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Axis Communications M7104

Axis M7104 Video Encoder User Manual

Model: 01679-001

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1. INTRODUCTION

The Axis M7104 Video Encoder is designed to integrate analog CCTV cameras into an IP-based video surveillance system. This device digitizes analog video signals, allowing them to be viewed, recorded, and managed over a network. It supports various video surveillance and security system applications, providing a bridge between traditional analog infrastructure and modern IP network capabilities.



Figure 1: Axis M7104 Video Encoder. This image shows the front of the video encoder, highlighting its compact design and various input/output ports for connecting analog cameras and network cables.

2. SAFETY INFORMATION

- **Indoor Use Only:** This device is designed for indoor use. Do not expose it to outdoor elements, moisture, or extreme temperatures.
- **Power Supply:** Use only the power adapter supplied with the device or a compatible power supply specified by Axis Communications.
- **Ventilation:** Ensure proper ventilation around the device to prevent overheating. Do not block ventilation openings.
- **Mounting:** Mount the device securely on a stable surface or rack.
- **Cleaning:** Disconnect power before cleaning. Use a dry, soft cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Axis M7104 Video Encoder Unit
- Power Adapter
- Installation Guide / Documentation
- Mounting Bracket (if applicable)

4. SETUP

4.1 Physical Connections

1. **Connect Analog Cameras:** Connect your analog CCTV cameras to the video input ports on the Axis M7104 using coaxial cables. The encoder typically features multiple BNC connectors for this purpose.
2. **Connect to Network:** Connect an Ethernet cable (Cat 6 recommended) from the RJ45 network port on the encoder to your network switch or router. Ensure the network connection is active.
3. **Connect Power:** Plug the power adapter into the encoder's power input and then into a suitable power outlet. The device will power on automatically.

4.2 Initial Configuration

After connecting the hardware, you will need to configure the encoder via its web interface:

- **Discover Device:** Use the Axis IP Utility or Axis Device Manager software to discover the encoder on your network and obtain its IP address.
- **Access Web Interface:** Open a web browser and enter the encoder's IP address. You will be prompted to set a root password for the device.
- **Configure Video Streams:** Within the web interface, configure video settings for each connected camera, including resolution, frame rate (e.g., 30 Hz), compression, and streaming profiles.
- **Network Settings:** Adjust network settings such as static IP address, DNS, and gateway if required by your network infrastructure.

5. OPERATING THE VIDEO ENCODER

Once configured, the Axis M7104 Video Encoder operates by continuously digitizing and streaming video from connected analog cameras over the network. It is primarily used for video surveillance and security systems.

- **Live View:** Access live video streams from connected cameras through a compatible Video Management Software (VMS) or directly via the encoder's web interface.
- **Recording:** Integrate the encoder with a Network Video Recorder (NVR) or VMS for continuous or event-triggered recording of video streams.
- **Event Management:** Configure event triggers (e.g., motion detection, external input) and corresponding actions (e.g., send notifications, start recording) through the encoder's web interface or VMS.
- **Remote Access:** Access video streams and manage the encoder remotely via a secure network connection, often facilitated by your VMS or network configuration.

6. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the encoder with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off before cleaning.
- **Firmware Updates:** Regularly check the Axis Communications website for firmware updates. Keeping the firmware updated ensures optimal performance, security, and access to new features. Follow the instructions provided by Axis for firmware update procedures.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges for indoor use to prevent damage and ensure longevity.

7. TROUBLESHOOTING

Common Issues and Solutions:

- **No Power:**
 - Verify the power adapter is securely connected to both the encoder and a working power outlet.
 - Check if the power outlet is functional.
- **No Network Connection:**
 - Ensure the Ethernet cable is properly connected to the RJ45 port on the encoder and the network switch/router.
 - Check the network status lights on the encoder and the switch.
 - Verify network settings (IP address, subnet mask, gateway) are correct.
 - Try restarting the encoder and the network switch.
- **No Video Signal:**
 - Confirm that analog cameras are properly connected to the coaxial video input ports.
 - Ensure cameras are powered on and functioning correctly.
 - Check video settings in the encoder's web interface for the specific channel.
- **Cannot Access Web Interface:**
 - Verify the encoder's IP address is correct and reachable from your computer.
 - Ensure your computer is on the same network segment as the encoder.
 - Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
 - Try using the Axis IP Utility to rediscover the device.

8. SPECIFICATIONS

Feature	Detail
Brand	Axis Communications
Model Number	01679-001
ASIN	B07Y6VKFDP
Product Dimensions	6.69 x 8.27 x 3.15 inches
Item Weight	13 ounces (0.81 Pounds)
Connector Type	RJ45 (Network), Coaxial (Video Input)

Feature	Detail
Ethernet Cable Category	Cat 6 recommended
Data Transfer Rate	Up to 40 Gigabits Per Second (Network interface capability)
Frequency	30 Hz (Video frame rate capability)
Recommended Uses	Video surveillance, Security systems
Indoor/Outdoor Usage	Indoor
Country of Origin	China
Date First Available	September 22, 2019

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and additional resources, please visit the official Axis Communications website. You can find product documentation, FAQs, and contact information for customer service.

Official Website: www.axis.com

When contacting support, please have your product model number (01679-001) and serial number ready.