

PTZOptics Move SE

Product Manual



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Move SE

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FEATURES



QUICK START GUIDE



POWER



CONNECTIONS



IR REMOTE



OSD



NETWORKING



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PRESETS



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TECHNICAL SPECS

Move SE Quick Start Guide



Setting up your PTZOptics camera is fast and easy with the setup cards below. Each card provides clear, step-by-step instructions to help you connect, configure, and power your camera in minutes. Simply follow the cards in order to get your camera up and running.



POWER



STREAMING



NETWORKING



PRESETS

Part Numbers

PTxxx-SE-xx-G3

Color	Optical Lens Zoom Level	Part Number
Gray	12X	PT12X-SE-GY-G3
Gray	20X	PT20X-SE-GY-G3
Gray	30X	PT30X-SE-GY-G3
White	12X	PT12X-SE-WH-G3
White	20X	PT20X-SE-WH-G3
White	30X	PT30X-SE-WH-G3

Packing List

- Move SE Camera
- AC Power Supply
- USB C-A Cable
- RS-232C Cable
- Quick Start Guide
- IR Remote
- 2 AAA Batteries
- Lens Cap

Features

Auto-Tracking with Extended Options: The camera automatically follows a person in motion. The extended options include selecting where the camera will pick up the target and the ability to choose from multiple targets on the fly.

Auto-framing: Lets the camera automatically adjust the frame size according to subjects within its field of view.

Video Templates: Select the best performance IP video streams for your project with easily selectable video templates for NDI and IP streaming.

White Balance Modes: Adjusts the color balance in your images, specifically focusing on the color white. Different lighting conditions can change the color of white, which may alter other colors in the image. White balance modes can help correct for various types of lighting, such as sunlight, shade, tungsten, and fluorescent, so that the white in your image remains true and other colors are displayed accurately.

Exposure Modes: The camera offers several exposure modes to help you determine the correct combination of aperture, shutter speed, and gain to achieve the perfect exposure. Different modes include manual (where you control everything), auto (the camera decides), SAE (where you control the shutter speed and the camera handles the rest), AAE (where you control the aperture and the camera handles the rest), Bright where you set a target brightness level and the camera adjusts all settings to achieve that brightness, and One Push lets the camera automatically adjust exposure settings based on a single button press. The user can adjust Gain. To perform a one push exposure adjustment, click the icon next to the exposure mode dropdown with OnePush selected.

On-Camera Firmware Updates: You can update the camera's firmware directly from the camera itself. Firmware is the low-level software that controls the camera's hardware. Being able to update it directly on the camera simplifies the process and ensures you can easily have the latest features and bug fixes.

Profiles: Adapt to different shooting situations quickly using your own custom profiles. For example, you might have one profile for indoor shooting, another for outdoor shooting, and another for low-light conditions. A profile can save settings such as white balance, exposure, and frame rate, among others.

Simple Network Discovery: Trouble-free discovery of any connected PTZOptics camera on your network. PTZOptics cameras can be found by entering <http://ptzoptics.local> into any web browser. You can then change your camera's IP address or set a custom camera ID. For example, you could set your camera's ID to "mycamera.local". Enter that into a web browser and you're there.

NTP for NDI sync: Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. This can be used to ensure that the timestamps on the Network Device Interface (NDI) streams from your cameras are accurate and synchronized, ensuring that your video streams are in sync with each other and with any other networked devices.

Multicast/Unicast: Data transmission over a network. In multicast, data is sent simultaneously to multiple recipients. In unicast, data is sent from a single sender to a single receiver. Depending on your network setup and the requirements of your video stream. Choose what works for you.

12X, 20X, 30X Optical Zoom Models: High resolution 1080p telephoto models in 12X, 20X, or 30X opticalzoom **1080p HD:** Next-generation SONY UHD CMOS sensor for shooting high-quality video at 60 FPS, with the flexibility to adjust numerous other resolutions and frame rates.

HDMI 1.3: HDMI 1.3 can directly output 1080p uncompressed digital video.

Low Light: An ultra-high SNR (Signal-to-Noise Ratio) can reduce image noise in low-light conditions. Meaning you see what matters, and your image isn't polluted with digital noise.

2D & 3D Noise Reduction: Produces a clean, clear image, even in low light, with a signal-to-noise ratio as high as 55 dB.

Built-in Gravity Sensor: Built-in automatic image flip function, convenient for installation.

Multiple Interfaces: Supports Simultaneous USB 3.0, HDMI 1.3 / 3G-SDI / IP streaming (SRT, RTSP, RTMP) (HDMI & SDI are not simultaneous)

Multiple Control Options: Controllable via IR remote, network connection, RS-232, RS-485, and the USB port.

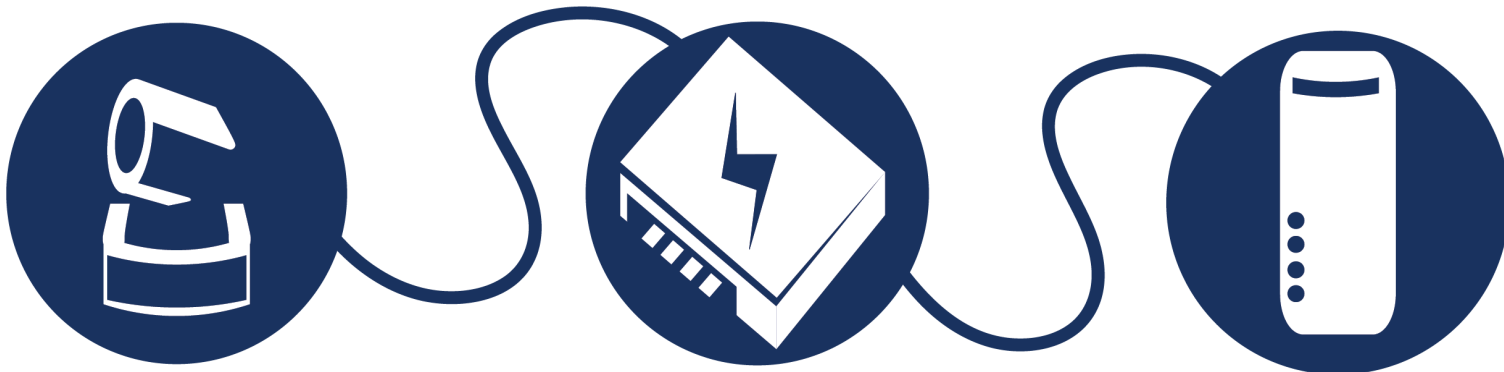
Power

The **Move SE** can be powered using the included **power supply** or **Power over Ethernet**. Please make sure all connections are secure when using either method.

When the camera is turned on, it will perform a short startup sequence going through its full range of motion.

i NOTE

Power over Ethernet, or PoE, provides power and network connection. To power your camera over Ethernet, you will need a PoE source that supports PoE (802.3af). We recommend connecting your camera to the switch for peak performance using Cat 6 cabling or better. See the example of a power over Ethernet connection below.



Camera

Power Over Ethernet Switch

Computer

Camera Startup

PTZOptics cameras perform a short startup sequence going through their full range of motion when powered on. **(Stationary cameras or box cameras will also perform a startup sequence, going through their full zoom range.)**

When the sequence is complete, the camera will stop and return to preset 0, as long as you've previously set preset 0, or the Home position.

Device Powering Options

Product	Power Supply	Power Consumption	Power Over Ethernet Type
Move 4K	JEITA type (DC IN 12V)	Max 2.0A	PoE+ (802.3at)
Move SE	JEITA type (DC IN 12V)	Max 2.0A	PoE (802.3af)
Link 4K	JEITA type (DC IN 12V)	Max 2.0A	PoE+ (802.3at)
Studio Pro	JEITA type (DC IN 12V)	Max 2.0A	PoE (802.3af)
Studio 4K	JEITA type (DC IN 12V)	Max 2.0A	PoE (802.3at)
Studio SE	JEITA type (DC IN 12V)	Max 2.0A	PoE (802.3at)
SimpliTrack3	JEITA type (DC IN 12V)	Max 1.0A	PoE (802.3af)
PT-SUPERJOY-G1	JEITA type (DC IN 12V)	Max 0.5A	PoE (802.3af)
PT-JOY-G4	JEITA type (DC IN 12V)	Max 0.5A	PoE (802.3af)

Connections



Move SE Connection List

1. 3.5mm Audio Input
2. 3.5mm Audio Output
3. Kensington Lock
4. Resolution Dial
5. RS-485 Interface
6. RS-232 Input
7. RS-232 Output
8. DC 12V Power
9. LAN NDI
10. USB 2.0 Service Port
11. 3G-SDI
12. HDMI 1.3 Output
13. USB 3.0 Type C Output
14. Restore Button

Serial Connection Guide

Serial refers to the RS-232 and RS-485 connections from the camera to a joystick controller using the same connection.

RS-232 Overview

This uses an 8 Pin Mini-Din connector.

No.	Function
1.	DTR
2.	DSR
3.	TXD
4.	GND
5.	RXD
6.	GND
7.	IR Out
8.	NC

Initial Connection

Camera	Windows DB-9	Connection Direction
1. DTR	CD	Camera DTR to Windows DTR & CD to none
2. DSR	RXD	Windows TDX to Camera DSR
3. TXD	TXD	Camera TDX to Windows RXD
4. GND	DTR	Camera GND to Windows GND

Camera	Windows DB-9	Connection Direction
5. RXD	GND	Two way from Camera RXD to Windows TDX
6. Unused	DSR	None
7. Unused	Unused	None
8. Unused	Unused	None
9. Unused	Unused	None

Daisy Chain Control Connection

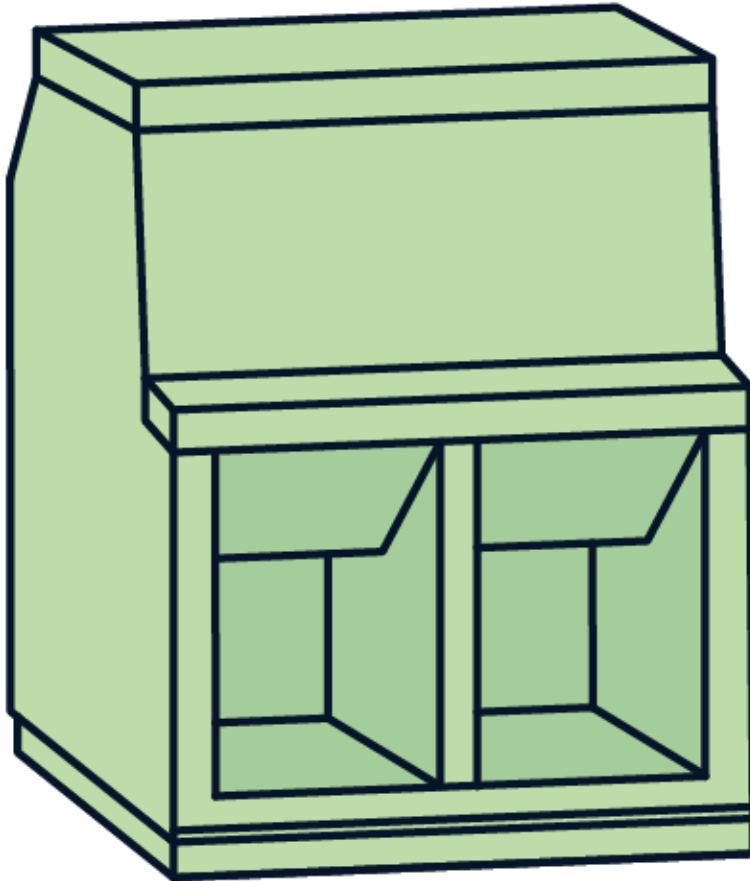
Camera	Mini DIN	Connection Direction
1. DTR	DTR	Camera DTR to Windows DSR & CD to none
2. DSR	DSR	Windows DTR to Camera DSR
3. TXD	TXD	Camera TDX to Windows RXD
4. GND	GND	Two way from Camera GND to Windows GND
5. RXD	RXD	Windows TDX to Camera RXD
6. Unused	Unused	None
7. Unused	Unused	None
8. Unused	Unused	None

RS-232 Parameters

- **Baud Rate:** 2400, 4800, 9600 or 38400 bps
- **Start Bit:** 1 bit
- **Data Bit:** 8 bits
- **Stop Bit:** 1 bit

- **Parity Bit:** None

RS-485 Overview



The left phoenix connector port is Positive (+)The right phoenix connector port is Negative (-).

The camera can be controlled via RS-485, Half-duplex mode, with support for VISCA, Pelco-D, or Pelco-P protocol.

RS-485 Parameters

- **Baud rate:** 2400/4800/9600/38400;
- **Starting position:** 1 bit
- **Data bit:** 8 bits
- **Stop bit:** 1 bit

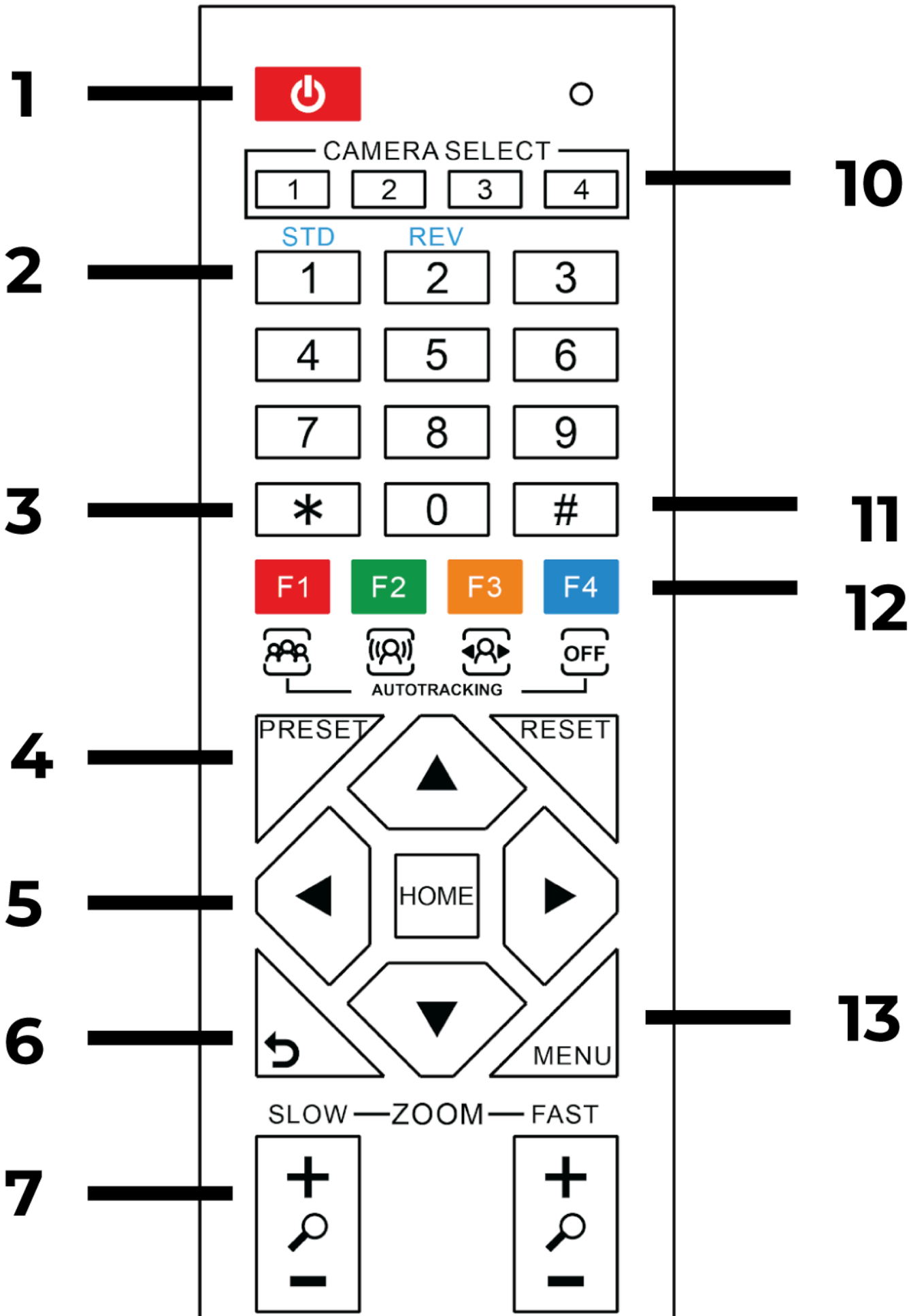
- **Check digit:** None

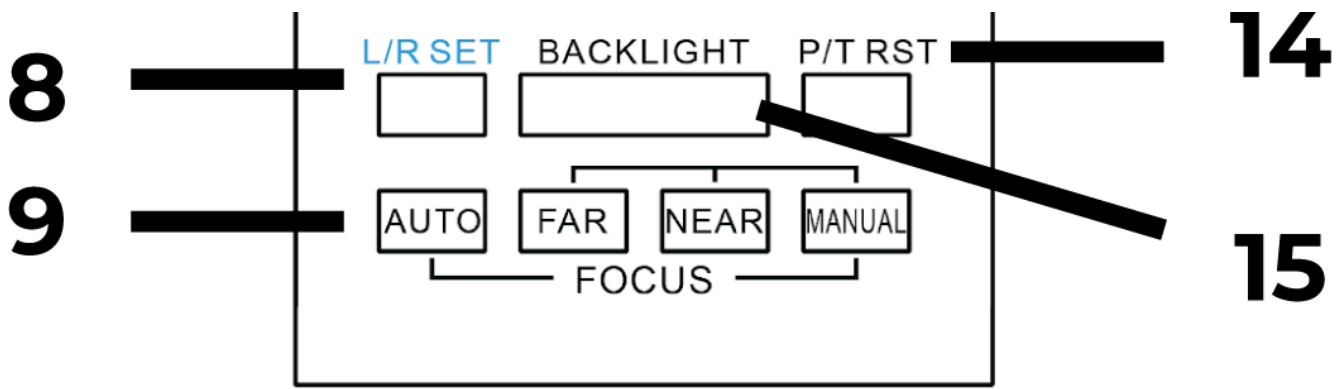
 **NOTE**

To utilize an RS-485 connection, you will need an unterminated two-conductor cable

1. Connect the positive (red) wire to the camera's positive phoenix connector port (left).
2. Connect the negative (black) wire to the camera's negative phoenix connector port (right).
3. Connect the positive and negative wires to the positive and negative ports on your joystick controller.
 - To connect multiple cameras, you have the option to connect via daisy-chain or home run.
4. In either method, multiple wires will be connected to a single phoenix connector port

IR Remote





PTZ Optics IR Remote Button Descriptions

1. **Standby Button** Press this button to enter standby mode. Press it again to enter normal mode.

! INFO

Power consumption in standby mode is approximately half of the normal mode.

2. **Number Keys** Press to set or call preset camera position or input a number.
3. **Star Sign Button** Used predominantly when calling shortcuts.
4. **Set / Clear Presets** To Set a Preset (save a camera position and image settings), press **[PRESET]** + any number zero through nine. To Clear a Preset (erase a camera position), press **[RESET]** + any number zero through nine. To erase all presets, press **[*]** + **[#]** + **[RESET]**
5. **Pan / Tilt Control Buttons** Press the **[LEFT or RIGHT]** arrow to pan. Press the **[UP or DOWN]** arrow to tilt. Press the **[HOME]** button to return the camera to the factory default front facing home position.
6. **Return Button** Press the **[RETURN]** button to go back to a previous menu within the on screen display (OSD).
7. **Zoom Buttons** Press **[+]** to zoom in (Slow and fast speed). Press **[-]** to zoom out (Slow and fast speed).
8. **L / R Set Buttons** Set the Left & Right directional buttons for the remote. Press the following buttons simultaneously. Press **[L/R SET]** + **[1]**: Buttons function normally. Press **[L/R SET]** + **[2]**: Buttons function inverted.
9. **Focus Buttons** Pressing **[AUTO]** tells the camera to focus the image on the center object. Pressing **[Manual]** switches the camera to manual focus mode. Press **[FAR]** to focus on a far object. Press **[NEAR]** to focus on a near object.

10. **Camera Select Buttons** Press **1**, **2**, **3**, or **4** to select the corresponding camera. Cameras must be set to the corresponding IR address to be controlled by the remote. To do this, press **[*]** + **[#]** + **[F1]** for Camera 1, **[F2]** for Camera 2, **[F3]** for Camera 3, and **[F4]** for Camera 4.

11. **# Button** For multiple functions. Typically used when calling shortcuts.

12. Multi-Function Buttons

Function 1: Auto-Tracking Control

- **[F1]**: Enable video-based auto-framing (Non-functional)
- **[F2]**: Enable audio-based auto-tracking (Non-functional)
- **[F3]**: Enable video-based auto-tracking
- **[F4]**: Disable auto-tracking

Function 2: For setting camera IR address. Press these 3 keys one after another to set the camera IR address as follows:

- **[*]** > **[#]** > **[F1]**: Address 1
- **[*]** > **[#]** > **[F2]**: Address 2
- **[*]** > **[#]** > **[F3]**: Address 3
- **[*]** > **[#]** > **[F4]**: Address 4

Function 4: Image Freeze

- **[#]** > **[*]** > **[F4]**: Freeze the video feed. Repeat to unfreeze.

13. **Menu Button** Press **[MENU]** to open the camera's On Screen Menu (OSD). Press **[MENU]** again to close the OSD.

14. **P / T RST Button** Perform camera self-calibrate pan and tilt movement.

15. **Backlight Button** Use to enable or disable backlight compensation. Note: Only effective in auto exposure mode. Note: If there is light behind the subject, they may appear darker. In this case, use Backlight Compensation to enhance image.

NOTE

Although this remote can be used to control both PTZOptics Pan Tilt Zoom cameras and PTZOptics Studio Cams, the **P / T RST Button** will not self-calibrate Studio Cams.

OSD

On-Screen Display

Main Menu

Press the [Menu] button to display the OSD Menu. Use the arrow keys to navigate the OSD menu, the [Home] button to make selections, and the [Return] button to go back.

Opening the On-Screen Display, provides the list of sub-menus seen below.

1. Exposure
2. Color
3. Image
4. P / T / Z
5. Noise Reduction
6. Setup
7. Information
8. Restore Default

Exposure

The following table lists the exposure settings and their default values.

Exposure Mode	
Options	Auto, Manual, SAE, AAE, Bright
Default	Auto

Exposure Modes Explained

- **Auto:** The camera automatically adjusts Iris, Shutter, and Gain to achieve optimal exposure.

- **Manual:** The user manually sets Iris, Shutter, Gain, and Dynamic Range Control (DRC) for precise exposure control.
- **SAE (Shutter Automatic Exposure):** The user manually sets Shutter, Gain Limit, Meter Region, and DRC while the camera automatically adjusts Iris for optimal exposure.
- **AAE (Aperture Automatic Exposure):** The user manually sets Iris, Gain Limit, Anti-Flicker, Meter Region, and Dynamic Range Control (DRC) while the camera automatically adjusts Shutter for optimal exposure.
- **Bright :** The user manually sets Bright (Brightness) Gain Limit, Anti-Flicker, Meter Region, and Dynamic Range Control (DRC) while the camera automatically adjusts Iris and Shutter for optimal exposure in low-light conditions.

Additional Exposure Settings

Exp-Comp	
Options	-7 ~ +7
Default	0
Note	<i>Available only while ExpCompMode is On.</i>

Exp-CompMode	
Options	On, Off
Default	Off
Note	<i>Effective only in Full Auto mode.</i>

Gain Limit	
Options	0 ~ 15
Default	3
Note	<i>Available only in Full Auto, AAE, Bright mode.</i>

Meter	
Options	Average, Center, Smart, Top
Default	Average
Note	<i>Available only in Full Auto, SAE, AAE, Bright.</i>

Backlight	
Options	On, Off
Default	Off
Note	<i>Available only in Full Auto mode.</i>

Bright	
Options	Off, 50Hz, 60Hz
Note	<i>Available only in Full Auto, AAE, Bright mode.</i>

DRC	
Options	0 ~ 8
Default	3

Anti-Flicker	
Options	Off, 50Hz, 60Hz
Default	60Hz
Note	<i>Effective only in Full Auto, AAE, mode.</i>

Iris

Iris

- F1.8
- F2.0
- F2.4
- F2.8
- F3.4
- F4.0
- F4.8
- F5.6
- F6.8
- F8.0
- F9.6
- F11.0
- Close

Note

Available only in Manual, AAE mode.

Shutter

Shutter

- 1/30
- 1/60
- 1/90
- 1/100
- 1/125
- 1/180
- 1/250
- 1/350
- 1/500
- 1/750
- 1/1000
- 1/1500
- 1/2000
- 1/3000

Shutter	
	<ul style="list-style-type: none"> • 1/4000 • 1/6000 • 1/10000
Note	<i>Available only in Manual, SAE mode.</i>

Color

The following table lists the color settings and their default values.

WB Mode (White Balance)	
Options	Auto, Indoor, Outdoor, One Push, Manual, VAR
Default	Auto

AWB Sen (Auto White Balance Sensitivity)	
Options	Low, Middle, High
Default	Low
Note	<i>Only available in Auto White Balance mode and One Push.</i>

RG Tuning	
Options	-10 ~ +10
Default	1
Note	<i>Only Available in Auto, One Push, VAR mode</i>

BG Tuning**Options**

-10 ~ +10

Default

2

Note*Only Available in Auto, One Push, VAR mode***Saturation****Options**

20% - 200%

Default

90%

Hue**Options**

0 ~ 14

Default

8

R Gain**Options**

0 ~ 255

note*Only available in Manual modes.***B Gain****Options**

0 ~ 255

note*Only available in Manual modes.***Color Temp****Options**

2500K ~ 8000K

note*Only Available in VAR mode.*

Image

The following table lists the image settings and their default values.

Luminance	
Options	0 ~ 14
Default	7

Contrast	
Options	0 ~ 14
Default	10

Sharpness	
Options	Auto, 0 ~ 11
Default	3

B&W Mode	
Options	On, Off
Default	Off

Flip-H	
Options	On, Off
Default	Off

Flip-V	
Options	On, Off

Flip-V	
Default	Off

Gamma	
Options	Default, EXT, 0.45, 0.5, 0.56, 0.63
Default	Default

Image Style	
Options	Default, Norm, Clarity, Soft, Vivid, User
Default	Clarity

P / T / Z

The following table lists the pan, tilt, and zoom settings and their default values.

D-Zoom Limit	
Options	On, Off
Default	Off

Speed By Zoom	
Options	Faster, On, Off.
Default	On
Note	<i>Determines the camera's pan and tilt speeds based on the distanced zoomed in. Closer = Slower. SpeedByZoom Feature only applicable to IR Remote.</i>

L/R Set	
Options	STD, REV
Default	STD

Display Info	
Options	On, Off
Default	On

Image Freeze	
Options	On, Off
Default	Off

Call Preset Speed	
Options	1 ~ 24
Default	12

Pre Zoom Speed	
Options	0 ~ 7
Default	5

Noise Reduction

Adjusts the levels of digital noise reduction.

2D NR	
Options	Auto, 1 ~ 5

2D NR	
Default	Auto

3D NR	
Options	Auto, 1 ~ 8
Default	Auto

Setup

The following functions adjust the camera setup settings.

Language	
Options	English, Chinese
Default	English

Video Setting (Opens the Video Settings Sub Menu)	
Sub Menu Options	DVI Mode, Video Output
DVI Mode	Define HDMI Data Transfer type. Options include: HDMI, DVI
Video Output	Configure the Video Output. Options include: USB/IP, USB/HDMI-SDI, HDMI-SDI/IP, All-30FPS
Format Mode	Choose OSD, 50Hz, or 60Hz.

Audio Setting (Opens the Audio Settings Sub Menu)	
Sub Menu Options	Audio Source, Audio Out

Audio Setting (Opens the Audio Settings Sub Menu)

Audio Source	Line (only option).
Audio Out	Choose between HDMI, Line Out, or Off.

Focus Setting (Opens the Focus Settings Sub Menu)

Sub Menu Options	AF-Sense, AF-Zone, AF-Limit, Focus Lock
AF-Sense	Auto-focus Sensitivity: Low, Normal, High
AF-Zone	Auto-focus Zone (Where the camera focuses in frame): Center, Front, Top, Bottom
AF-Limit	Select the autofocus zone: Center, Top, Bottom, or Front.
AF Limit	Auto-focus Limit: Off, On
Focus Lock	Lock or Unlock the focus settings.

⚠ IMPORTANT

When Auto Focus Limit is On, you will be able to adjust the Far Limit and Near Limit in meter increments:

- **Far Limit:** INF, 1M, 1.5M, 2M, 3M, 4M, 5M, 6M, 8M, 10M, 15M, 20M
- **Near Limit:** INF, 1M, 1.5M, 2M, 3M, 4M, 5M, 6M, 8M, 10M, 15M, 20M

USB Setting (Opens the USB Settings Sub Menu)

Sub Menu Options	H264 Enable, USB Mode, UVC Standby Mode, Wakeup Pos
H264 Enable	Off, On

USB Setting (Opens the USB Settings Sub Menu)	
USB Mode	Bulk, ISOC
UVC Standby Mode	Off, On
Wakeup Pos	(The position the camera returns to after exiting standby Mode) Preset Zero, Preset UVC

Communication Setting

The following functions adjust the communication settings.

Protocol	
Options	VISCA, PELCO-D, PELCO-P
Default	VISCA

V_Addres	
Options	1 ~ 7
Default	1

V-AddrFix	
Options	Off, On
Default	Off

Net Mode	
Options	Serial, Parallel
Default	Serial

Baudrate	
Options	2400, 4800, 9600, 38400
Default	9600

P_D_Address	
Options	0 ~ 254
Default	1

P_P_Address	
Options	0 ~ 31
Default	1

Other Setting

The following functions adjust other camera settings.

OSD Flip	
Options	Off, On
Default	Off

OSD TimeOut	
Options	Off, 5s, 10s, 15s, 20s, 30s
Default	Off

OSD TimeOut	
Note	<i>Sets the amount of time the OSD menu remains on screen before automatically turning off. If set to "Off", OSD will remain on screen until manually turned off.</i>

LDC	
Options	Off, On
Default	Off
Note	<i>Slightly Adjust and compensate for lens any lens distortion</i>

Keypad	
Options	Active, Lock
Default	Active
Note	<i>Active: Side keypad is functional. Lock: Side keypad is disabled.</i>

Custom 1 func	
Custom Options	Preset 0 ~ Preset 9, Home, Focus Near, Focus Far, Iris Open, Iris Close, Zoom Wide, Zoom Tele, Auto Focus, Exposure Lock, Privacy Mode, Image Freeze
Default	Preset 0
Note	<i>Custom buttons can be found on the side of the camera body. These buttons can be programmed to perform specific functions for quick access.</i>

Custom 2 func	
Custom Options	Preset 0 ~ Preset 9, Home, Focus Near, Focus Far, Iris Open, Iris Close, Zoom Wide, Zoom Tele, Auto Focus, Exposure Lock, Privacy Mode, Image Freeze
Default	Preset 1
Note	<i>Custom buttons can be found on the side of the camera body. These buttons can be programmed to perform specific functions for quick access.</i>

Information

This menu displays the camera information.

Version	
Displays the firmware version number	e.g. 8.1.88

Model	
Displays the camera model version	e.g. P11.HI

Date	
Displays the date	e.g. 2025-01-09

AF Version	
Displays the Auto Focus firmware version number	e.g. 14.4.55

Video Format

Displays the current video format

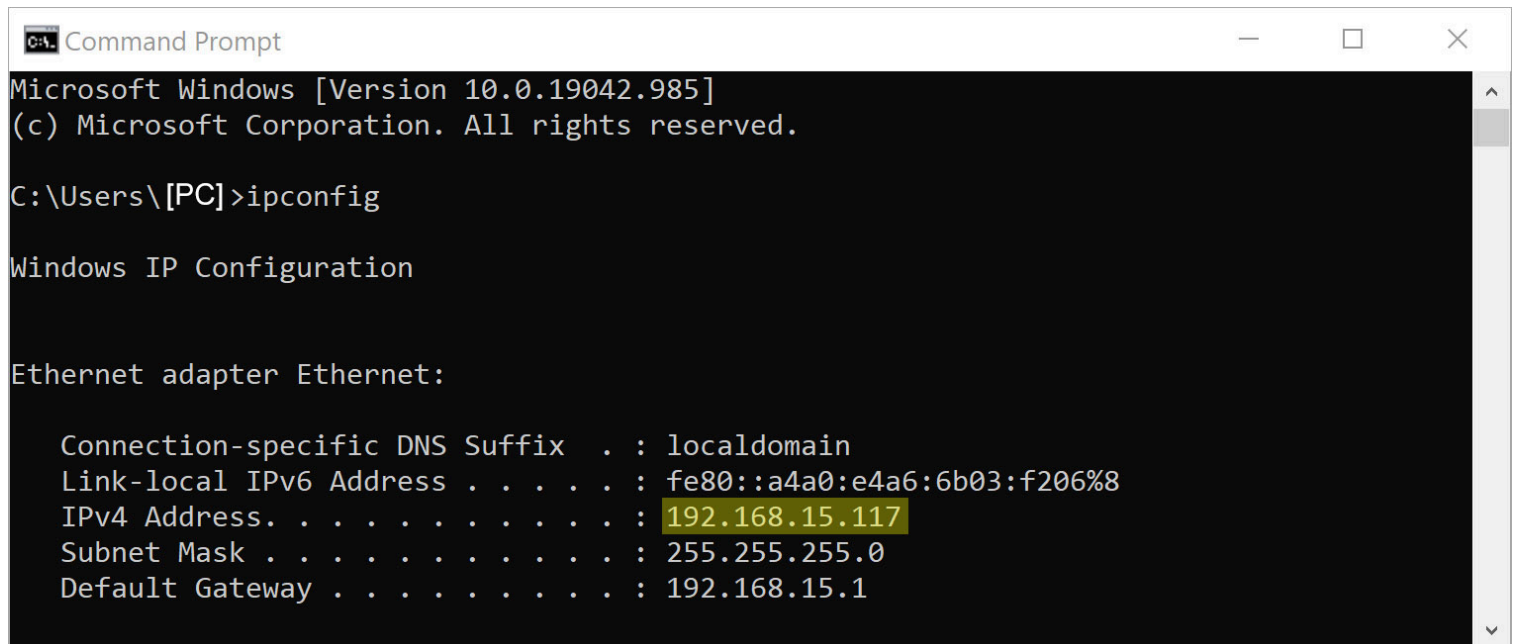
e.g. 1080P60

Networking

Discovering Your Network

Windows

1. Open the Start menu and type “CMD” into the search bar.
2. Once the Command Prompt is open, type in “ipconfig” and press the Enter key.
3. Scroll down to the section titled “Ethernet adapter Ethernet” or “Ethernet adapter Wireless Network Connection”.
4. Locate the “IPv4 Address” in that section. This is your computers local IP address.
5. In the example below, the PC’s local address is “192.168.15.117”, making the network range “192.168.15.xxx”.



```
Command Prompt
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\[PC]>ipconfig

Windows IP Configuration

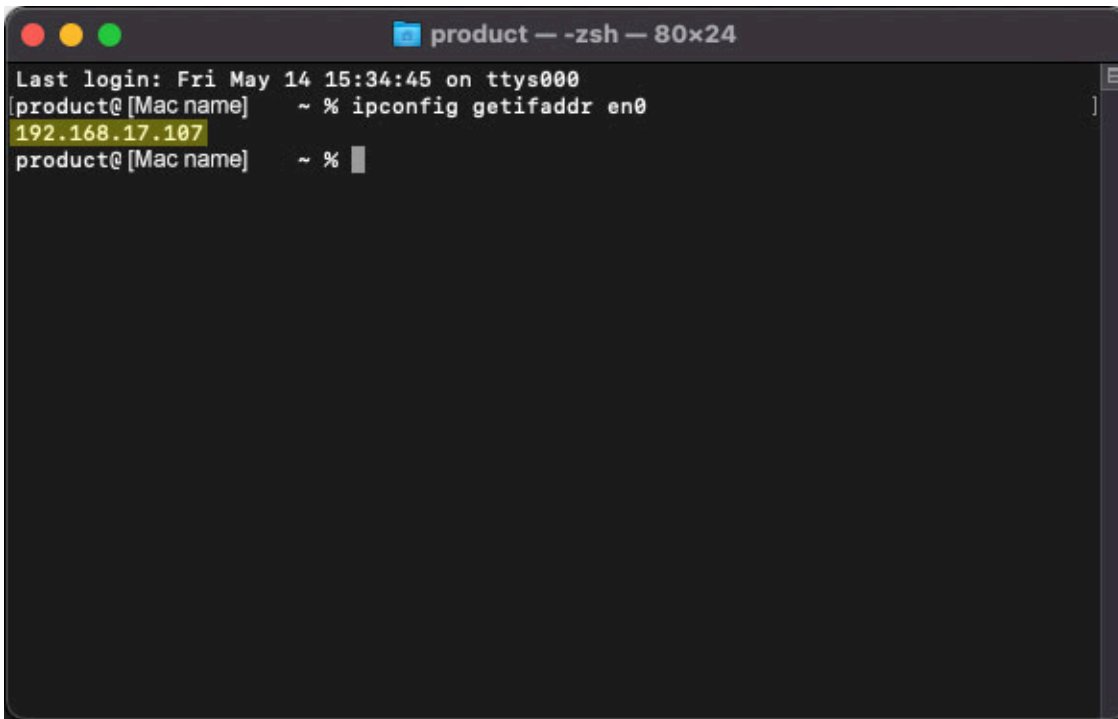
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : localdomain
    Link-local IPv6 Address . . . . . : fe80::a4a0:e4a6:6b03:f206%8
    IPv4 Address. . . . . : 192.168.15.117
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.15.1
```

Mac

1. Open a new Finder window and go to the Applications folder.

2. Open the Utilities folder and select the Terminal program.
3. Once the Terminal program is open, type in “ipconfig getifaddr en0” and press the Enter key.



```
product — zsh — 80x24
Last login: Fri May 14 15:34:45 on ttys000
[product@[Mac name] ~ % ipconfig getifaddr en0
192.168.17.107
product@[Mac name] ~ %
```

Finding the Camera’s IP Address

Method 1: Use a Internet browser and type in “[http:// ptzoptics.local/](http://ptzoptics.local/)” to reach the camera’s web interface. You will be prompted to set up a username and password. Once logged in, click on the Network Settings tab to make adjustments to the camera’s network settings.

Method 2: Run an HDMI cable from the camera to a display. Use the IR remote shortcut [*] > [#] > [4] to display the camera’s IP address.

NOTE

If you are setting up multiple cameras, it’s recommended to do so one at a time.

TIP

Assign a unique Device ID to each camera from the Web UI’s Device Info tab. This will allow you to reach each camera’s web interface without needing to memorize an IP address. For example, “<http://cameraOne.local/>” and “<http://cameraTwo.local/>”.

Network Joystick Connection

PTZOptics carries two joysticks, the **PT-SUPERJOY-G1**, and the **PT-JOY-G4**, that can be used to control a camera via a network connection.

Steps

1. Ensure the camera and the PTZOptics IP joystick are connected to the same network.
2. Press the **[SETUP]** button on your joystick, and select option one (1) “Network Device” for IP.
3. Fill in the Network Device field to connect the camera. The fields are as follows:
 - **Channel:** (For SuperJoy users enter 1 ~ 9 in the **Group** field) Joystick Camera Address [CAM ID]
Options include 1 - 255.
 - **Protocol Select**
 - **PT-JOY-G4 Protocol Options:**
VISCA (UDP), VISCA (TCP), Sony VISCA (UDP), ONVIF.
 - **PT-SUPERJOY-G1 Protocol Options:**
VISCA (UDP), VISCA (TCP), Sony VISCA (UDP), ONVIF, NDI, & Panasonic Control
 - **IP:** Enter the Camera IP Address Here
 - **Ctrl Port:** Enter the camera control port.
4. Once the above fields are filled, press the **[ENTER]** button to save the camera to the controller.

Control Port Numbers

- **UDP** 1259
- **TCP** 5678
- **Sony VISCA Protocol** 52381



TIP

One way to find the camera's control port number is to go to its web user interface.

Type the camera's IP address into a web browser and log in using your credentials.

Click the Control tab, then click the Ports tab below. Here, you can see the available control protocols.

Resetting the Camera's IP Address Using the IR Remote

Press the following buttons in the order shown below:

[*] > [#] > [MANUAL]

This will reset IP information to default.

 **NOTE**

The default mode is DHCP.

Use one of the following codes with the IR remote to assign a specific IP address to your camera.

Input Sequence	IP Address
[#] > [*] > [#] > [1]	192.168.100.81
[#] > [*] > [#] > [2]	192.168.100.82
[#] > [*] > [#] > [3]	192.168.100.83
[#] > [*] > [#] > [4]	192.168.100.84
[#] > [*] > [#] > [5]	192.168.100.85
[#] > [*] > [#] > [6]	192.168.100.86
[#] > [*] > [#] > [7]	192.168.100.87
[#] > [*] > [#] > [8]	192.168.100.88
[#] > [*] > [#] > [9]	192.168.100.89
[#] > [*] > [#] > [0]	192.168.100.80

Video

Choosing a Resolution & Frame Rate

We recommend setting the resolution and frame rate before getting started. To do this, turn the yellow System Select dial on the back of the camera to the desired setting.

Dial Position	Output	Dial Position	Output
0	1080p 60	8	1080p 30
1	1080p 50	9	1080p 30
2	1080P 30	A	1080P 60
3	1080P 30	B	1080p 59.94
4	720p 60	C	1080p 29.97
5	720p 50	D	1080p 30
6	1080p 30	E	1080p 30
7	1080P 25	F	1080P 30

Streaming

NDI® HX3 Connection

The NDI HX3 connection allows you to connect and control the camera through any NDI compatible hardware or software on a Local Area Network. Once the camera is setup on a LAN, you can utilize the NDI HX3 connection.

NDI Setup

1. Download and install the latest NDI Tools from [NDI Tools](#)
2. This camera's NDI settings can be configured from the camera's web interface in the NDI settings tab.
3. Select the camera within the NDI compatible device. The NDI feed will utilize the camera's device-friendly name.

INFO

Vizrt NDI®, NDI 4, 5, 6, NDI HX, NDI HX2, and NDI HX3 are all registered trademarks by Vizrt. Please note that your NDI License key is non-transferable.

RTMP Streaming

The Move SE camera can send two RTMP(S) streams. To use your camera with an RTMP stream, you will need a Stream URL & Stream Key, from a CDN or from the social network to which you want to stream.

Steps

1. Once you have the Stream URL & Stream Key, log into Web UI.
2. Navigate to the Streaming Settings page. In the RTMP(S) Settings section, enter the Stream URL & Stream Key you received from the CDN or social network.
3. Ensure you turn your RTMP stream “**On**” by enabling the appropriate stream, and click the **Apply** button.

RTSP Streaming

The Move SE camera is able to send an RTSP stream for viewing video through a LAN.

Using VLC or another RTSP enabled video program, type the following string into your network streaming section:

- **Stream 1 (HD):**
 - `rtsp://[IP ADDRESS]:554/1`
- **Stream 2 (SD):**
 - `rtsp://[IP ADDRESS]:554/2`

If you do not know the IP address of your camera, refer to the Finding the Camera's IP Address section.

Presets

Setting & Calling Presets

The PTZOptics Move 4K, the Move SE, and the Link 4K cameras all utilize the same newly upgraded camera presets system. This section explains how to get the most out of presets and how to properly use them.

Steps

Step 1. Lighting: Before adjusting the camera's settings and saving presets, it is extremely important that you are satisfied with the lighting in the area you plan to operate the camera.



TIP

The easiest lighting to work with, is often referred to as “flat lighting”, meaning the lighting is as evenly dispersed as possible throughout the scene.

Step 2. Default: We recommend setting all of the camera's image settings, exposure settings, color settings, and focus settings to default before setting up presets. The default settings can be found in the On-Screen Display section of this menu. To set the camera's image settings to their defaults, use the Restore Default menu in the on-screen display, or set them to default in the camera's Web UI.



NOTE

Saving a preset saves the camera position as well as all the image settings it had at that exact time.

When panning, tilting, and zooming the camera, all image settings will stay set to their last applied saved values unless the camera is in automatic modes such as auto-exposure.

Step 3. Preset Zero: With all the image settings defaulted, the first preset to establish is Preset Zero. This preset, will essentially serve as the baseline reference point.

Follow the steps below to establish preset zero.

1. Zoom the camera all the way out and point it at the center-most location in the scene.
2. Adjust any of the camera's image settings until satisfied with the look/style of the image.

3. Press [PRESET] then [0] using the IR Remote.

4. Preset zero is now saved.

 **NOTE**

When using a preset as a start location for auto-tracking , the camera will call that preset and utilize the image settings saved to it.

For example, if a preset is saved with an exposure compensation setting of -3, auto-tracking will automatically move to that preset location and set the exposure compensation to -3.

The camera will switch to the settings saved to the preset regardless of the image settings used before auto-tracking is enabled.

Step 4. Standard Presets: These presets can be assigned to any number between 1 and 254.

1. Begin by calling preset zero.

 **TIP**

Its recommended to take a screenshot of preset zero to help color match new presets or camera shots from different cameras.

Its also helpful to pull the camera's video feed into live streaming software such as Vmix or OBS for viewing and comparison. To properly compare image quality, ensure you are using the same monitor or screen.

2. Move the camera into the position intended to save as a preset.

3. Compare the new preset position with preset zero to ensure they match. Most of the time they will not be an exact match, because different areas have different lighting that requires different settings.

4. Make adjustments to the image settings to color match with preset zero.

Step 5. Save the Preset:

Keep the Move SE family on the current firmware and use the changelog to verify what changed before you update.

UPDATE PATH

Firmware Instructions

Follow the step-by-step upgrade flow for the Move SE web interface.

[Open instructions](#)

RELEASE HISTORY

Firmware Changelog

Open the shared markdown release notes file that the team can extend by prepending new sections.

[View changelog](#)

Latest Firmware Files

Move SE 12X Firmware

Download firmware image



Move SE 20X Firmware

Download firmware image



Move SE 30X Firmware

Download firmware image



Instructions

Upgrading Your G3 Camera's Firmware

Steps

- **1.** Login to your camera's web interface by typing in its IP address or .local address. For example <http://ptzoptics.local>

IMPORTANT

If this is your first time logging in, you will be prompted to create a username and password.

- **2.** Once logged in, go to the **System Settings** page.
- **3.** Click on the **Check Firmware** button. If your firmware is not up to date, you will receive a pop-up notification that says, "Your firmware is out of date!". If it is up to date, the pop-up will read, "**Your firmware is up to date!"
- **4.** If you received the, "**Your firmware is out of date!**" notification, click the **Apply** button.
- **5.** You may be prompted to download multiple files. Click "**Allow**" to download the firmware and changelog files.
- **6.** You may be prompted to approve the download. Click the **Keep** button on the changelog to approve the download.
- **7.** Click the arrow to reveal the Advanced section of System Settings.
- **8.** Click the **Select File** button.
- **9.** Navigate to the Download folder and select the *.img firmware file.
- **10.** Click the **Apply** button to upload the firmware to the camera.
- **11.** A notification will popup informing you the firmware has been uploaded and will take a few minutes to complete. It may take some time for the notification to pop up, so do not attempt to reboot the camera or

exit the page.

- **10.** After 3 ~ 6 minutes, the firmware upgrade process will be complete. Reload the web interface to reveal the new features.
- **11.** Once logged in, press Shift + Ctrl + R to refresh the Web UI without cookies / cache.
- **12.** Navigate to the Device Information Page under Camera Config. The Firmware Version field will show the latest SOC version.

Move SE Release Notes

Updates on new features, fixes, and known issues for the Move SE family.

Current Firmware Files

Move SE 12X Firmware

Download firmware image



Move SE 20X Firmware

Download firmware image



Move SE 30X Firmware

Download firmware image



01/12/2026

[Move SE 12X - v9.1.46](#)

[Move SE 20X - v9.1.34](#)

[Move SE 30X - v9.1.39](#)

New Features

Video and Audio Enhancements

- **NDI 6 Upgrade:** Upgraded NDI support from NDI 5 to NDI 6 for improved compatibility, performance, and access to the latest NDI protocol features.
- **NDIHX3 Support:** Added support for NDIHX3. To enable, set the camera to HDMI-SDI/IP and toggle NDIHX3 to On. HX3 profiles can then be defined as needed.
- **Audio Sample Rate Support:** Added support for `44.1 kHz` and `48 kHz` audio sample rates (previously limited to `32 kHz`).
- **Resolved an RTMP issue** with compatibility errors when connecting to CDNs related to frame rate, keyframe intervals, and bitrate.
- **Audio Settings Page Reorganized:** Encoding and decoding settings were restructured for improved clarity and user experience. Settings are now grouped more logically to help users configure audio more efficiently.

Automation and Control

- Subject Switching: Added the ability to switch between tracked subjects using left/right arrows via web UI, IR remote, and VISCA joystick commands.
- Tracking Presets: Added dedicated presets for Auto Tracking control:

```
Preset 150 = Tracking ON  
Preset 151 = Tracking OFF
```

- HTTP Movement Status Query: Added a route to allow users to query whether the camera is actively moving. The endpoint returns a boolean response indicating Pan, Tilt, Zoom, or Focus motion.

NOTE

This status does not report focus movement when Auto Focus is enabled.

```
GET /api/v1/info/is-moving
```

Example:

```
GET http://192.168.100.88/api/v1/info/is-moving
```

Returns:

```
{  
  "isMoving": false  
}
```

UI and Systems Changes

- Guest Access Controls: Guest users are now limited to appropriate routes and no longer have access to SRT or RTMP credentials.
- Onvif Authentication Default Enabled: ONVIF authentication is now enabled by default to align with updated security protocols and ensure the ONVIF route is protected out of the box.
- Exposure Bright Mode: Added Bright as an exposure mode option.
- Updated Encoding Protocol Info Symbol: Added a new info icon next to the Encoding Protocol selection in the web UI. It provides descriptions of each protocol.

Bug Fixes

- Tracking Sensitivity: Improved tracking stability at full zoom by reducing over-sensitivity to minor subject movements.
- Pan/Tilt/Zoom Stop Independence: VISCA Pan/Tilt stop commands no longer interrupt Zoom.
- Home + Navigation Commands: Resolved an issue where recalling Home position followed by HTTP navigation commands caused the camera to stop zooming prematurely.
- Relative Tilt Bug: Fixed a bug where the camera would tilt up when at the lower tilt limit and receiving a Relative Position Down command.
- RTMP CDN Errors: Resolved frame rate, bitrate, and keyframe issues blocking some RTMP streaming. Note: When RTMP streaming to YouTube using camera video templates, bitrate errors may occur. Resolution: Adjusting the camera's video settings to align with YouTube's video requirements will improve streaming stability and functionality.
- Snapshot Stability: Fixed a long-term uptime issue where snapshot images would eventually fail.
- Time Server Application Failures: Fixed behavior where valid NTP time servers (like IPs with `.100` octets or certain hostnames) failed through the Web UI but worked via HTTP.
- NTP Fallback: Fixed a bug preventing consistent NTP server connection after boot, causing fallback to system time.
- NTP Time Zones: Resolved an issue where certain time zones could not be set from the web UI.
- Audio Out Menu Simplified: Removed Off option since audio disablement is handled by Audio Codec toggle.

Known Issues

- Cannot Set Some NTP Servers via Web UI: Some domain strings (for example, `time-a-g.nist.gov`) fail via Web UI but work using the HTTP API commands.
- Time Zone Compatibility: Time zone handling may cause SSL certificate renewal failures. Ongoing adjustments are needed.
- NTP Reboot: Changing the timezone in NTP settings requires a camera reboot.
- Pan/Tilt Limits Not Persistent: Pan/Tilt Limits are not retained after a reboot; they reset instead of persisting after the reboot.
- Incorrect VISCA over IP Responses: Changing the Serial VISCA address alters IP response headers (for example, `90` becomes `a0`, `b0`, and so on).
- Pelco P/D Zoom Stop Issue: Pelco P/D Zoom and Focus Stop commands are not received, causing the camera to zoom continuously to its limit.
- NDI Studio Monitor Hotkeys: `Ctrl+Right` and `Ctrl+Down` precision movement do not work. Other `Ctrl+Arrow` keys function as expected.

- NDI HX3 Video Template Mismatch: When NDI HX3 is enabled, switching to certain video modes (for example, `USB/IP/HDMI - SDI_30FPS`) disables HX3 but the Video Template does not reflect the correct available options or default values.
- NDI HX3 Video Framerate Mismatch: When NDI HX3 is enabled, the Framerate is grayed out, and may not default to `60Hz` or `50Hz` defined by the certification standards.
- ONVIF Preview Image Fails: No image preview when HTTP Auth is enabled.

02/13/2025

[Move SE 12X - v9.1.43](#)

[Move SE 20X - v9.1.32](#)

[Move SE 30X - v9.1.34](#)

New Features and Bug Fixes

- New Information Symbols: Added symbols for all new features available in the web interface. These symbols provide detailed explanations for each feature.
- Reorganized Navigation Panel: Organized the navigation panel for improved usability.
- Dashboard Update: Changed the title Camera Settings to Dashboard in the navigation panel.
- Privacy Mode: Added a Privacy Mode button to the navigation panel. When enabled, the camera turns away and disables the video feeds. To resume, call a preset or disable Privacy Mode.
- Power Control: Added a Power On/Off button to the navigation panel of the web interface.
- Enhanced Tracking Algorithm: Improved the overall tracking algorithm for better accuracy and performance.
- Changed the title Tracking to Automation under the Control sub-menu.
- Updated Auto Tracking to Automation in the Control > Automation sub-menu.
- Renamed Tracking Options to Time Delay.
- Added the ability to toggle between Auto Tracking and Auto Framing through the Automation dropdown.
- Introduced a Tracking Stop Location dropdown for more control.
- Added Target Loss and Target Timeout dropdown options.
- Added a Target Loss Preset dropdown for preset fallback behavior.
- Added a new VISCA command for tracked subject selection.

```
Command: 81 0A 11 A3 0p FF
0x2 = Subject Left
0x3 = Subject Right
0x4 = Confirm Subject
```

- Added Time Interval, Preset Range, and Preset Speeds to the Preset Tour function.
- Changed Audio Out: HDMI to Audio Out: Video Outputs in the Audio & Video section.
- Enabled editing of Static Fallback Address, Gateway, and Subnet Mask in the Network Settings page.
- Added NTP Timestamp Overlay and NTP Timestamp Position options in the NTP Settings section.
- Highlighted the Need Help? button in the Device Information section for better visibility.
- Improved network security. Guest Login is disabled by default and can be enabled on the System Settings page.
- Implemented HTTP Authentication: Added Digest Authentication to protect API routes enabled by default.
- Removed the ability to change the Focus parameters when logged in as a Guest user.
- Removed OSD access in the web interface when logged in as a Guest user.
- Resolved an issue with NDI absolute position where previously only the focus functioned. Pan, Tilt, and Zoom are now fully operational for compatibility with programs like Resolume Arena.
- Fixed an issue with the Move SE cameras where the Manual Focus position was not stored correctly with presets.
- Addressed a clocking issue between the SDI output of the PTZOptics Move SE cameras and certain SDI equipment.
- Fixed an issue where the Move SE would zoom to their limits when controlled via Pelco P or D protocols over RS-485 or RS-232.

Known Issues

- MAC iOS UVC Compatibility: May not be compatible with all MAC applications utilizing YUV formats. Limited to MJPEG UVC.

04/18/2024

[Move SE 12X - v9.1.35](#)

[Move SE 20X - v9.1.26](#)

[Move SE 30X - v9.1.24](#)

New Features and Bug Fixes

- Added NDI HX2.
- Improved the default tracking settings.
- Resolved an issue on Move SE models where the stop command was not properly triggered when using serial control (RS-232 or RS-485). This caused the camera to continue moving to its limit after releasing the joystick.

- Fixed a bug where the page icons were placed on the wrong pages.

07/28/2023

Move SE 12X - v9.1.27

Move SE 20X - v9.1.21

Move SE 30X - v9.1.18

New Features and Bug Fixes

- Remove Bright in Exposure Mode.
- In track mode, the live pos is changed to Track Now.
- When the profiles are full of three, the prompt will be modified.
- Auto Inversion modifies symbols, pull-down to switch to on|off.
- Solved the issue that the RS485 is invalid after modifying the VISCA address.
- Solved the issue that the default Anti-Flicker value of the upgrade 24M upgrade package file is wrong.
- Solved the issue that when NDI parameters are modified through the web page, after the real-time effect takes effect, the work will be abnormal.
- Solved the issue of restoring the menu to default, all restoring to default, serial port VISCA does not support `visca_setting_reset (81 01 04 A0 10 FF)`, `visca_web_full_setting_reset (81 01 04 A0 20 FF)`.
- When the webpage is configured as 2 streams and non-H.264, when previewing and taking snapshots, solved the issue that the snapshots are still going on after closing the webpage.
- Solved the inconsistency between the address on the RS232 menu and the address code of the command, and added P-P protocol P-D protocol address filtering.
- Solved the issue of no response code at the network serial port in inversion mode, `visca_inversion_mode (81 01 04 a4 0p 00 ff)`.
- Solved infrared address query and set VISCA, the serial port is invalid, `visca_set_IR_addr (81 0a 11 a7 ff ff)`, `visca_query_IR_addr (81 09 11 a7 ff)`.
- Solved the issue that the serial port responded by the SYS_Menu menu is invalid, `visca_back_osd_menu(81 01 06 06 04 ff)`.
- Solved the issue that the SYS_Menu menu confirms that the serial port is invalid, `visca_confirm_osd_menu_two (81 01 06 06 05 ff)`.
- Solved the issue that the SYS_Menu menu ON/OFF serial port is invalid, `visca_call_osd_menu_two(81 01 06 06 10 ff)`.
- Solved the issue that the video system display error when viewing the device information for the first time after switching the language in the menu.

- Solved the issue of switching languages ([*#1](#) or [*#3](#)), the automatic tour and motion synchronization options are not hidden.

06/23/2023

[Move SE 12X - v9.1.25](#)

[Move SE 20X - v9.1.19](#)

[Move SE 30X - v9.1.17](#)

New Features and Bug Fixes

- Initial camera firmware.

Technical Specs

Camera & Lens

Feature	Specification
Resolution & Frame Rate HDMI, SDI, & USB	<ul style="list-style-type: none">• 1920x1080p - 60/59.94/50/30/29.97/25• 1280x720p - 60/50
Resolution & Frame Rate NDI Stream 1	1920x1080, 1280x720, 1024x576, 960x540, 720x480, 720x408, 640x480, 640x360 1 ~ 60 FPS
Resolution & Frame Rate NDI Stream 2 (used for low bandwidth NDI feed)	1280x720, 720x480, 720x408, 640x480, 640x360, 480x320, 320x240 1 ~ 60 FPS
Lens	(12X) Sony 1/2.8 inch, CMOS
*	(20X) Sony 1/2.8 inch, CMOS
*	(30X) Sony 1/2.8 inch, CMOS
Image Sensor	2.13MP, Effective Pixels: 2.07
Optical Lens Focal Length (Zoom)	(12X) f = 4.1mm ~ 49.2mm, F1.8 ~ F2.68
*	(20X) f = 4.42mm ~ 88.5mm, F1.8 ~ F2.8
*	(30X) f = 4.42mm ~ 132.6mm, F1.8 ~ F2.8
Maximum Tracking Distance	(12X) 60' (20m)
*	(20X) 100' (33m)
*	(30X) 120' (40m)
Optical Lens Field of View Horizontal & Vertical	(12X) H 6.9° ~ 72.5° V 3.9° ~ 44.8°
*	(20X) H 3.4° ~ 60.7° V 1.9° ~ 34.1°

Feature	Specification
*	(30X) H 2.3° ~ 60.7° V 1.28° ~ 34.1°
Display Field of View	(12X) 85.2°
*	(20X) 69.6°
*	(30X) 69.6°
Min Lux	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
Pan Movement Range	±170°
Tilt Movement Range	-30° ~ +90°
Pan Speed	1.7°/s ~ 100°/s
Tilt Speed	1.7°/s ~ 69.9°/s
Presets	255 Presets
Preset Accuracy	0.1°
Image Flip, Mirror, and Freeze	Supported

Physical Specifications

Feature	Specification
Dimensions(L x W x H)	6.7" L x 5.6" W x 6.5" H (7.88" with tilt up) / 169mm L x 142mm W x 164mm H (189mm with tilt up)
Weight	(12X) 3.25 lbs (1.47 kg)
*	(20X) 3.0 lbs (1.36 kg)
*	(30X) 3.0 lbs (1.36 kg)

Feature	Specification
Working Environment	Indoor
Humidity Range	10% - 80%
Operating Temperature	14°F ~ 104°F (-10°C ~ 40°C)
Storage Temperature	-40°F ~ 140°F (-40°C ~ 60°C)

Connections



Feature	Specification
RJ45	10/100/1000M Adaptive Ethernet Port NDI HX enabled
HDMI	Version 1.3
3G-SDI	BNC Type, 800mVP-p, 75Ω, Along to SMPTE 424M,standard
USB 3.0	Type C
Compression Standards	MJPEG / H.264 / H.265

Feature	Specification
Audio Interface	3.5mm Line level Input & Output
RS232 Input	8-pin Mini DIN RS232 Input, Max distance: 98.5ft / 30m, Protocol: VISCA / Pelco-D / Pelco-P
RS232 Output	8-pin Mini DIN RS232 Output, Max distance: 98.5ft / 30m, Protocol: VISCA / Pelco-D / Pelco-P
RS485 Input / Output	2-pin Phoenix port RS485 Input / Output, Max distance: 3,937ft / 1200m, Protocol: VISCA / Pelco-D / Pelco-P
IR	4x IR Addresses, Max distance 30ft / 9m
Power Supply	JEITA type (DC IN 12V) / PoE (802.3af)
Current Consumption	Max 2.0A

Compliance

The Move SE is an NDAA Compliant camera.

Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com

