REVODATA POE4008ES

REVODATA POE4008ES 8-Channel 5MP POE Network Video Recorder User Manual

Model: POE4008ES | Brand: REVODATA

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your REVODATA POE4008ES 8-Channel 5MP POE Network Video Recorder (NVR). Please read this manual thoroughly before using the product to ensure proper setup and optimal performance. Keep this manual for future reference.

2. Product Overview

2.1 Key Features

- **8-Channel POE Power:** Supports up to 8 Power over Ethernet (PoE) channels for direct camera connection and power.
- **5MP HD Recording:** Capable of recording up to 8 channels at 5MP resolution at 25 frames per second.
- **Advanced H.265 Compression:** Utilizes H.265 video compression to save significant HDD storage and bandwidth without compromising image quality, compared to H.264.
- **Extensive Storage:** Supports a maximum of 10TB SATA Hard Disk Drive (HDD).
- **Broad Compatibility:** Compatible with many third-party IP cameras supporting the ONVIF protocol.
- **User-Friendly Interface:** Features a well-designed Graphical User Interface (GUI) for easy operation and configuration.
- **Multiple Access Options:** Supports mobile phone monitoring (iPhone/Android) and access via various web browsers (IE, Chrome, Firefox, Safari).
- **Video Outputs:** Equipped with HDMI and VGA HD outputs.
- **Cloud P2P Function:** Enables easy remote management and access.

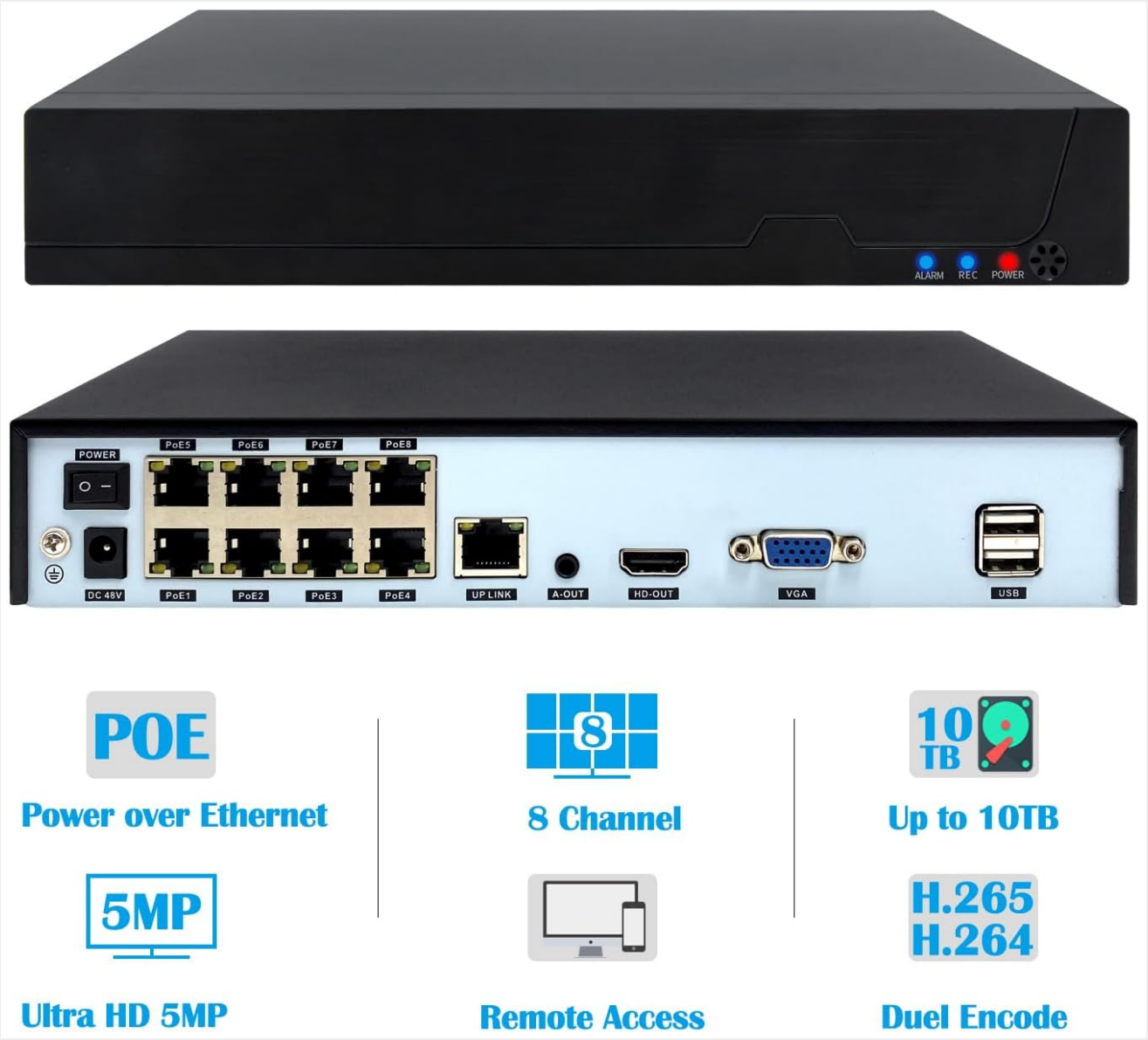

Figure 2.1: REVODATA POE4008ES NVR highlighting key features like PoE, 8 channels, 10TB storage, 5MP resolution, remote access, and H.265/H.264 encoding.

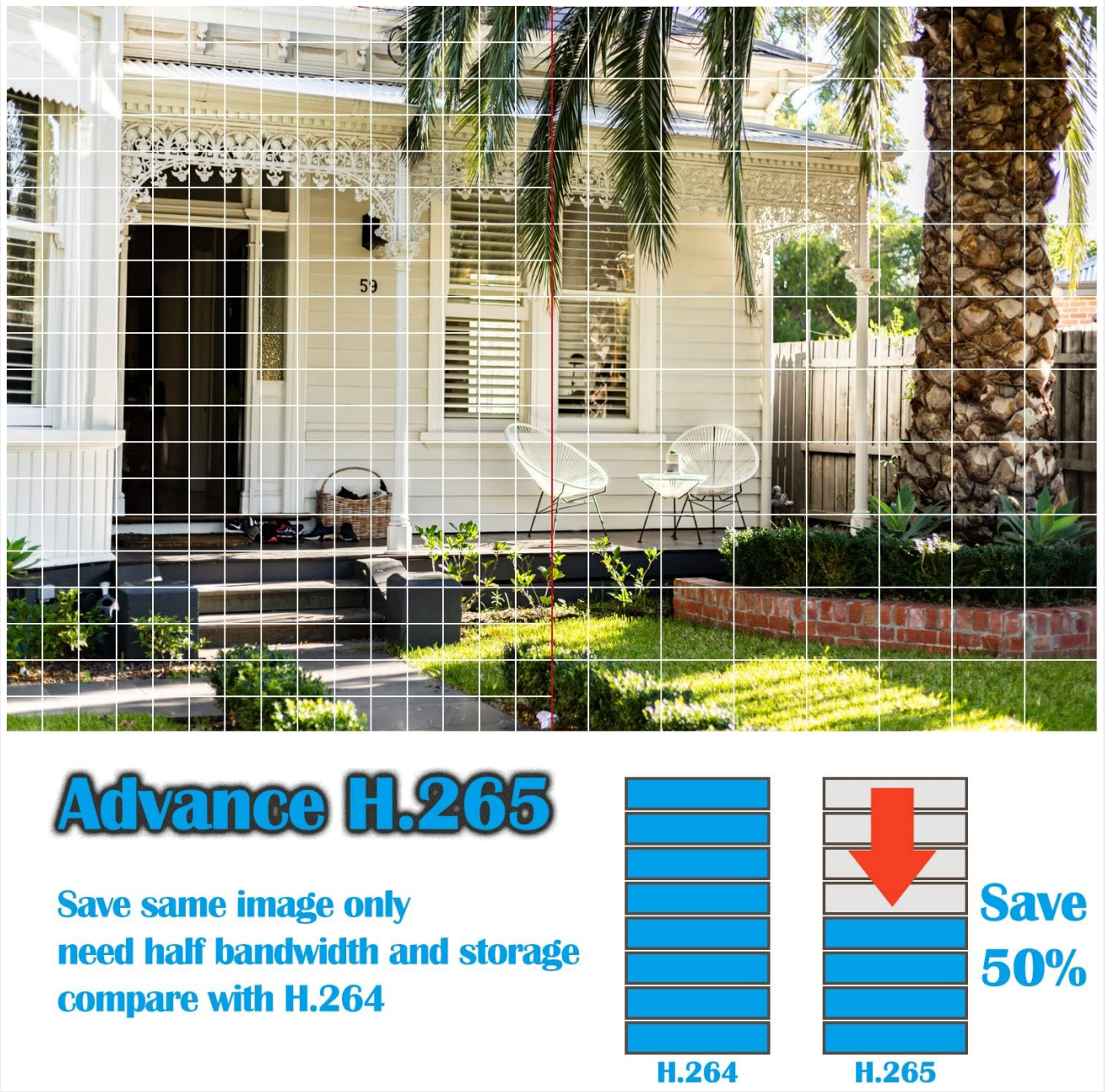

Figure 2.2: Comparison illustrating H.265 compression saving 50% bandwidth and storage over H.264.

Figure 2.3: Visual comparison of 5MP, 3MP, and 1080P resolutions, demonstrating the superior detail of 5MP.

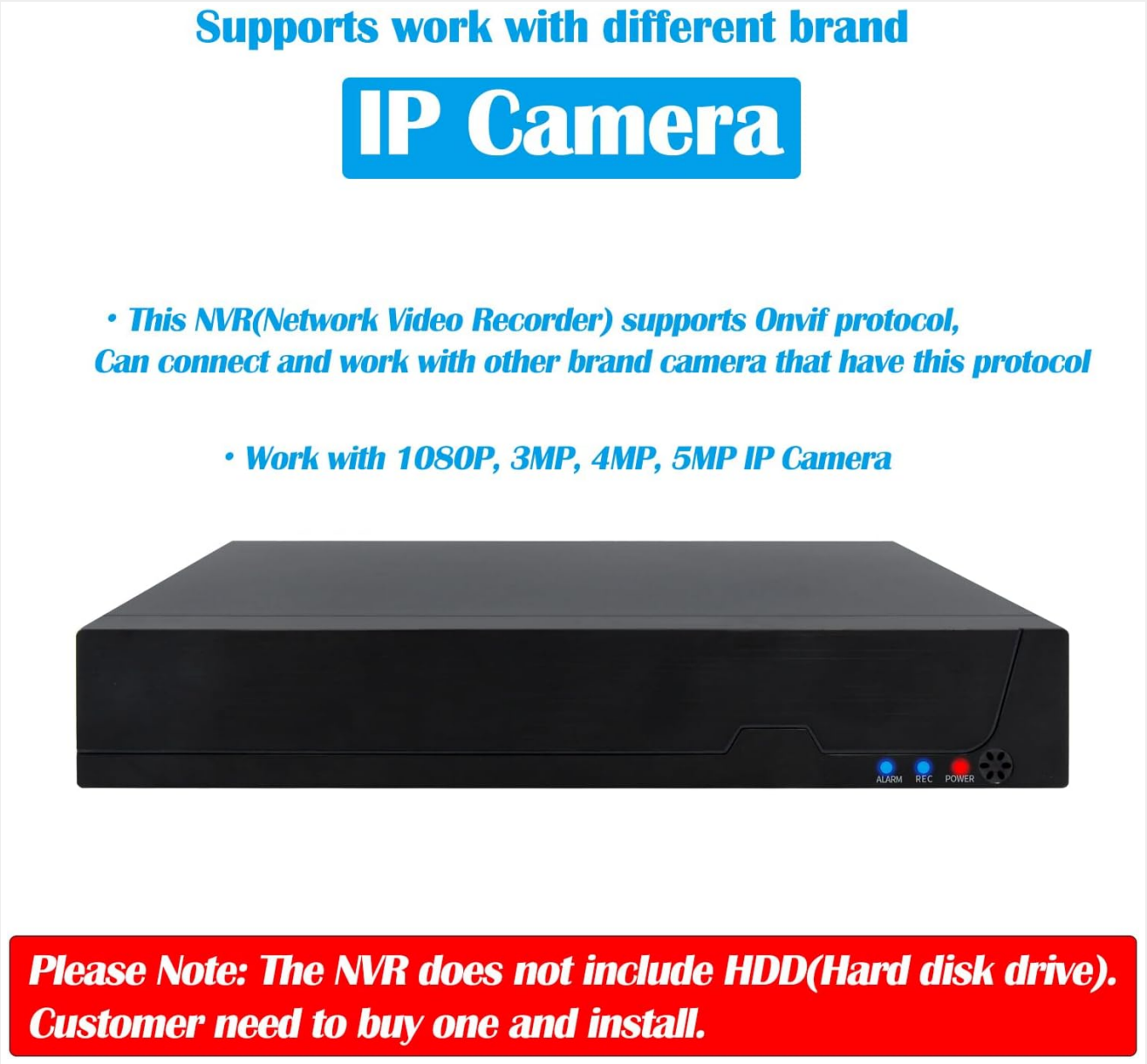

Figure 2.4: NVR compatibility with ONVIF IP cameras and a reminder that the HDD is sold separately.

2.2 Package Contents

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

- 1 x REVODATA 5MP NVR (Model: POE4008ES)
- 1 x USB Mouse
- 1 x DC 48V Power Adapter
- 1 x HDD Screw Set

Figure 2.5: Front view of the REVODATA NVR product packaging.

Figure 2.6: Side view of the product box, showing model number POE4008ES-A9 and serial number (S/N: 202305040001).

2.3 NVR Layout and Ports

Familiarize yourself with the NVR's physical layout and available ports.

Figure 2.7: Top and rear view of the REVODATA POE4008ES NVR.

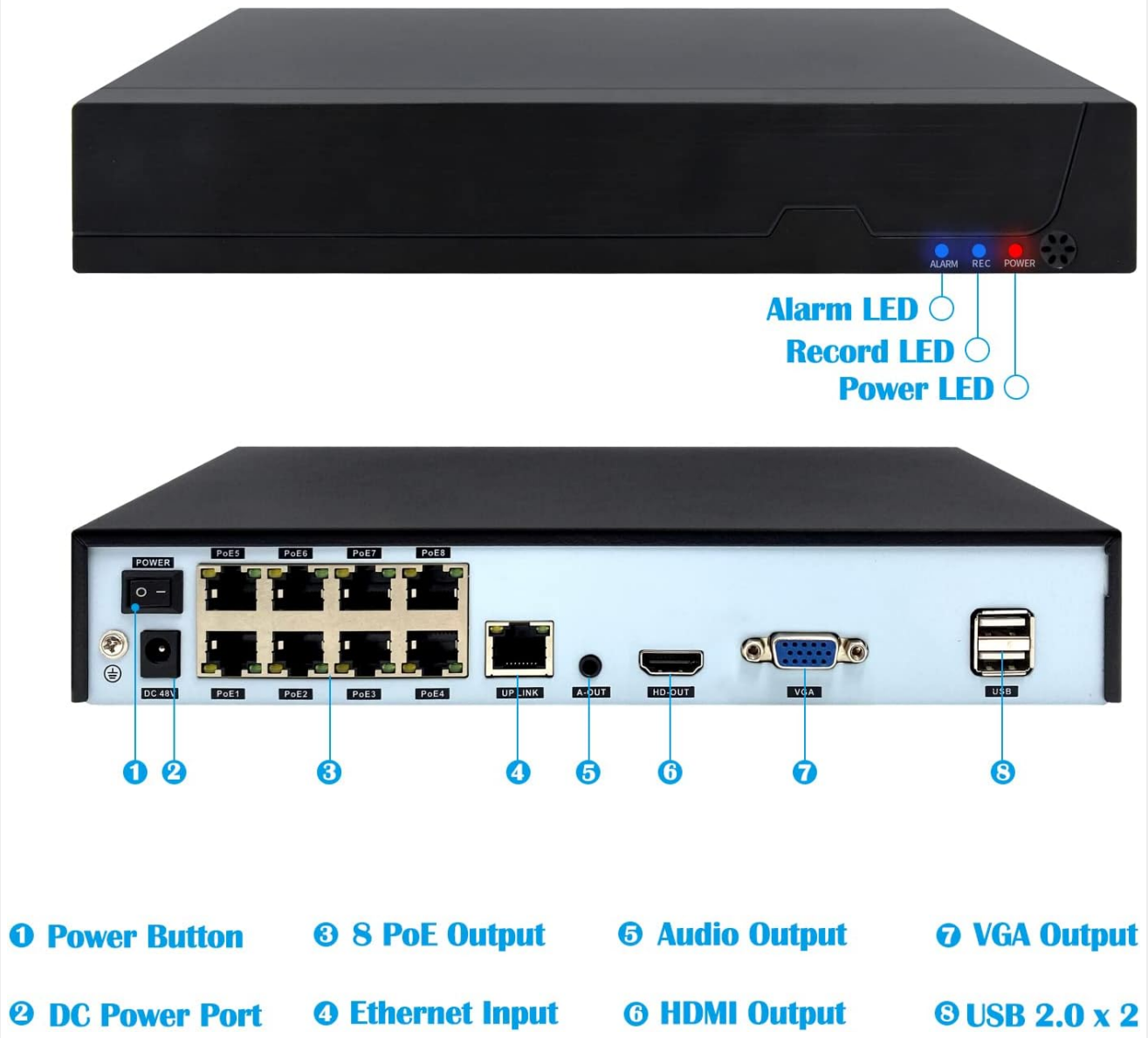

Figure 2.8: Detailed rear panel diagram with labeled ports.

1. **Power Button:** Used to power on or off the NVR.
2. **DC Power Port (DC 48V):** Connects to the included 48V power adapter.
3. **PoE Output Ports (PoE1-PoE8):** 8 Power over Ethernet ports for connecting IP cameras directly.
4. **Ethernet Input (UPLINK):** Connects the NVR to your local network/router.
5. **Audio Output (A-OUT):** For connecting external audio devices.
6. **HDMI Output (HD-OUT):** Connects to an HDMI-compatible monitor for high-definition video output.
7. **VGA Output (VGA):** Connects to a VGA-compatible monitor for video output.
8. **USB 2.0 Ports (USB):** Two ports for connecting a USB mouse, external storage, or for system backups.

LED Indicators:

- **ALARM LED:** Indicates alarm status.
- **REC LED:** Indicates recording activity.
- **POWER LED:** Indicates the NVR's power status.

3. Technical Specifications

Feature	Specification
Model	POE4008ES
System	Embedded Linux
CPU	MC6810 1G
Video Input	8 x 5MP
Video Compression	H.265 / H.264
Video Output	HDMI, VGA
Audio Output	1 Channel
Hard Drive Support	1 x SATA (up to 10TB)
USB Ports	2 x USB 2.0
Access Bandwidth	64Mbps
Forwarding Bandwidth	36Mbps
Recording Resolution	8 x 5MP
Recording Methods	Timing Record, Manual Record, Motion Record, External Alarm Record
Playback Capability	1 x 5M/25 (Main), 8 x D1/25 (Sub)
Network Port	10 / 100 Mbps Ethernet (RJ-45)
Network Protocols	TCP/IP, DHCP, DDNS, NTP, SMTP, PPPOE, FTP, DNS, UPNP, Email
Power Supply	DC 48V / 5A
Dimensions (L*W*H)	25.5 x 21.4 x 4.2 cm (10.04 x 8.43 x 1.65 inches)
NVR Weight	0.73 kg (1.61 pounds)
Operating Temperature	-10°C ~ 60°C
Working Humidity	10% ~ 90% Humidity

4. Setup Guide

4.1 Hard Drive Installation

The NVR requires a SATA Hard Disk Drive (HDD) for video storage, which is not included in the package. Please purchase a compatible 3.5-inch SATA HDD (up to 10TB) separately.

1. **Power Off:** Ensure the NVR is powered off and disconnected from the power source.
2. **Open Casing:** Carefully remove the screws on the NVR casing to open it.
3. **Connect HDD:** Connect the SATA data cable and power cable from the NVR to the HDD.
4. **Secure HDD:** Use the provided HDD screw set to secure the HDD inside the NVR casing.
5. **Close Casing:** Reattach the NVR casing and secure it with screws.

6. **Format HDD:** After powering on, access the NVR's system settings to format the newly installed HDD. This prepares it for recording.

4.2 Connecting Cameras

The NVR supports up to 8 PoE IP cameras. Connect your cameras to the PoE ports on the rear panel.

1. **Connect IP Cameras:** Plug one end of an Ethernet cable into a PoE port (PoE1-PoE8) on the NVR and the other end into the Ethernet port of your IP camera. The NVR will provide both power and data to the camera.
2. **Network Connection:** Connect the NVR's UPLINK Ethernet port to your router or network switch using an Ethernet cable. This enables remote access and network services.

4.3 Initial Power On and Display Connection

1. **Connect Monitor:** Connect a monitor to the NVR using either the HDMI or VGA output port.
2. **Connect Mouse:** Plug the included USB mouse into one of the USB 2.0 ports.
3. **Power On:** Connect the DC 48V power adapter to the NVR's DC Power Port and then plug the adapter into a power outlet. Press the Power Button on the NVR's front panel.
4. **First-Time Setup:** Follow the on-screen instructions to complete the initial setup, which may include setting a password, time zone, and network configuration.

5. Operating Instructions

5.1 Recording Modes

The NVR offers several recording options:

- **Manual Record:** Start and stop recording manually.
- **Timing Record:** Schedule recording for specific times and days.
- **Motion Record:** Recording is triggered by motion detection from connected cameras.
- **External Alarm Record:** Recording is triggered by an external alarm event (if supported and configured).

Configure these settings via the NVR's GUI under the "Record" or "Schedule" menu.

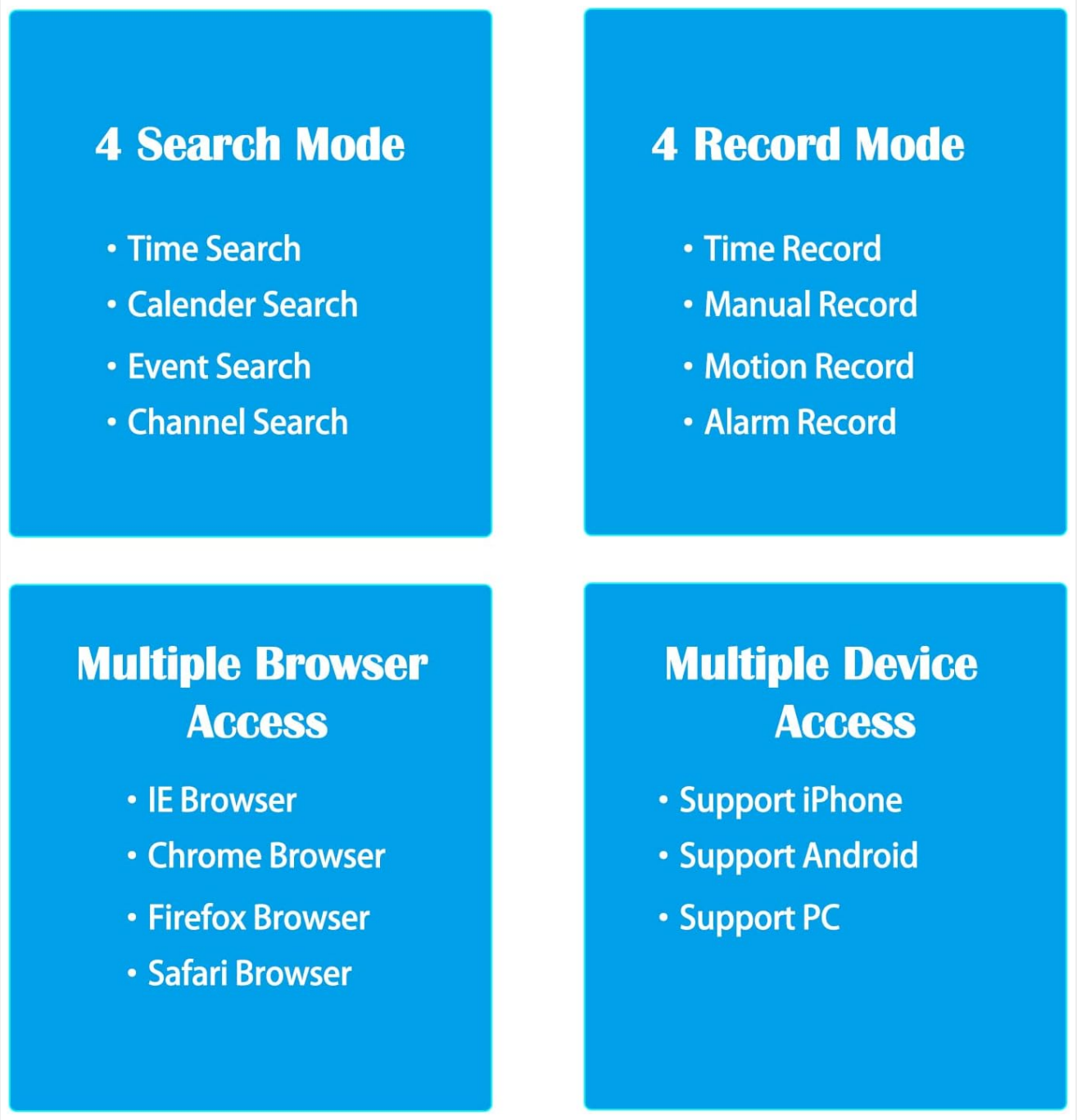

Figure 5.1: Overview of NVR search and record modes, along with access options.

5.2 Playback Modes

Access recorded footage using the following search methods:

- **Time Search:** Search for recordings by specific date and time.
- **Calendar Search:** Browse recordings using a calendar interface.
- **Event Search:** Locate recordings triggered by specific events (e.g., motion detection).
- **Channel Search:** Filter recordings by individual camera channels.

Playback can be initiated from the NVR's GUI under the "Playback" menu.

5.3 Remote Access and Mobile Monitoring

The NVR supports remote viewing via mobile devices and web browsers.

1. **Cloud P2P Function:** Enable the Cloud P2P function in the NVR's network settings. This allows for easy

remote access without complex port forwarding.

2. **Mobile App:** Download the official mobile application (usually available for iPhone and Android devices) from your device's app store. Register an account and add your NVR using its device ID or QR code.
3. **Web Browser Access:** Access the NVR via a web browser on your computer. The NVR supports IE, Chrome, Firefox, and Safari. Enter the NVR's IP address in the browser's address bar. You may need to install a plugin for full functionality, especially for older browsers.

6. Maintenance

- **Regular Cleaning:** Keep the NVR free from dust and debris. Use a soft, dry cloth for cleaning.
- **Firmware Updates:** Periodically check for firmware updates on the manufacturer's website to ensure optimal performance and security.
- **HDD Health Check:** Regularly monitor the health of your installed HDD through the NVR's system settings. Replace the HDD if any issues are detected.
- **Backup Important Footage:** Regularly back up critical video footage to external storage devices via the USB ports.
- **Environmental Conditions:** Ensure the NVR operates within the specified temperature (-10°C ~ 60°C) and humidity (10% ~ 90%) ranges. Avoid direct sunlight and excessive moisture.

7. Troubleshooting

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

Problem	Possible Cause	Solution
No video output on monitor.	Loose cable connection, incorrect input source on monitor, NVR not powered on.	Check HDMI/VGA cable connections. Ensure monitor is set to the correct input. Verify NVR power status.
Cameras not displaying.	Camera not powered, faulty Ethernet cable, incorrect camera IP settings, camera not compatible.	Check PoE connection to camera. Test Ethernet cable. Ensure camera is ONVIF compatible. Verify camera IP address and NVR settings.
No recording.	HDD not installed or formatted, recording schedule not set, motion detection not configured.	Install and format HDD. Configure recording schedule or motion detection settings.
Remote access not working.	NVR not connected to network, Cloud P2P disabled, incorrect app/browser settings.	Verify NVR network connection. Enable Cloud P2P. Check app/browser settings and NVR device ID.
Slow performance.	Network congestion, old HDD, high resolution/frame rate settings.	Check network bandwidth. Consider replacing old HDD. Adjust camera resolution/frame rate if necessary.

8. Warranty and Technical Support

8.1 Warranty Information

The REVODATA POE4008ES NVR comes with a **1-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse,

accidents, unauthorized modifications, or improper installation. Please retain your proof of purchase for warranty claims.

8.2 Technical Support

REVODATA provides **lifetime technical support** for this product. If you encounter any issues during setup, operation, or maintenance, or have any technical questions, please contact our support team. For assistance, refer to the contact information provided on the REVODATA official website or your purchase documentation.

Documents - REVODATA – POE4008ES

no relevant documents