System/GV-VMS software.

- **Live View:** Access the live video streams from connected cameras through the web interface or client software.
- **Manual Recording:** Initiate manual recording of video streams to the configured USB storage or network storage.
- **Scheduled Recording:** Set up recording schedules based on time or events (e.g., motion detection).

3.2 Tampering Alarm

The Tampering Alarm feature detects attempts to obstruct or disable cameras.

1. **Enable Tampering Detection:** In the web interface, navigate to the camera settings and enable the Tampering Alarm for desired channels.
2. **Configure Actions:** Specify actions to be taken when a tampering event is detected, such as sending notifications, triggering recording, or activating an alarm output.

3.3 Mobile Access

The GV-VS2400 supports remote access via mobile devices using GeoVision's mobile applications.

- **Download App:** Download the appropriate GeoVision mobile app from your device's app store.
- **Add Device:** Add the GV-VS2400 to the app using its IP address or QR code.
- **View Live Feeds:** Access live video feeds and manage basic settings remotely.

4. MAINTENANCE

4.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance and security.

- Visit the official GeoVision website for the latest firmware versions.
- Follow the provided instructions for firmware update procedures.

4.2 System Backup and Restore

It is recommended to regularly back up your system configurations.

- Use the web interface to export configuration files.
- Store backup files in a secure location.

4.3 Cleaning

Keep the device clean to prevent dust accumulation and ensure proper ventilation.

- Use a soft, dry cloth to clean the exterior of the unit.
- Do not use liquid cleaners or abrasive materials.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video signal	<ul style="list-style-type: none">• Loose camera connection• Incorrect video format• Camera power issue	<ul style="list-style-type: none">• Check all camera cable connections.• Verify camera output format matches GV-VS2400 input settings.• Ensure cameras are powered correctly.
Cannot access web interface	<ul style="list-style-type: none">• Incorrect IP address• Network connectivity issue• Firewall blocking access	<ul style="list-style-type: none">• Verify the GV-VS2400's IP address.• Check network cable and router connection.• Temporarily disable firewall on your PC to test.
Recording not working	<ul style="list-style-type: none">• USB HDD not connected or formatted• Recording schedule not configured• Insufficient storage space	<ul style="list-style-type: none">• Ensure USB HDD is properly connected and formatted via the web interface.• Verify recording schedules are active.• Check available storage space on the USB HDD.

6. SPECIFICATIONS

Feature	Description
Model	GV-VS2400
Video Input	4-channel TVI 1080p / 720p, Analog 960H / D1
Video Compression	H.264
Max Resolution	Up to 2 Megapixels (digitized)
Connectivity	Ethernet, Wi-Fi, USB, UMTS / 3G / 3.5G / 4G
Storage	USB HDD (for local recording)
PTZ Support	Supports over 50 PTZ models
Power Input	12V DC
Special Features	Tampering Alarm, Automatic switch between WiFi and 3G, Multi-language web interface (29 languages)

7. WARRANTY & SUPPORT

7.1 Product Warranty

GeoVision products typically come with a limited warranty. Please refer to the warranty card included with your

product or visit the official GeoVision website for detailed warranty terms and conditions specific to the GV-VS2400. Keep your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, product inquiries, or troubleshooting beyond this manual, please contact GeoVision technical support:

- **Website:** Visit the official GeoVision website for support resources, FAQs, and driver downloads.
- **Contact Information:** Refer to the GeoVision website for regional contact numbers and email addresses for technical support.
- **Online Resources:** Explore GeoVision's online knowledge base and forums for community support and additional information.