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> GeoVision USA Vision XVL810 8-Channel 4K DVR User Manual

## GeoVision XVL810

# GeoVision USA Vision XVL810 8-Channel 4K DVR User Manual

Model: XVL810 | Brand: GeoVision

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the GeoVision USA Vision XVL810 8-channel 4K Digital Video Recorder (DVR). The XVL810 is a versatile surveillance solution supporting TVI, AHD, CVI, CVBS, and IP camera inputs, offering high-resolution 4K video recording and advanced features for comprehensive security monitoring.

## 2. SAFETY INFORMATION

Please read and follow all safety instructions carefully to prevent injury or damage to the device. Keep this manual for future reference.

- Ensure the power supply voltage matches the DVR's requirements.
- Do not expose the DVR to water, moisture, or extreme temperatures.
- Avoid placing the DVR in direct sunlight or near heat sources.
- Do not open the DVR casing; refer all servicing to qualified personnel.
- Use only manufacturer-approved accessories and power adapters.
- Properly ground the device to prevent electrical shock.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- GeoVision USA Vision XVL810 8-Channel 4K DVR Unit
- 3.5" HDD Screw Kit
- 2.5" HDD Screw Kit
- USB Mouse

- Power Adapter (DC 12V, 2A, 24W)
- Download Guide (for software/manuals)

## 4. PRODUCT OVERVIEW

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The XVL810 DVR is designed for robust surveillance, supporting multiple video formats and offering high-definition output. Below is an image of the DVR unit, highlighting its general appearance.



**Figure 4.1:** Front view of the GeoVision USA Vision XVL810 8-Channel 4K DVR. This image displays the compact design of the DVR unit, typically featuring indicator lights and a USB port on the front panel.

### Key Features:

- H.265 / H.264 video compression format for efficient storage.
- Supports 8-channel analog cameras (TVI/AHD/CVI/CVBS) and 4-channel IP cameras.
- HDMI output at up to 4K (3840 x 2160) resolution.
- Simultaneous HDMI and VGA video output.
- Supports 1 SATA HDD up to 8 TB for video storage.
- P2P function for remote access via the GV-Eye app.
- ONVIF camera support for broad compatibility.
- NDAA Compliant.

## 5. SETUP

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### 5.1 Hardware Installation

#### 5.1.1 Hard Disk Drive (HDD) Installation

1. Unscrew and remove the top cover of the DVR unit.
2. Connect the SATA data cable and power cable from the DVR to the HDD.
3. Secure the HDD to the DVR chassis using the provided screws (3.5" or 2.5" HDD screw kit).
4. Replace the top cover and secure it with screws.

#### 5.1.2 Connecting Peripherals

- **Monitor:** Connect a monitor to the HDMI or VGA port on the rear panel.
- **Mouse:** Connect the USB mouse to a USB port on the DVR.
- **Network:** Connect an Ethernet cable from the DVR's LAN port to your router or network switch.
- **Cameras:** Connect analog cameras to the BNC inputs and IP cameras via the network.
- **Power:** Connect the power adapter to the DVR's power input and then to a power outlet.

## 5.2 Initial Power On and Configuration

1. After connecting all peripherals, plug in the power adapter. The DVR will power on automatically.
2. Follow the on-screen prompts to set up the initial system settings, including language, date/time, and administrator password.
3. Format the newly installed HDD when prompted to ensure it is ready for recording.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Connecting Cameras

- **Analog Cameras:** Connect TVI, AHD, CVI, or CVBS cameras directly to the BNC video input ports on the DVR. The DVR will automatically detect the video format.
- **IP Cameras:** Ensure IP cameras are connected to the same network as the DVR. Access the DVR's camera management interface to search for and add IP cameras.

### 6.2 Video Recording

- **Recording Schedule:** Navigate to the "Record" menu to set up continuous, motion-detection, or alarm-triggered recording schedules for each camera.
- **Manual Recording:** On the live view screen, click the record icon to start or stop manual recording for a selected channel.

### 6.3 Playback

- Access the "Playback" menu from the main interface.
- Select the desired date, time, and camera channel(s) to view recorded footage.
- Use the playback controls (play, pause, fast forward, rewind) to navigate through the recordings.

### 6.4 Remote Access (GV-Eye App)

1. Download the GV-Eye app from your smartphone's app store.
2. Open the app and register an account if you don't have one.
3. On the DVR, navigate to the P2P/Cloud settings and locate the QR code.
4. In the GV-Eye app, use the "Scan QR Code" function to add your DVR.
5. Enter the DVR's username and password to establish a connection and view live feeds or playback remotely.

## 7. MAINTENANCE

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### 7.1 Firmware Updates

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

### 7.2 Cleaning

Clean the exterior of the DVR with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are free from dust and obstructions to prevent overheating.

### 7.3 Hard Disk Drive (HDD) Management

Regularly check the health status of your HDD through the DVR's system settings. If the HDD shows signs of failure, back up important recordings and replace it promptly to avoid data loss.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video output on monitor.	Loose HDMI/VGA cable, incorrect monitor input, DVR not powered on.	Check cable connections, select correct monitor input, ensure DVR is powered.
Cameras not displaying.	Loose camera cable, camera power issue, incorrect camera type, IP camera network issue.	Check camera connections and power, verify camera compatibility, ensure IP cameras are on the same network and added correctly.
No recording.	HDD not installed/formatted, recording schedule not set, HDD full.	Install and format HDD, configure recording schedule, check HDD space.
Remote access not working.	Network connectivity issue, incorrect P2P settings, app login error.	Verify network connection, check P2P status on DVR, re-enter app credentials.

## 9. SPECIFICATIONS

Feature	Description
Model Number	XVL810
Video Compression	H.265 / H.264
Analog Video Input	8-channel (TVI/AHD/CVI/CVBS)
IP Video Input	4-channel
Video Output	1x HDMI (up to 4K), 1x VGA
Simultaneous Output	HDMI and VGA
Audio Input	RCA
HDD Support	1 SATA HDD, up to 8 TB
Network Interface	Ethernet (RJ45)
USB Interface	USB 2.0 (for mouse, backup)
Remote Access	P2P function (GV-Eye app)
Compatibility	ONVIF, NDAA Compliant
Power Supply	DC 12V, 2A, 24W

## 10. WARRANTY INFORMATION

The GeoVision USA Vision XVL810 DVR comes with a 2-year limited warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation. Please retain your proof of purchase for warranty claims.

## 11. TECHNICAL SUPPORT

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For technical assistance, troubleshooting, or warranty inquiries, please contact GeoVision customer support:

- **Website:** Visit the official GeoVision website for FAQs, software downloads, and support resources.
- **Email:** Refer to the GeoVision website for specific support email addresses.
- **Phone:** Contact numbers for technical support can be found on the GeoVision website.

When contacting support, please have your DVR model number (XVL810) and purchase information ready.