PTZOptics PT12X-SE-G3

PTZOptics Move SE PT12X-SE-GY-G3 PTZ Camera Instruction Manual

Model: PT12X-SE-GY-G3

Introduction   **Package Contents**   **Setup**   **Operating Instructions**   **Maintenance**   **Troubleshooting**   **Specifications**   **Support**

1. INTRODUCTION

The PTZOptics Move SE PT12X-SE-GY-G3 is a high-resolution PTZ camera designed for professional video applications such as remote meetings, presentations, classrooms, houses of worship, and conference rooms. It offers advanced features including auto-tracking and versatile output options to integrate seamlessly into various production environments.

This manual provides detailed instructions for setting up, operating, and maintaining your PTZOptics Move SE camera to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Upon unboxing your PTZOptics Move SE camera, verify that all the following items are included:

- 1 x PTZOptics Move SE SDI/HDMI/USB/IP PTZ Camera with 12x Optical Zoom (Gray)
- 1 x Power Supply (12V DC)
- 1 x USB-A to USB-A Cable
- 1 x RS-232 Cable
- 1 x IR Remote Control
- 2 x AA Batteries (for IR Remote)
- 1 x Quick Start Guide

Figure 2.1: PTZOptics Move SE camera, remote, power supply, and cables included in the package.

Figure 2.2: Front view of the PTZOptics Move SE camera, highlighting the lens and indicator lights.

Figure 2.3: Rear view of the PTZOptics Move SE camera, showing various input/output ports.

3. SETUP

3.1. Initial Inspection

Before proceeding with installation, carefully inspect the camera and all accessories for any signs of damage.

Report any issues to your vendor immediately.

3.2. Powering the Camera

The Move SE camera can be powered via the included 12V DC power supply or Power over Ethernet (PoE) through the LAN port. Choose the method that best suits your installation requirements.

1. Connect the 12V DC power adapter to the DC 12V port on the rear of the camera.
2. Alternatively, connect an Ethernet cable from a PoE-enabled network switch to the LAN port on the camera.

Figure 3.1: Side view of the PTZOptics Move SE camera, showing its sleek design.

Figure 3.2: Another side view of the PTZOptics Move SE camera, highlighting the PTZOptics branding.

3.3. Video Output Configuration

The camera supports multiple video output options. Select the appropriate output based on your setup:

- **HDMI:** Connect an HDMI cable to the HDMI port for direct video output to a display or capture device.
- **3G-SDI:** Use a 3G-SDI cable for professional video workflows, supporting long cable runs without signal degradation.
- **USB-C:** Connect a USB-C cable to a computer for use as a webcam or for USB video capture.
- **IP (Ethernet):** Connect an Ethernet cable to the LAN port for IP streaming and control. This also supports PoE.

Refer to the Quick Start Guide for detailed instructions on setting video resolution and frame rates using the system select dial on the camera's rear panel.

Figure 3.3: PTZOptics Move SE camera connected with various cables, demonstrating its versatile connectivity options.

Figure 3.4: PTZOptics Move SE camera shown with its remote control and other accessories, illustrating the complete setup.

4. OPERATING INSTRUCTIONS

4.1. Remote Control Functions

The included IR remote control allows for easy manipulation of the camera's pan, tilt, zoom, and focus

functions. It also supports up to 255 presets for quick scene changes.

- **Pan/Tilt:** Use the directional arrows to adjust the camera's horizontal and vertical orientation.
- **Zoom:** Use the zoom buttons to zoom in or out, utilizing the 12x optical zoom lens.
- **Focus:** Adjust the focus manually or use auto-focus settings.
- **Presets:** Store and recall specific camera positions and zoom levels using the preset buttons.

The camera features a built-in tally light above the lens to indicate when the camera is live, helping talent stay in sync with the production.

4.2. Auto-Tracking

The Move SE camera features impressive auto-tracking capabilities, ideal for dynamic presentations where the subject moves around the room. This feature eliminates the need for a dedicated camera operator, ensuring the subject remains in frame and in focus.

- Activate auto-tracking via the camera's web interface or compatible control software.
- The camera will automatically pan, tilt, and zoom to follow the designated subject.

Figure 4.1: The camera's auto-tracking feature in action, keeping a moving subject in frame.

4.3. IP Control and Streaming

The camera can be controlled and streamed over an IP network. This allows for remote operation and integration with various streaming platforms and video production software.

- Access the camera's web interface by entering its IP address into a web browser.
- Configure streaming settings, including resolution, frame rate, and compression (H.265/H.264/MJPEG).
- Stream directly to platforms like YouTube, Facebook Live, or any RTMP(S) service.
- Optional NDI|HX upgrade is available for real-time collaboration and low-latency video transmission over IP.
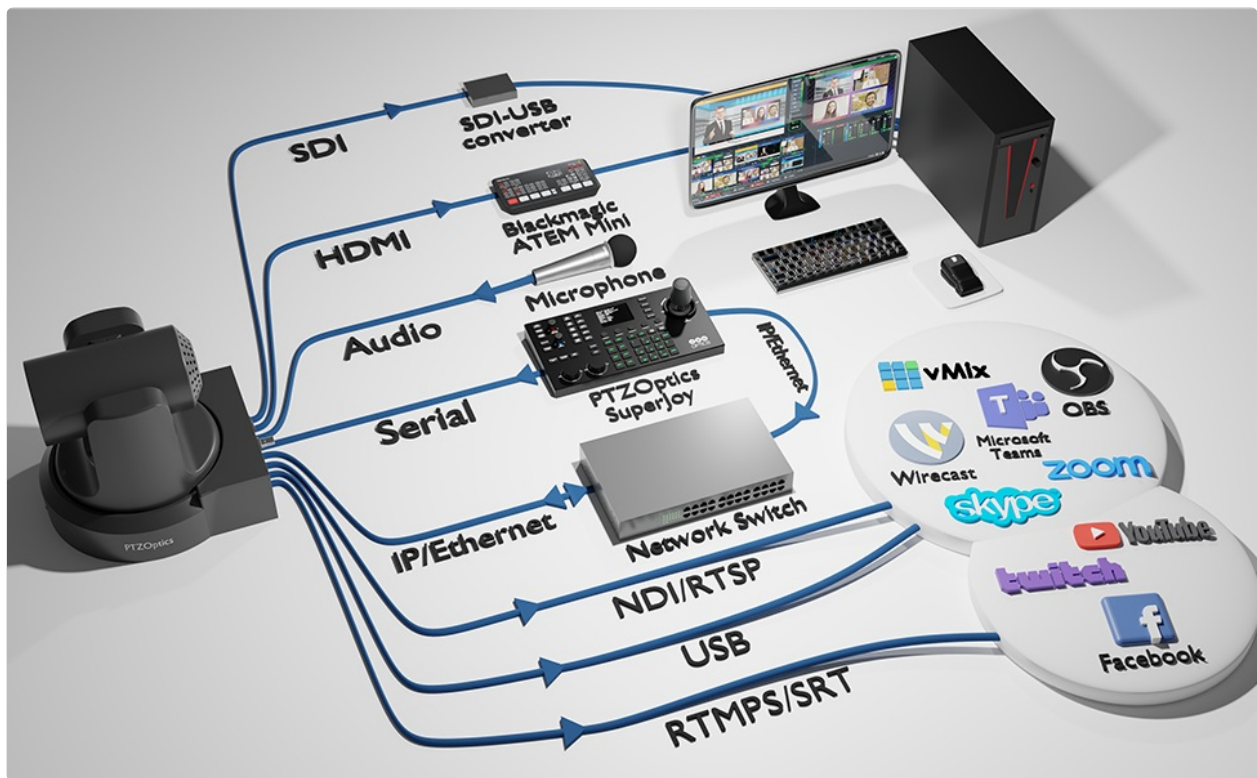
Figure 4.2: Connectivity diagram showing how the PTZOptics Move SE integrates with various devices and streaming platforms.

Your browser does not support the video tag.

Video 4.1: An unboxing video for the PTZOptics Move 4K camera, demonstrating the contents of the package and initial setup steps. This video highlights the camera's features and connectivity options.

5. MAINTENANCE

5.1. Cleaning

- Use a soft, dry cloth to clean the camera body.
- For the lens, use a lens cleaning cloth and specialized lens cleaning solution. Avoid abrasive materials that could scratch the lens.
- Ensure the camera is powered off before cleaning.

5.2. Firmware Updates

Periodically check the PTZOptics website for firmware updates. Firmware updates can improve performance, add new features, and resolve potential issues. Follow the instructions provided with the firmware update package carefully.

5.3. Storage

When not in use, store the camera in a cool, dry place away from direct sunlight and extreme temperatures. Use the lens cap to protect the lens from dust and scratches.

6. Troubleshooting

Problem	Possible Cause	Solution
No video output	Incorrect cable connection, wrong input selected on display, camera not powered on.	Verify all cables are securely connected. Ensure the display/switcher input matches the camera output. Check power indicator lights.
Camera not responding to remote control	Low/dead batteries, IR sensor blocked, incorrect camera ID selected.	Replace batteries. Ensure no obstructions between remote and camera IR sensor. Check camera ID setting on remote.
Auto-tracking not working	Feature not enabled, subject too far/close, poor lighting conditions.	Enable auto-tracking in settings. Ensure subject is within optimal range and lighting is adequate.
Poor image quality	Dirty lens, incorrect resolution/frame rate, poor lighting.	Clean the lens. Adjust resolution/frame rate settings. Improve lighting in the environment.

If issues persist after attempting these solutions, please contact PTZOptics technical support.

7. Specifications

- **Model:** PT12X-SE-GY-G3
- **Optical Zoom:** 12x
- **Video Capture Resolution:** Up to 1080p60
- **Output Options:** IP, HDMI, USB-C, 3G-SDI
- **Connectivity Technology:** HDMI, Ethernet, USB
- **Audio:** 3.5mm Line In/Out
- **Control:** RS-232, RS-485, IP Control, IR Remote
- **Compression:** H.265/H.264/MJPEG
- **Power:** DC 12V, Power over Ethernet (PoE)
- **Special Features:** Auto-Tracking, Low Light Performance, 255 Presets, Tally Light
- **Dimensions:** 5.6 x 6.5 x 6.7 inches
- **Item Weight:** 6.19 pounds
- **Color:** Gray

8. Support & Warranty

8.1. Technical Support

For technical assistance, product inquiries, or troubleshooting beyond this manual, please visit the official PTZOptics support website or contact their customer service team. Contact information can typically be found

on the PTZOptics website or in the Quick Start Guide.

8.2. Warranty Information

Warranty details for the PTZOptics Move SE camera are provided with your purchase documentation. Please refer to the warranty card or the official PTZOptics website for comprehensive information regarding warranty coverage, terms, and conditions.

Optional protection plans may be available for extended coverage. For example, a 3-Year Protection Plan is offered for $119.99, and a Complete Protect plan is available for $16.99/month, covering eligible past and future purchases.

Related Documents - PT12X-SE-G3

[PTZOptics Studio SE HD Streaming Camera - Specifications and Features](#)
Explore the PTZOptics Studio SE, a professional HD streaming camera featuring 12X/20X optical zoom, 1080p 60 FPS video, NDI HX3, SDI, and HDMI outputs. Full technical specifications, connectivity, and package contents.

[PTZOptics Move SE: Quick Start Guide for Video Production Cameras](#)
A comprehensive quick start guide for the PTZOptics Move SE series of cameras, covering setup, connection, configuration, streaming, and control options. Includes details on NDI integration, web UI access, IR remote functions, and auto-tracking.

[PTZOptics 12X-SDI 1080p Broadcast & Conference Camera - Specifications and Features](#)
Detailed specifications, features, and remote control guide for the PTZOptics 12X-SDI 1080p broadcast and conference camera. Supports 3G-SDI, HDMI, and IP streaming.

[PTZOptics Cameras and Video Production Equipment Datasheets](#)
Comprehensive datasheets and specifications for PTZOptics 12X, 20X, and 30X SDI cameras, along with PC recommendations, Magewell converters, HuddleCamHD controllers, and Shure audio interfaces for professional video production.

[PTZOptics SDI Cameras and Accessories: Specifications and Guide](#)

Explore detailed specifications, features, and PC recommendations for PTZOptics SDI cameras (12X, 20X, 30X), Magewell Quad SDI PCIe card, HuddleCamHD joystick, and Shure Motiv MVI-DIG audio interface.

[PTZOptics Studio SE User Manual: Features, Specifications, and Operation](#)

Comprehensive user manual for the PTZOptics Studio SE camera, covering features, technical specifications, setup, connections, remote control, web UI, and troubleshooting. Learn how to optimize your video production with this 4K NDI|HX camera.