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› Sony SRG-X120 PTZ HD Network Camera User Manual

Sony SRG-X120

Sony SRG-X120 PTZ HD Network Camera User Manual

Model: SRG-X120

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Sony SRG-X120 PTZ HD Network Camera. Please read this manual thoroughly before using the product and retain it for future reference. The Sony SRG-X120 is a high-definition PTZ (Pan-Tilt-Zoom) network camera designed for various surveillance and video production applications. It features a 12x optical zoom, PoE+ support, and delivers 1080p video at 59.94p, with an optional 4K upgrade available.



Figure 1: Front view of the Sony SRG-X120 PTZ HD Network Camera.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the camera and ensure safe operation:

- **Power Source:** Use only the specified AC/DC power adapter (220 Volts) or Power over Ethernet Plus (PoE+) for power.
- **Installation:** Ensure the camera is securely mounted to a wall using appropriate hardware. Improper installation may result in injury or damage.
- **Environment:** Do not expose the camera to extreme temperatures, humidity, or dust. The camera has an IP21 waterproof rating, indicating protection against vertically falling drops of water and solid objects larger than 12.5mm.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry 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 before proceeding with installation:

- Sony SRG-X120 PTZ HD Network Camera
- AC/DC Power Adapter
- Wall Mount Bracket
- Mounting Screws and Anchors
- Operating Instructions (this manual)
- Warranty Card

4. SETUP

4.1 Physical Installation

1. **Choose a Location:** Select a suitable wall location for mounting, ensuring a clear field of view and access to power and network connections.
2. **Mounting:**
 - Attach the wall mount bracket to the desired surface using the provided screws and anchors. Ensure the bracket is level and securely fastened.
 - Carefully attach the SRG-X120 camera to the mounted bracket, following the instructions specific to the bracket design.

4.2 Power and Network Connection

The SRG-X120 supports both traditional AC/DC power and Power over Ethernet Plus (PoE+).

1. **Power Connection:**
 - **Using AC/DC Adapter:** Connect the provided AC/DC power adapter to the camera's power input and then to a 220 Volt power outlet.
 - **Using PoE+:** If your network switch or injector supports PoE+, connect a single Ethernet cable from the PoE+ enabled port to the camera's network port. This will provide both power and data.
2. **Network Connection:**
 - **Wired Connection:** Connect an Ethernet cable from your network router or switch to the camera's network port.
 - **Wi-Fi Connection:** For wireless connectivity, refer to the camera's on-screen menu or web interface for Wi-Fi setup instructions after initial wired connection. The camera supports Wi-Fi and HomePlug connectivity protocols.

4.3 Initial Configuration

After connecting power and network, the camera will power on. Access the camera's web interface via its IP address (refer to your network's DHCP server or use Sony's discovery tool) to configure settings such as:

- Network settings (static IP, DNS)
- User accounts and passwords
- Video resolution and frame rate (up to 1080p 59.94p, 4K via optional license)
- Image quality adjustments

5. OPERATING INSTRUCTIONS

5.1 Pan, Tilt, and Zoom (PTZ) Control

The SRG-X120 features advanced PTZ technology, allowing remote control of camera orientation and zoom level.

- **Pan/Tilt:** Use the control interface (web browser or dedicated controller) to adjust the horizontal (pan) and vertical (tilt) position of the camera.
- **Zoom:** The camera has a 12x optical zoom. Use the zoom controls to magnify or widen the field of view.
- **Presets:** Configure and save specific camera positions (pan, tilt, zoom, focus) as presets for quick recall.

5.2 Video Capture and Streaming

The camera supports various video output formats and resolutions.

- **Resolution:** Standard output is 1080p at 59.94 frames per second. An optional license enables 4K (3840 x 2160) video capture at 29.97 frames per second.
- **Format:** Video is typically streamed in ASF format.
- **Night Vision:** The camera includes a Night Color feature for enhanced low-light performance.

5.3 Iris Control

The camera's iris can be controlled manually or automatically to adjust the amount of light entering the lens, optimizing exposure for different lighting conditions.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning the Lens:** Gently wipe the lens with a soft, lint-free cloth. For stubborn smudges, use a lens cleaning solution specifically designed for optical surfaces.
- **Cleaning the Camera Body:** Use a soft, dry cloth to wipe the camera body. Do not use harsh chemicals or abrasive materials.
- **Firmware Updates:** Periodically check the Sony support website for firmware updates. Keeping the firmware updated ensures access to the latest features and security enhancements.
- **Environmental Checks:** Ensure the camera's operating environment remains within specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your Sony SRG-X120, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-----------------------|--|---|
| No power | Power cable disconnected; PoE+ not active; faulty power adapter. | Check power connections. Verify PoE+ functionality on your network switch. Test with a different power source if possible. |
| No network connection | Ethernet cable disconnected; incorrect network settings; Wi-Fi not configured. | Ensure Ethernet cable is securely connected. Verify IP address and network settings. Configure Wi-Fi via the web interface. |
| Poor image quality | Dirty lens; incorrect exposure settings; low bandwidth. | Clean the camera lens. Adjust iris and other image settings. Ensure sufficient network bandwidth. |

| Problem | Possible Cause | Solution |
|---------------------------|---|--|
| PTZ controls unresponsive | Network communication issue; software glitch. | Check network connection. Restart the camera. Update firmware. |

8. SPECIFICATIONS

| Feature | Detail |
|----------------------------|--------------------------------------|
| Brand | Sony |
| Model Name | SRG-X120 |
| Recommended Uses | Surveillance |
| Connectivity Technology | Wired, Wi-Fi |
| Special Feature | PTZ Technology |
| Controller Type | Iris |
| Mount Type | Wall Mount |
| Color | Black |
| Form Factor | Dome |
| Effective Still Resolution | 8.5 MP |
| Waterproof Rating | IP21 |
| Connectivity Protocol | HomePlug |
| Power Source | AC/DC, PoE+ |
| Voltage | 220 Volts |
| Optical Zoom | 12x |
| Photo Sensor Technology | CMOS (1/2.5 Exmor R CMOS) |
| Video Capture Resolution | 1080p (4K via optional license) |
| Frame Rate | 30 fps (1080p: 59.94p) |
| Video Capture Format | ASF |
| Night Vision | Night Color |
| Minimum Illumination | 1.6 lux (50IRE, F2.0 30fps) |
| Horizontal Resolution | 1000 or higher TV line (Center)(FHD) |
| Item Dimensions | 8 x 7 x 6.2 inches |
| Item Weight | 2.5 Pounds |

9. WARRANTY AND SUPPORT

Warranty Information: The Sony SRG-X120 PTZ HD Network Camera comes with a 1-year limited warranty from Sony. Please refer to the warranty card included in your package for detailed terms and conditions.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Sony customer support. Visit the official Sony support website for contact information, FAQs, and additional resources.

Note: Keep your purchase receipt and product serial number handy when contacting support.