

PTZOptics PT20X-SE-GY-G3

PTZOptics Move SE 20x 1080p Full HD Advanced PTZ Auto-Tracking Camera

USER INSTRUCTION MANUAL

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your PTZOptics Move SE 20x 1080p Full HD Advanced PTZ Auto-Tracking Camera. This camera is designed for live streaming and video production, featuring advanced auto-tracking capabilities and multiple output options.

Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

SETUP

1. Unpacking and Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'What's in the Box' section are present and undamaged. If any items are missing or damaged, contact your vendor immediately.

- Camera

2. Physical Connections

Connect the necessary cables to the camera's rear panel. Refer to the diagram below for port identification.



Image: Rear panel of the PTZOptics Move SE camera, illustrating various connectivity ports including DC 12V power, LAN, USB 2.0, 3G-SDI, HDMI, Type-C, RS232, RS485, and Line In/CVBS.

- **Power:** Connect the included DC 12V power adapter to the camera and a power outlet.
- **Network (LAN):** Connect an Ethernet cable to the LAN port for IP control, NDI, and network streaming.
- **Video Outputs:**
 - **HDMI:** Connect an HDMI cable to a display or video switcher.
 - **3G-SDI:** Connect an SDI cable for professional video workflows.
 - **USB 2.0:** Connect to a computer for use as a webcam or for control.

- **IP/NDI:** Video can be streamed over the network via the LAN port.
- **Audio Input:** Use the Line In port for external audio sources.
- **Control Ports:** RS-232 and RS-485 ports are available for serial control.

3. Network Configuration

The camera supports easy network discovery. Connect the camera to your network via the LAN port. Use the PTZOptics Camera Management Platform or Web UI to configure network settings, including IP address and streaming protocols.

OPERATING INSTRUCTIONS

1. Power On/Off

Connect the power adapter to turn on the camera. The power indicator light will illuminate. Disconnect the power adapter to turn off the camera.

2. Control Options

The PTZOptics Move SE camera offers various control methods:

- **IR Remote:** Use the included infrared remote control for basic pan, tilt, zoom, and preset recall functions.
- **Web UI:** Access the camera's web interface via a web browser on your network for comprehensive settings and control.
- **PTZ Control App:** Utilize the dedicated PTZOptics Control App for mobile device control.
- **Network Connection:** Control via IP commands and NDI.
- **RS-232/RS-485:** Integrate with third-party control systems using serial communication.
- **USB Port:** Control via USB connection to a computer.
- **Camera Management Platform:** For managing multiple PTZOptics cameras.

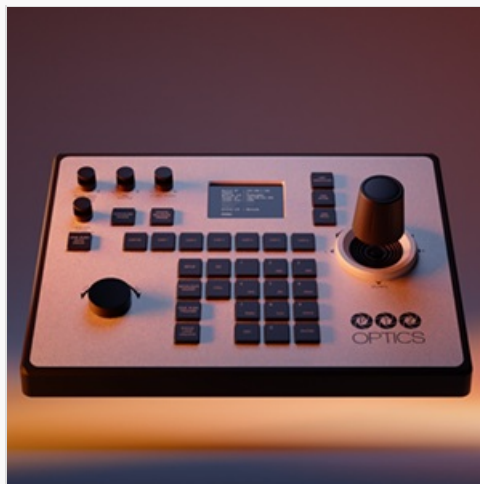


Image: A smartphone screen displaying the PTZOptics Control App, showing options for pan, tilt, zoom, focus, and view.

3. Auto-Tracking Feature

The camera features advanced auto-tracking. To activate and configure auto-tracking, access the camera's Web UI or Camera Management Platform. Follow the on-screen instructions to define tracking zones and sensitivity settings.



Image: An illustration of the auto-tracking feature in a classroom setting, with a green box around the presenter indicating active tracking.

4. Video Output and Streaming

The camera provides simultaneous video outputs via HDMI, SDI, NDI, USB, and IP. It supports 1080p video at 60 frames per second (FPS) with adjustable resolutions.

For live streaming, the camera can directly stream to platforms like YouTube and Facebook, or any service supporting RTMP(S) protocols. Audio can be included via the 3.5mm input.

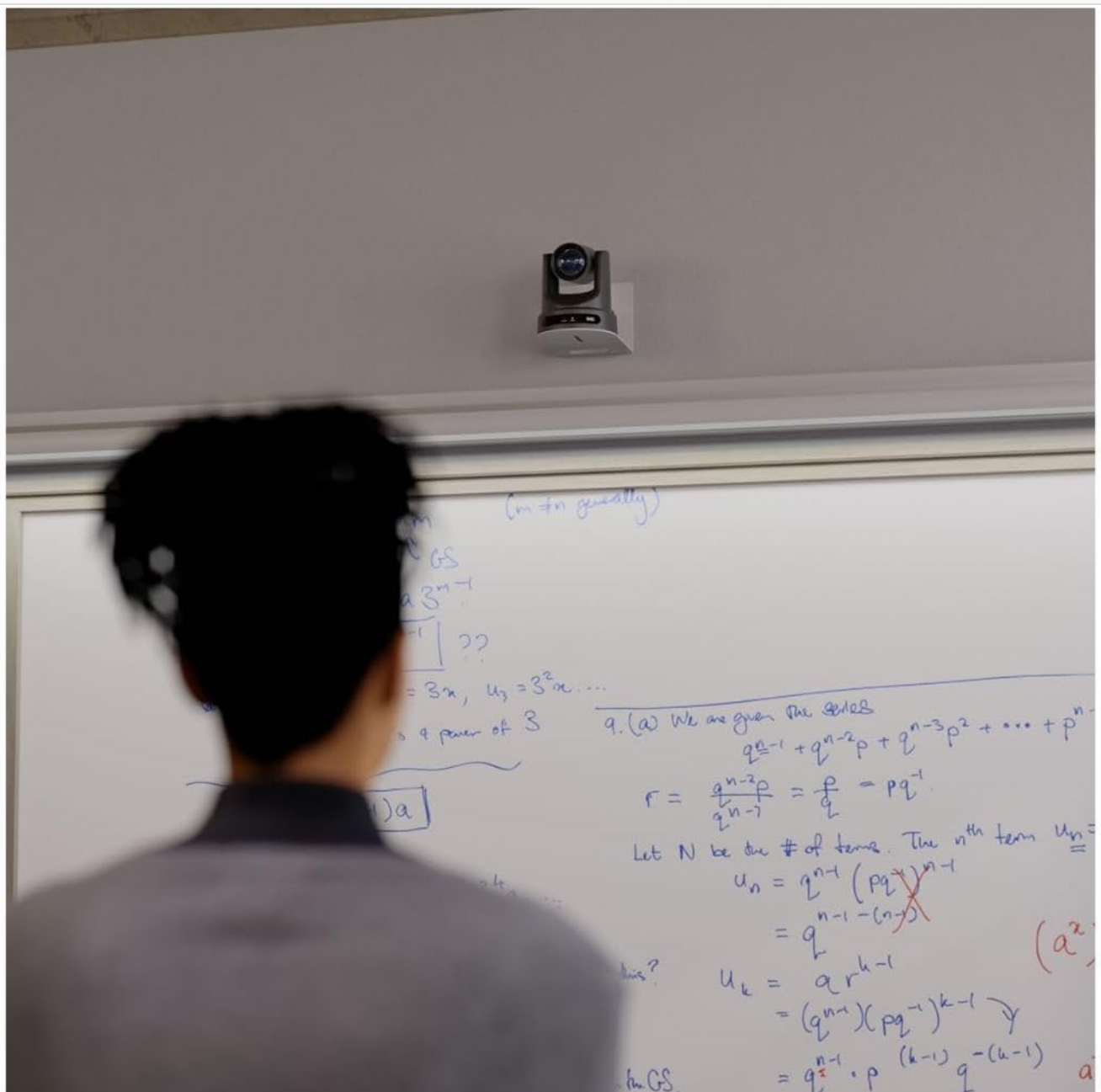


Image: A diagram illustrating the camera's direct live streaming capabilities to platforms like YouTube and Facebook, highlighting the 3.5mm audio input.

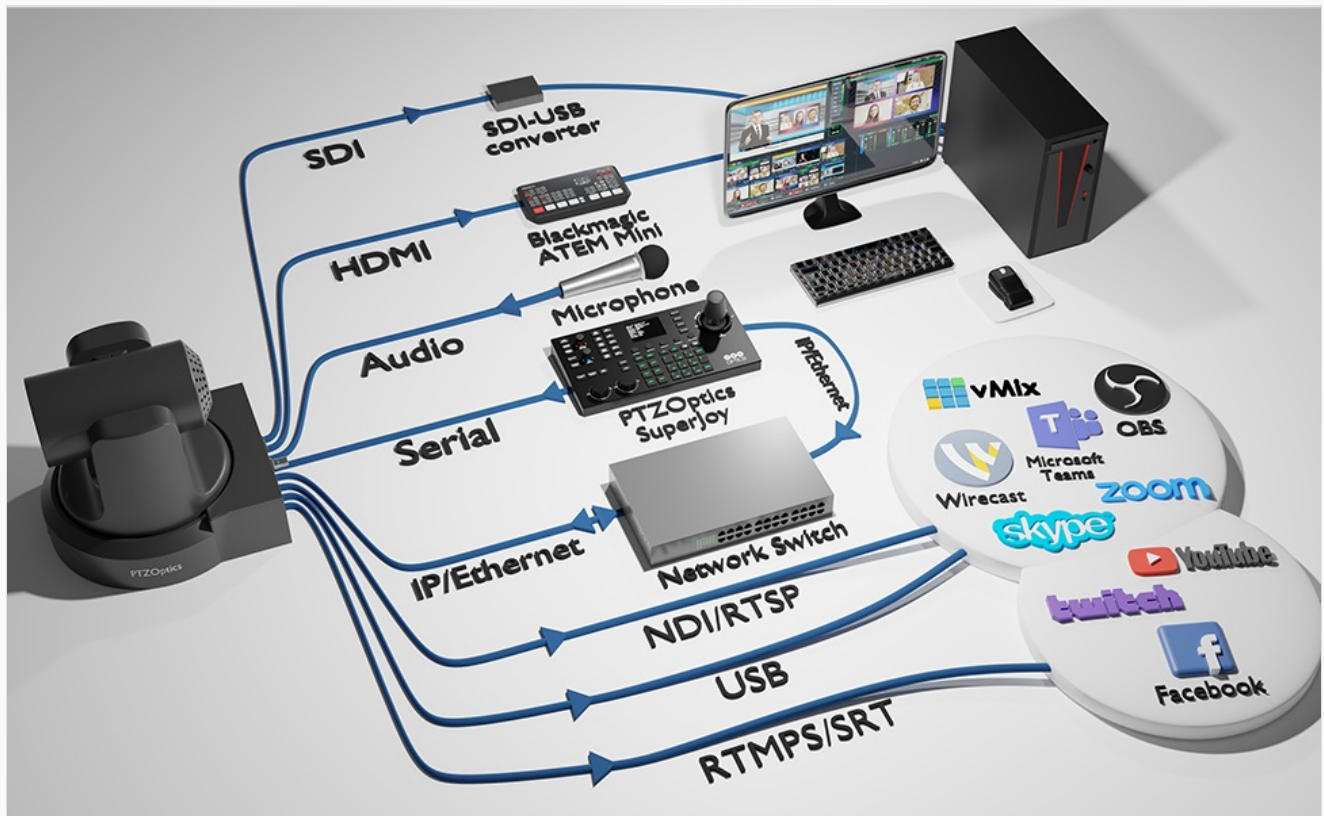


Image: A detailed connectivity diagram showcasing the PTZOptics camera's integration with various devices (SDI/USB converter, Blackmagic ATEM Mini, microphone, network switch) and streaming platforms (vMix, OBS, Microsoft Teams, Wirecast, Zoom, Skype, YouTube, Twitch, Facebook) via multiple output protocols.

MAINTENANCE

1. Cleaning

To clean the camera lens, use a soft, dry cloth specifically designed for optical surfaces. For the camera body, use a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.

2. Firmware Updates

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

TROUBLESHOOTING

If you encounter issues with your PTZOptics Move SE camera, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the camera and a working power outlet. Check the power indicator light.
- **No Video Output:** Verify all video cables (HDMI, SDI, USB, Ethernet) are correctly connected. Ensure the display or receiving device is set to the correct input. Check camera resolution settings via the Web UI.
- **No Control Response:** Confirm the control method (IR remote, network, serial) is properly configured. For network control, ensure the camera and control device are on the same network and IP settings are correct. Check battery in IR remote.
- **Auto-Tracking Issues:** Ensure the environment has adequate lighting and the subject is clearly visible.

Review auto-tracking settings in the Web UI for correct zone definition and sensitivity.

- **Network Connectivity Problems:** Check Ethernet cable connection. Verify network settings (IP address, subnet mask, gateway) in the camera's Web UI. Ensure no IP conflicts exist on the network.

For further assistance, consult the PTZOptics support resources or contact technical support.

SPECIFICATIONS

Feature	Specification
Product Dimensions	9.1 x 9.1 x 9.1 inches
Item Weight	6.04 pounds
Item Model Number	PT20X-SE-GY-G3_ED1_1
Photo Sensor Technology	CMOS
Video Capture Resolution	1080p
Maximum Focal Length	30
Flash Memory Type	SD (for settings/firmware)
Video Capture Format	MP4 (for internal recording if supported)
Supported Audio Format	PCM
Connectivity Technology	HDMI, SDI, NDI, USB, IP, RS-232, RS-485
Color	Gray
Brand	PTZOptics
Manufacturer	PTZOptics

WARRANTY INFORMATION







For detailed warranty information regarding your PTZOptics Move SE camera, please refer to the official PTZOptics website or the warranty card included with your product. Warranty terms and conditions may vary by region and purchase date.

SUPPORT

If you require technical support, have questions about product features, or need assistance with advanced configurations, please visit the official PTZOptics support page on their website. You will find FAQs, knowledge base articles, software downloads, and contact information for their support team.

PTZOptics Official Website: <https://ptzoptics.com>

Related Documents - PT20X-SE-GY-G3

	<p>PTZOptics Move SE: Quick Start Guide for Video Production Cameras</p> <p>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.</p>
	<p>PTZOptics Studio SE HD Streaming Camera - Specifications and Features</p> <p>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.</p>
	<p>PTZOptics Studio SE User Manual: Features, Specifications, and Operation</p> <p>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.</p>
	<p>PTZOptics 20X-SDI Broadcast & Conference Camera: Specifications and Features</p> <p>Detailed specifications, features, and control guide for the PTZOptics 20X-SDI 1080p broadcast and conference camera, featuring 20x optical zoom, 3G-SDI, HDMI, and IP streaming.</p>
	<p>PTZOptics Cameras and Video Production Equipment Datasheets</p> <p>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.</p>
	<p>PTZOptics 20X-USB Gen2 Broadcast & Conference Camera Datasheet</p> <p>Detailed specifications, features, and control guide for the PTZOptics 20X-USB Gen2 camera. This 1080p camera offers 20X optical zoom, USB 3.0, HDMI, and IP streaming (H.264, H.265, MJPEG) for professional broadcasting and video conferencing.</p>