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**PTZOptics PT20X-4K-XX-G3**

# PTZOptics Move 4K Auto-Tracking PTZ Camera User Manual

Model: PT20X-4K-XX-G3 | Brand: PTZOptics

## 1. Introduction

The PTZOptics Move 4K camera is an advanced auto-tracking PTZ (Pan, Tilt, Zoom) camera designed for professional video production scenarios. It offers 4K resolution at 60 frames per second and features built-in auto-tracking capabilities, eliminating the need for a dedicated camera operator. With 12x, 20x, and 30x optical zoom available, the Move 4K can fit seamlessly into any production scenario. This manual provides essential information for setting up, operating, and maintaining your PTZOptics Move 4K camera.

## 2. What's in the Box

Upon unboxing your PTZOptics Move 4K camera, you should find the following components:

- PTZOptics Move 4K Camera
- AC Power Supply
- USB A-A Cable
- RS232 Cable
- IR Remote
- 2 AA Batteries (for IR Remote)
- Quick Start Guide




Image: The PTZOptics Move 4K camera along with its power supply, USB cable, RS232 cable, IR remote, and quick start guide.

## 3. Setup

Follow these steps to set up your PTZOptics Move 4K camera:

1. **Unboxing and Initial Inspection:** Carefully remove all components from the packaging. Inspect the camera and accessories for any signs of damage.

   Your browser does not support the video tag.

   Video: An unboxing guide for the PTZOptics Move 4K camera, demonstrating how to unpack the camera and its accessories.

2. **Select Video Resolution and Frame Rate:** Before powering on, select your desired video resolution and frame rate using the yellow dial labeled "SYSTEM SELECT" on the back of the camera. Refer to the quick start guide or the table on the bottom of the camera for available options.




Image: Close-up of the rear panel of the PTZOptics Move 4K camera, highlighting the various input/output ports and the yellow system select dial.

3. **Powering the Camera:** The camera can be powered via the included DC 12V power supply or through Power over Ethernet (PoE) using the LAN port. Connect the chosen power source to the appropriate port on the back of the camera.




Image: Front view of the grey PTZOptics Move 4K camera, showing the lens, NDI|HX branding, and power/standby indicators.

4. **Mounting Options:** The camera supports various mounting options (above, below, or beside the action). The automatic video inversion feature senses the camera's orientation and adjusts the image accordingly, simplifying installation.



Image: A grey PTZOptics Move 4K camera shown mounted on a wall bracket, demonstrating a discreet installation option.

# 4. Operating the Camera

## 4.1 Connectivity

The Move 4K camera offers multiple output options for integration into your production workflow:

- **SDI:** 3G-SDI interface for professional video connections.
- **HDMI:** Standard HDMI output for direct display or capture.
- **USB:** USB 2.0 for direct connection to computers for video conferencing or capture.
- **IP/Ethernet (NDI|HX):** LAN port supporting NDI|HX for network-based video transmission and Power over Ethernet (PoE).
- **Audio:** Line In and Line Out ports for integrating external audio.
- **Control:** RS485 and RS232 ports for serial control, in addition to IP control.

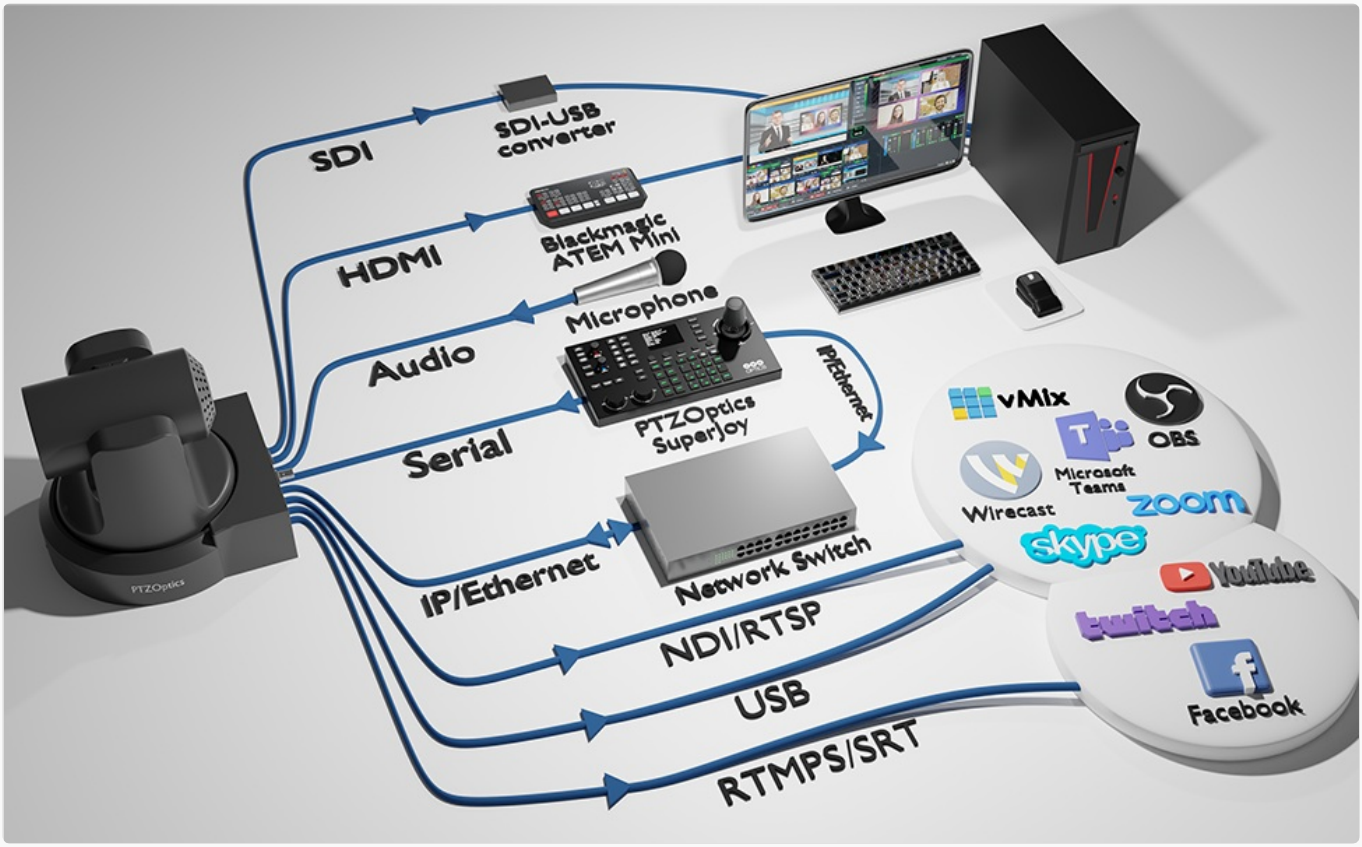



Image: A comprehensive diagram illustrating the various input and output connections of the PTZOptics Move 4K camera, including SDI, HDMI, USB, and IP/Ethernet, and how they integrate with different production tools and streaming platforms.

## 4.2 Auto-Tracking and Control

The Move 4K camera features built-in auto-tracking, allowing it to automatically follow a presenter or subject without manual intervention. This frees up operators and simplifies production.



Image: A PTZOptics Move 4K camera positioned in a classroom, demonstrating its auto-tracking capability by highlighting a speaker within the frame.

For manual control and advanced settings, the camera offers a comprehensive Web UI. This interface provides access to almost every feature with tutorial functions, making it user-friendly for both experienced and novice producers.

- **IR Remote:** Use the included IR remote for basic pan, tilt, zoom, and preset controls.
- **Web UI:** Access the camera's advanced settings and controls via a web browser by connecting to its IP address.
- **Tally Light:** A built-in tally light above the lens indicates when the camera is live, helping talent stay in sync with the production.



Image: A person using a laptop to access the PTZOptics Web UI, which provides comprehensive control and settings for the camera.

## 5. Maintenance

To ensure the longevity and optimal performance of your PTZOptics Move 4K camera, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution. Avoid abrasive cleaners or solvents.
- **Dust Protection:** Keep the camera in a clean, dust-free environment when not in use. Use lens caps to protect the lens from dust and scratches.
- **Firmware Updates:** Periodically check the PTZOptics website for firmware updates. Keeping your camera's firmware up-to-date ensures access to the latest features and performance improvements.
- **Environmental Conditions:** Operate the camera within its specified temperature and humidity ranges. Avoid exposing it to extreme temperatures, direct sunlight for prolonged periods, or high humidity.

## 6. Troubleshooting

If you encounter issues with your PTZOptics Move 4K camera, consider the following common troubleshooting steps:

- **No Power:** Ensure the power supply is securely connected to both the camera and a working power outlet. If using PoE, verify the Ethernet cable is connected to a PoE-enabled switch or injector.
- **No Video Output:** Check all video cable connections (HDMI, SDI, USB, Ethernet). Ensure the correct input is selected on your display or capture device. Verify the resolution dial on the camera's back is set correctly.
- **Auto-Tracking Issues:** Ensure the subject is within the camera's field of view and there are no obstructions. Check the camera's Web UI for auto-tracking settings and calibration options.
- **Control Issues:** For IR remote issues, ensure batteries are fresh and there's a clear line of sight to the camera's IR receiver. For IP or serial control, verify network connectivity and correct control protocol settings.
- **Image Quality Problems:** Check lighting conditions. Ensure the lens is clean. Adjust white balance and exposure settings via the Web UI.

For more detailed troubleshooting or persistent issues, refer to the full user manual available on the PTZOptics website or contact customer support.

## 7. Specifications

Key technical specifications for the PTZOptics Move 4K camera:

| Feature | Specification |
|---|---|
| Brand | PTZOptics |
| Model Number | PT20X-4K-XX-G3 |
| Item Weight | 3.25 pounds |
| Product Dimensions | 6 x 6 x 8 inches |
| Country of Origin | China |
| Color Name | Grey |
| Special Features | Remote Control, Low Light, Built-In Light |
| Photo Sensor Technology | CMOS |
| Video Capture Resolution | 1080p, 4K |
| Maximum Focal Length | 8.51 Millimeters |
| Maximum Aperture | 2 f |
| Flash Memory Type | SD |
| Video Capture Format | MP4 |
| Supported Audio Format | 1x 3.5mm Line level Input |
| Screen Size | 2 Inches (Visible screen diagonal) |
| Connectivity Technology | USB, Ethernet, HDMI |

## 8. Warranty and Support

PTZOptics stands by the quality of its products. The Move 4K camera comes with a **5-year limited parts and labor**

**warranty**. This warranty ensures that PTZOptics will provide repairs or replacement products for the duration of your warranty period, protecting your investment.
For technical support, warranty claims, or additional product information, please visit the official PTZOptics website or contact their customer service department. Contact details can typically be found in the quick start guide or on the manufacturer's website.

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