Provision ISR SH-4050A5N-5L(MM)

Provision ISR SH-4050A5N-5L(MM) Dynamic Hybrid DVR User Manual

Model: SH-4050A5N-5L(MM)

1. INTRODUCTION

The Provision ISR SH-4050A5N-5L(MM) is a compact 6-channel dynamic hybrid Digital Video Recorder (DVR) designed for small to medium-sized security systems. This recorder supports both analog and IP camera inputs, offering flexible configuration options for various surveillance needs. It features high-definition recording, H.265 video compression for efficient storage, HDMI output, two-way audio capabilities, and advanced pixel-based video analytics.

Key Features:

- **Hybrid Input Support:** 4 Analog (BNC) channels + 2 IP channels, configurable up to 6 IP channels.
- **Video Outputs:** HDMI (1080p), VGA, and CVBS Spot outputs with mirrored dual display.
- **Efficient Compression:** H.265/H.264 video compression for optimized storage and bandwidth.
- **High Resolution Recording:** Up to 5MP IP recording at 30 frames per second per channel.
- **Storage:** Supports 1 SATA HDD bay, up to 6TB capacity.
- **Advanced Analytics:** Pixel-based video analytics and AI analytics via compatible IP cameras.
- **Audio:** Two-way audio with RCA input/output and Audio Over Coax (AoC) for TVI cameras.
- **Remote Access:** Compatible with Provision Cam2 App and Ossia VMS (Windows/Mac).
- **Compatibility:** NDAA Compliant with ONVIF support.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Provision ISR SH-4050A5N-5L(MM) DVR Unit
- Power Adapter

- USB Mouse
- SATA Cables for HDD (if applicable)
- Quick Start Guide

3. SETUP

3.1 Physical Overview

Below is an image of the DVR unit, highlighting its front panel features.

Figure 1: Front panel of the Provision ISR SH-4050A5N-5L(MM) DVR. The 'PROVISION ISR' logo is visible on the left, and a blue status indicator light is on the right.

3.2 Hardware Installation

1. **Hard Drive Installation:**

    - Unscrew and remove the top cover of the DVR.
    - Connect the SATA data and power cables to the hard drive.
    - Secure the hard drive to the DVR chassis using the provided screws.
    - Replace the top cover and secure it with screws.

2. **Connect Cameras:**

    - For analog cameras, connect BNC cables from the cameras to the BNC input ports on the DVR.
    - For IP cameras, connect them to your network switch. Ensure the DVR is also connected to the same network via its Ethernet port.

3. **Connect Display:** Connect a monitor to the DVR's HDMI or VGA output port.

4. **Connect Mouse:** Plug the USB mouse into one of the DVR's USB ports.

5. **Connect Power:** Connect the power adapter to the DVR and then to a power outlet. The DVR will power on automatically.

3.3 Initial Configuration

Upon first boot, the DVR will guide you through a setup wizard. Follow the on-screen prompts to:

- Set up administrator password.
- Configure date and time settings.
- Format the installed hard drive (**Note:** This will erase all data on the drive).
- Configure network settings (DHCP or Static IP).
- Search for and add IP cameras on the network.

4. OPERATING INSTRUCTIONS

4.1 Live View

After initial setup, the DVR will display the live view from connected cameras. Use the mouse to navigate the interface:

- **Right-click:** Access the main menu.
- **Left-click:** Select options or cameras.
- **Double-click:** Switch between single-camera view and multi-camera grid view.

4.2 Recording

The DVR is configured to record continuously by default after the hard drive is formatted. Recording settings can be adjusted in the main menu:

- **Recording Schedule:** Set specific times for continuous, motion-triggered, or alarm-triggered recording.
- **Recording Parameters:** Adjust resolution, frame rate, and compression (H.265/H.264) for each channel.

4.3 Playback

To review recorded footage:

1. Right-click on the live view to open the main menu.
2. Select 'Playback'.
3. Choose the desired date and camera channel.
4. Use the timeline to navigate through recordings.

4.4 Video Analytics

The DVR supports pixel-based video analytics. For compatible IP cameras, AI analytics features may also be available. These features can be configured in the 'Event' or 'Smart Analysis' section of the main menu. Common analytics include:

- Motion Detection
- Line Crossing Detection
- Intrusion Detection

4.5 Remote Access

Access your DVR remotely using the Provision Cam2 App (for mobile devices) or Ossia VMS (for Windows/Mac computers). Refer to the respective application manuals for detailed setup instructions. Generally, this involves:

- Ensuring the DVR has internet access.
- Registering the DVR with a cloud service or configuring port forwarding on your router.
- Adding the DVR to the remote access application using its serial number or IP address.

5. MAINTENANCE

- **Regular Cleaning:** Keep the DVR unit clean and free from dust to ensure proper ventilation. Use a soft, dry

cloth. Do not use liquid cleaners directly on the unit.

- **Firmware Updates:** Periodically check the Provision ISR website for firmware updates. Updating firmware can improve performance, add new features, and address security vulnerabilities. Follow update instructions carefully to avoid damaging the device.

- **Hard Drive Health:** Monitor the health of your hard drive through the DVR's system settings. Replace the hard drive if any errors or warnings are detected to prevent data loss.

- **Backup Configuration:** Regularly back up your DVR's configuration settings to a USB drive. This can save time during system recovery or replacement.

6. TROUBLESHOOTING

No Video Output

- Check all video cable connections (HDMI, VGA) between the DVR and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Verify that cameras are properly connected and powered.

Cannot Access DVR Remotely

- Confirm the DVR is connected to the internet and has a valid IP address.
- Check network settings on the DVR and your router (port forwarding, firewall rules).
- Ensure the remote access application (Provision Cam2, Ossia VMS) is correctly configured with the DVR's details.

Recording Issues

- Verify that a hard drive is installed, formatted, and healthy.
- Check recording schedules to ensure they are set correctly.
- Ensure there is sufficient free space on the hard drive.
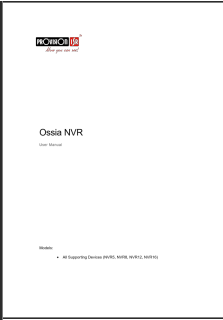
7. SPECIFICATIONS

Feature	Specification
Model Number	SH-4050A5N-5L(MM)
Video Inputs	4 Analog (BNC) + 2 IP (up to 6 IP in hybrid mode)
Video Outputs	HDMI (1080p), VGA, CVBS Spot
Video Compression	H.265/H.264
Recording Resolution	Up to 5MP (IP) at 30FPS per channel
Audio Input/Output	Two-way audio (RCA + AoC for TVI)

Feature	Specification
Storage	1 SATA HDD Bay, up to 6TB (Note: Product description mentions 10TB, please verify with manufacturer)
Network Interface	Ethernet
Connectivity Technology	Ethernet
Compatible Devices	Cameras
Product Dimensions	10.04"L x 8.66"W x 1.69"H (25.5 x 22 x 4.3 cm)
Manufacturer	Provision ISR
Compliance	NDAA Compliant, ONVIF Support

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Provision ISR website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

Related Documents - SH-4050A5N-5L(MM)

Ossia NVR User Manual Models: • All Supporting Devices (NVR5, NVR8, NVR12, NVR16)	[Ossia NVR User Manual: Comprehensive Guide to Network Video Recorders](#) Explore the Ossia NVR User Manual for detailed instructions on setup, operation, and advanced features of Provision-ISR's NVR devices. Learn about camera management, recording, playback, and analytics.
AHD Series DVR User Manual (Version 3.4.3 and Higher)	[PROVISION ISR AHD Series DVR User Manual](#) Comprehensive user manual for PROVISION ISR AHD Series DVR, detailing installation, configuration, operation, and remote surveillance for H.264 digital video recorders.

	[Provision ISR NVR8-8200N: 8MP 8CH NVR with Check Point & NDAA Compliance](#) Detailed specifications for the Provision ISR NVR8-8200N, an 8MP 8-channel Network Video Recorder featuring Check Point Quantum IoT Nano agent for advanced cyber protection and NDAA compliance. Includes video, audio, analytics, storage, and network specifications.
	[Provision-ISR IP Camera User Manual: Eye-Sight v2 Series](#) Comprehensive user manual for Provision-ISR Eye-Sight v2 IP cameras, covering setup, configuration, remote access, live preview, analytics, and troubleshooting for models like 320IPE 2MP and 340IPE 4MP.
	[Provision-ISR DB-320WIPN Video Doorbell Quick Guide](#) Comprehensive quick start guide for the Provision-ISR DB-320WIPN Video Doorbell, detailing setup, activation, network configuration, sharing, and advanced features for secure home monitoring.
	[PROVISION-ISR 360° FHD Car Dash Camera Quick Installation Guide](#) This guide provides instructions for installing and using the PROVISION-ISR 360° FHD Car Dash Camera, covering setup, features, and troubleshooting.