



**PTZ Mover with IP Control  
Setup and Operators Guide**

01/19/2024

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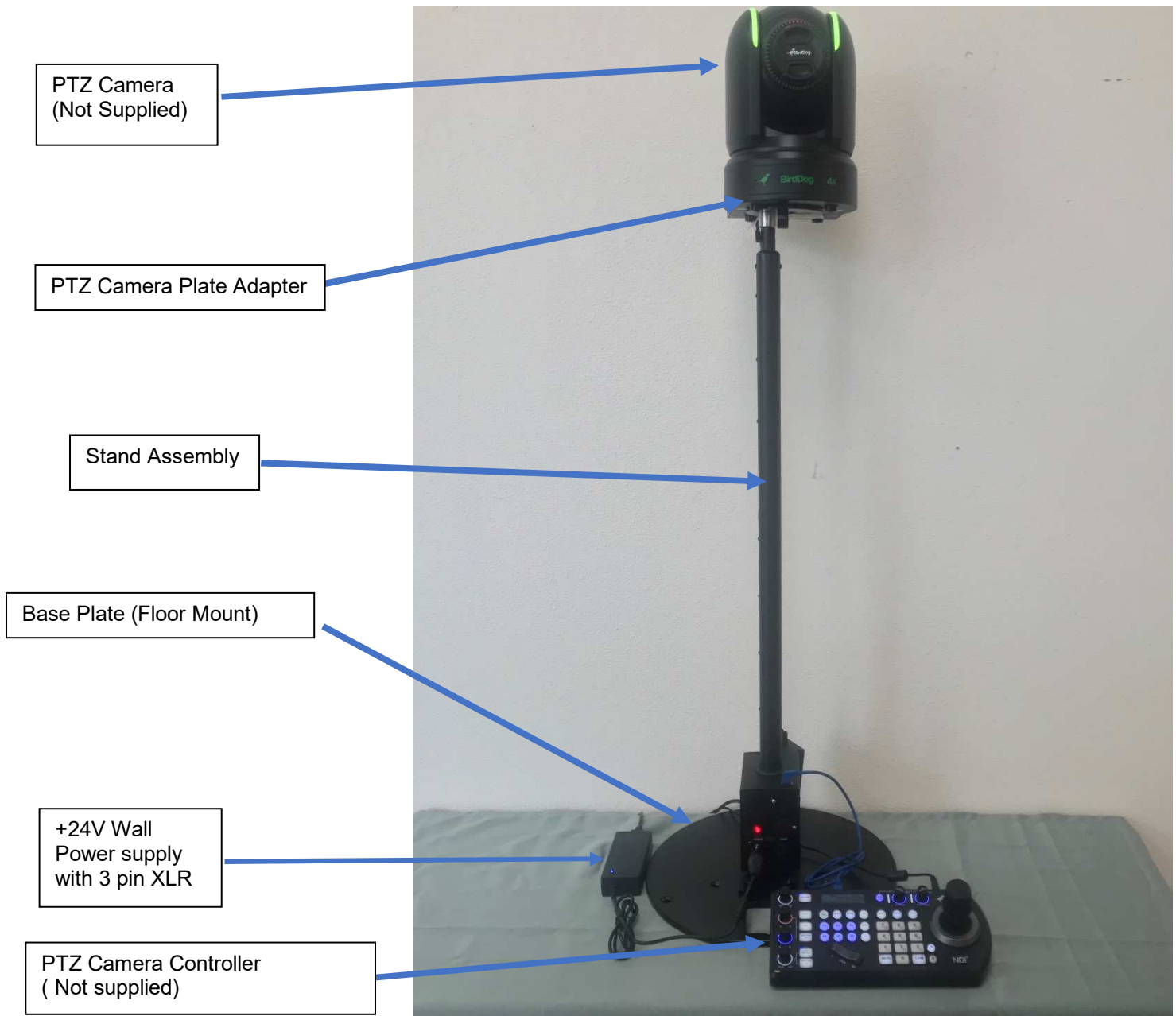
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## Package Contents

Quantity	Description
1	Stand Assembly
1	+24V Wall Power Supply
1	50 foot RJ45/Ethernet Cable
1	Floor Baseplate or ceiling Mount bracket. For ceiling mount: Either Horizontal or Vertical Pipe Grid, or Uni-strut. ( with mounting hardware)
1	1" diameter convoluted tubing
1	PTZ Camera Plate Adapter Assembly with extra thumbscrew



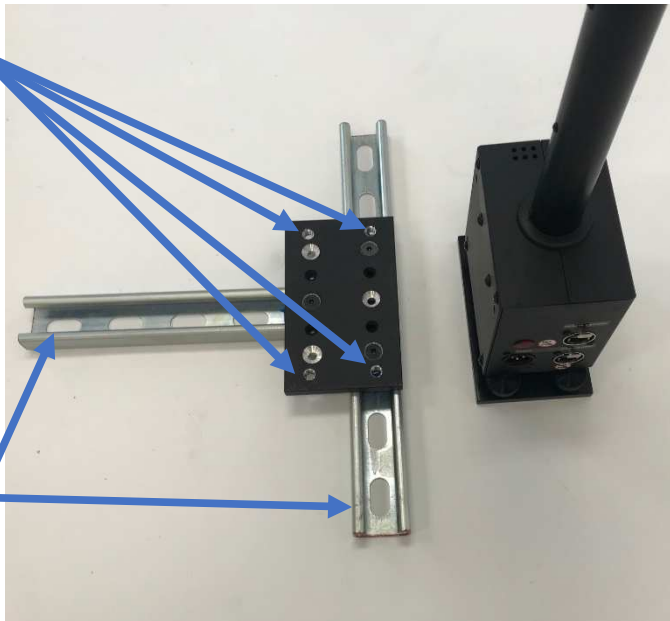
**Figure 1: 24" PTZ Mover with Floor Mounted Baseplate**



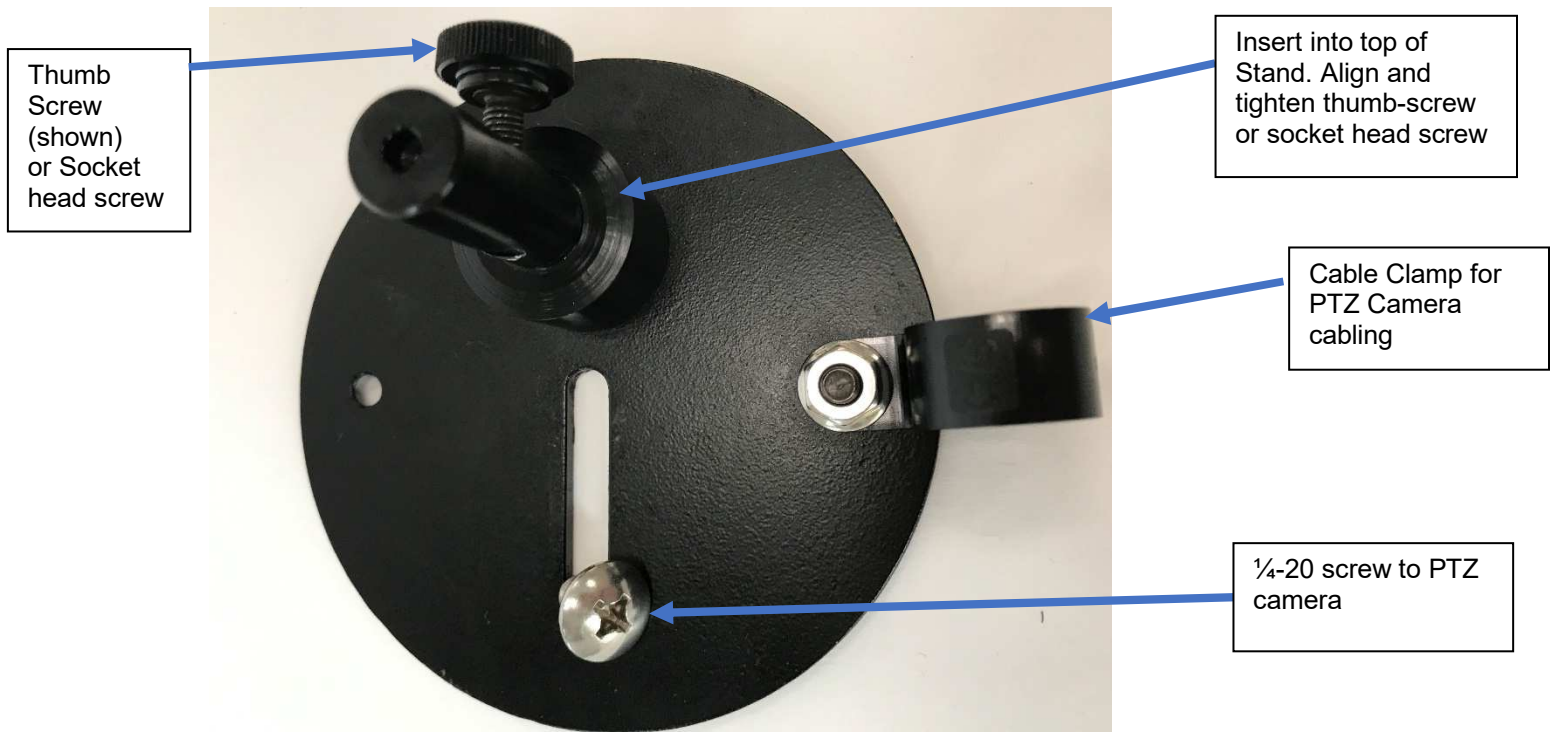
**Figure 2 : PTZ Mover with Vertical Pipe-Grid Ceiling Mount Bracket**  
(Horizontal Bracket not shown)

Align PTZ Mover to 5/16-18 threaded holes in plate. Attach using supplied thumbscrews ( 4 Places)

Attach PTZ Mover bracket securely to ceiling struts using these holes with supplied hardware



**Figure 3 : PTZ Mover with Uni-Strut Ceiling Mount Bracket**



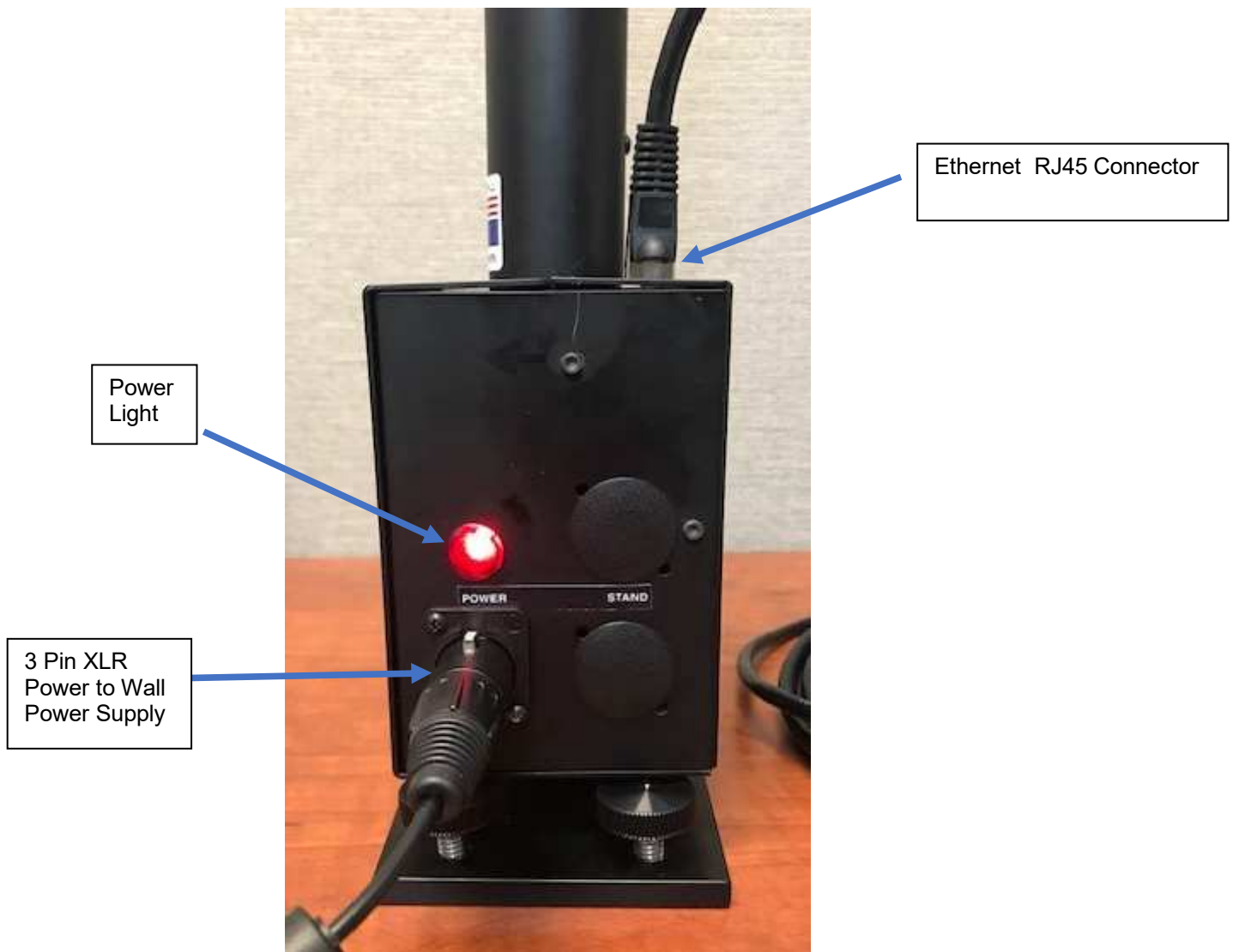
**Figure 4 : PTZ Camera Adapter Plate ( bottom view)**

## System Setup

- 1) Remove the stand assembly and place it either on the baseplate or on the Ceiling Mount bracket. Align the stand's 4 thumbscrews to either the baseplate or ceiling mount threads and tighten the 4 thumbscrews
- 2) Unpack the PTZ Camera Adapter plate and place inside the top of the stand. Align and tighten using either the thumb screw ( shown) or black socket head screw.



- 3) Use the 1/4-20 screw to attach the PTZ Camera to the adapter plate
- 4) If desired, use the included convoluted tubing along with the attached cable clamps on the PTZ Adapter plate and Stand base to route the cabling from the PTZ camera
- 5) Cable the Stand assembly, Wall Power supply and Remote Control as described below



- 6) Plug the RJ45/Ethernet Cable into the PTZ Camera Controller (not supplied) Ethernet port .

**Note:**

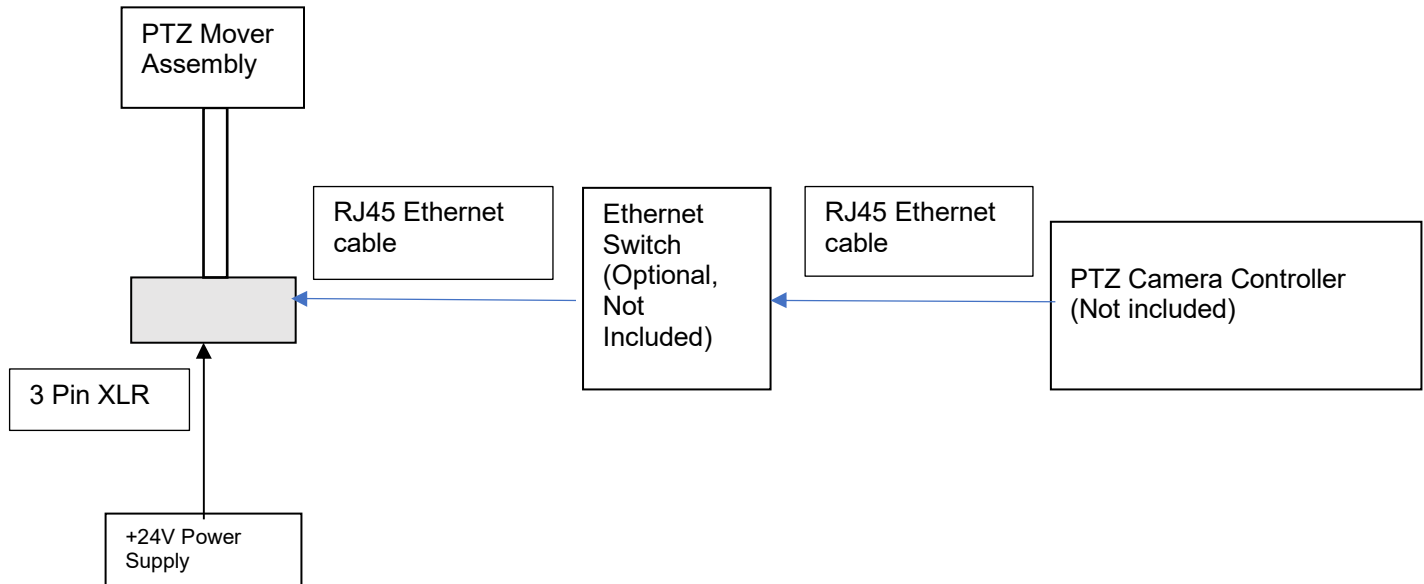
A 50 foot cable is included, if a longer cable is required, any Cat 5 or higher Ethernet cable can also be used.

- 7) Plug the RJ45/Ethernet Cable into the PTZ Camera Controller (not supplied)
- 8) Note; Power Over Ethernet (POE) is not supported. The +24V power supply must be used

**Note:**

On Power up, the PTZ Mover will automatically move to the home position. If the shaft is extended, it will retract to lowest home position. If already at the home position when power is applied, it will move up 3/8" and then back down

## Cabling Diagram



## Configuring the PTZ Mover for PTZ Camera Controller operation

### Overview

The PTZ Mover supports the various VISCA over IP protocols. This permits it to be controlled by almost all professional-grade PTZ camera controllers, including Sony, PTZ Optics, Skaarhoy, BirdDog, Marshal, Lumens, Creston and RocoSoft.

The PTZ Mover must be configured correctly to operate with these various PTZ Camera Controllers. IP settings, IP address, port numbers, transport protocols (UDP or TCP) and the various VISCA or AW protocols can be configured.

There are two methods for configuring the PTZ Mover:

1. Use the built in **Web-Server**. The default IP address is 192.168.0.100. Type this address into any Web browser (Firefox, Google Chrome ...)

#### Note:

To use the Web-Server, the LAN of the PC must be configured to be on the same network as the PTZ Mover:

Also, the Web-Server cannot configure the specific type of Controller Protocol, Sony VISCA, VISCA, VISCA Serial .... The TeleZSpin app must be used for this

Default IP	192.168.0.100
User Name	admin
Password	admin

2. Download PresenterTek's **TeleZSpin configuration** app. Please contact PresenterTek for instructions on where to download this app

#### Note:

To use all the features of the TeleZSpin app, namely the Controller Protocol and Firmware Version, the LAN of the PC must be configured to be on the same network as the PTZ Mover

## Web-Server Configuration

- a) Power up PTZ Mover unit: a RJ45 ethernet cable must be connected to PC and the PTZ Mover:, via either direct connection or an ethernet switch.
- b) Enter PTZ Mover: IP address into any web browser:

Default IP 192.168.0.100

Once the Login page appears, input the following:

User name: admin  
Password: admin

After the correct login credentials are inputted, the following should appear:

### Web-Server Screenshot, Status Tab

192.168.0.100

parameter
Module Name: <b>TeleZSpin</b>
Current IP Address: 192.168.0.100
MAC Address: 9c-a5-25-aa-3d-b6

Help

- **Current IP Address:** TeleZSpin's IP addr
- **MAC Address:** Machine Address Of TeleZSpin

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To change the modules IP address, Subnet Mask, Gateway or DNS Server, go to the Ethernet Config Tab. The following will appear. After changes are made, click “Save” and then “Restart Module”



## Web-Server Screenshot, Ethernet Config Tab

192.168.0.100

TeleZSpin Webpage Rev. 1.0

**Presenter Tek** TeleZSpin Web Interface *PresenterTek*

Current Status  
**Ethernet Config**  
Protocol Config  
Reboot

parameter

IP type:

IP Addr:  .  .  .

Subnet Mask:  .  .  .

Gateway:  .  .  .

DNS Server IP:  .  .  .

Help

- **IP type:**  
Static IP only
- **IP Addr:**  
TeleZSpin's IP Addr
- **Subnet Mask:**  
Usually  
255.255.255.0
- **Gateway:**  
Usually Router's IP  
address
- **DNS Server IP:**  
DNS IP Addr

To change the PTZ Mover's port number, Protocol Mode, PTZ camera controller's port number or PTZ camera controller's IP address, click to the Protocol Config tab. The following screenshot will appear, and after all changes are made, click "Save" and then "Restart Module". Restarting the module can take up to 15 seconds.

After the "IOT Device Restarted" page appears, cycle power on the PTZ Mover stand.

# Web-Server Screenshot, Protocol Config Tab

192.168.0.100

TeleZSpin Webpage Rev. 1.0

**Presenter Tek** TeleZSpin Web Interface *PresenterTek*

Current Status  
Ethernet Config  
**Protocol Config**  
Reboot

parameter

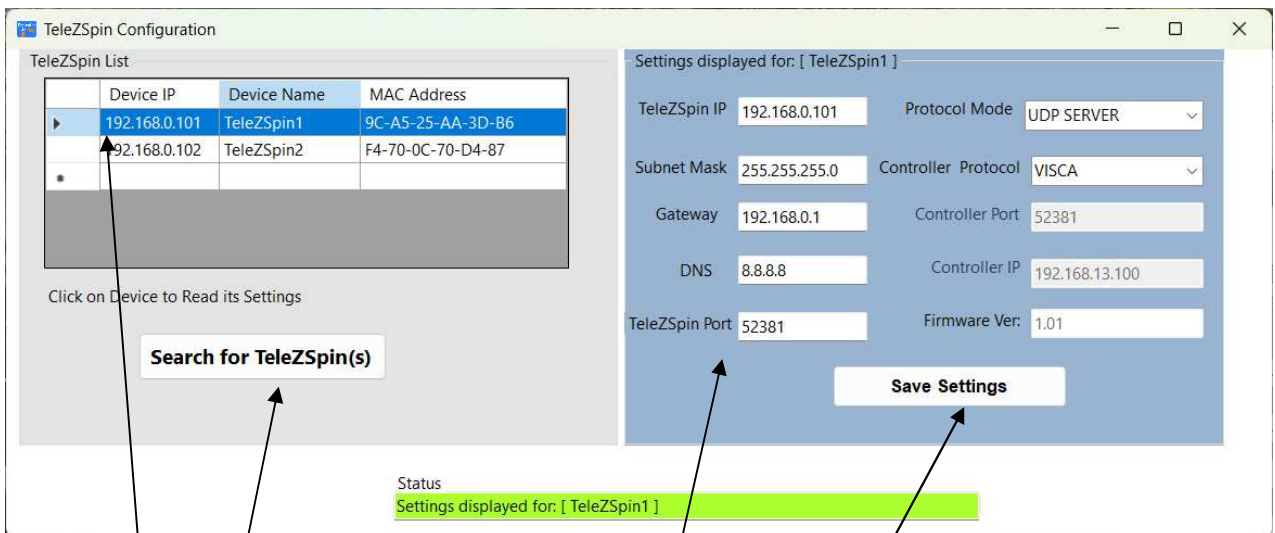
TeleZPpin Port Number:  (0-65535)  
PTZ Controller Port Number:  (1-65535)  
Protocol Mode:    
PTZ Controller IP:   
[192.168.0.10]

Help

## PresenterTek's TeleZSpin app

- Download and install the TeleZSpin app. Contact PresenterTek support for further instructions
- Power up PTZ Mover unit. An ethernet cable must be connected to PC and the PTZ Mover, either direct connect or via an ethernet switch
- Launch app

### PTZ Mover App Screenshot



- Click on "Search for TeleZSpin(s)"
- Select desired PTZ Mover to configure from list
- Input desired changes on right hand side.
- When finished, click "Save Settings". The module will automatically reboot. This can take up to 5 seconds.
- Cycle the power switch on the PTZ Mover stand.
- To verify correct settings, after PTZ Mover has rebooted, click "Search For TeleZSpin(s)" and then select desired unit

Note: If the PC is not configured to be on the same LAN as the PTZ Mover, the Controller Protocol and the Firmware Version will not be readable. A Yellow **Connection Error** message will appear in those boxes

## Configure for Sony's RM-IP10 or Sony RM-IP500 controller

Both controllers use Sony VISCA protocol, UDP client at port 52381. The IP address of the Sony PTZ camera controller, as well as its port number of 52381 must also be entered.

The PTZ Mover must be set to Sony VISCA over IP protocol using the TeleZSpinConfig app. UDP Client must be selected and the Controller IP must match that of the Sony controller

The Sony controller default IP address is 192.168.0.100

Web Server	
Ethernet Config Tab	
IP Addr:	Must match controller setting for the PTZ Mover. Camera addresses typically start at 192.168.0.101
Subnet Mask:	Configure for LAN
Gateway	Configure for LAN
DNS Server IP:	N/A
Protocol Config Tab	
PTZ Mover Port Number	52381
PTZ Port Controller Number	52381
Protocol Mode	UDP Client
PTZ Controller IP:	Must match setting on Sony Controller's IP address. Default is 192.168.0.100
TeleZSpinConfig App	
PTZ Mover IP	Must match controller setting for the PTZ Mover. Camera addresses typically start at 192.168.0.101
Subnet Mask	Configure for LAN
Gateway	Configure for LAN
DNS	N/A
TeleZSpin Port	52381
Protocol Mode	UDP Client
Controller Protocol	Sony VISCA
Controller Port	52381
Controller IP	Must match setting on Sony Controller. Default is 192.168.0.100

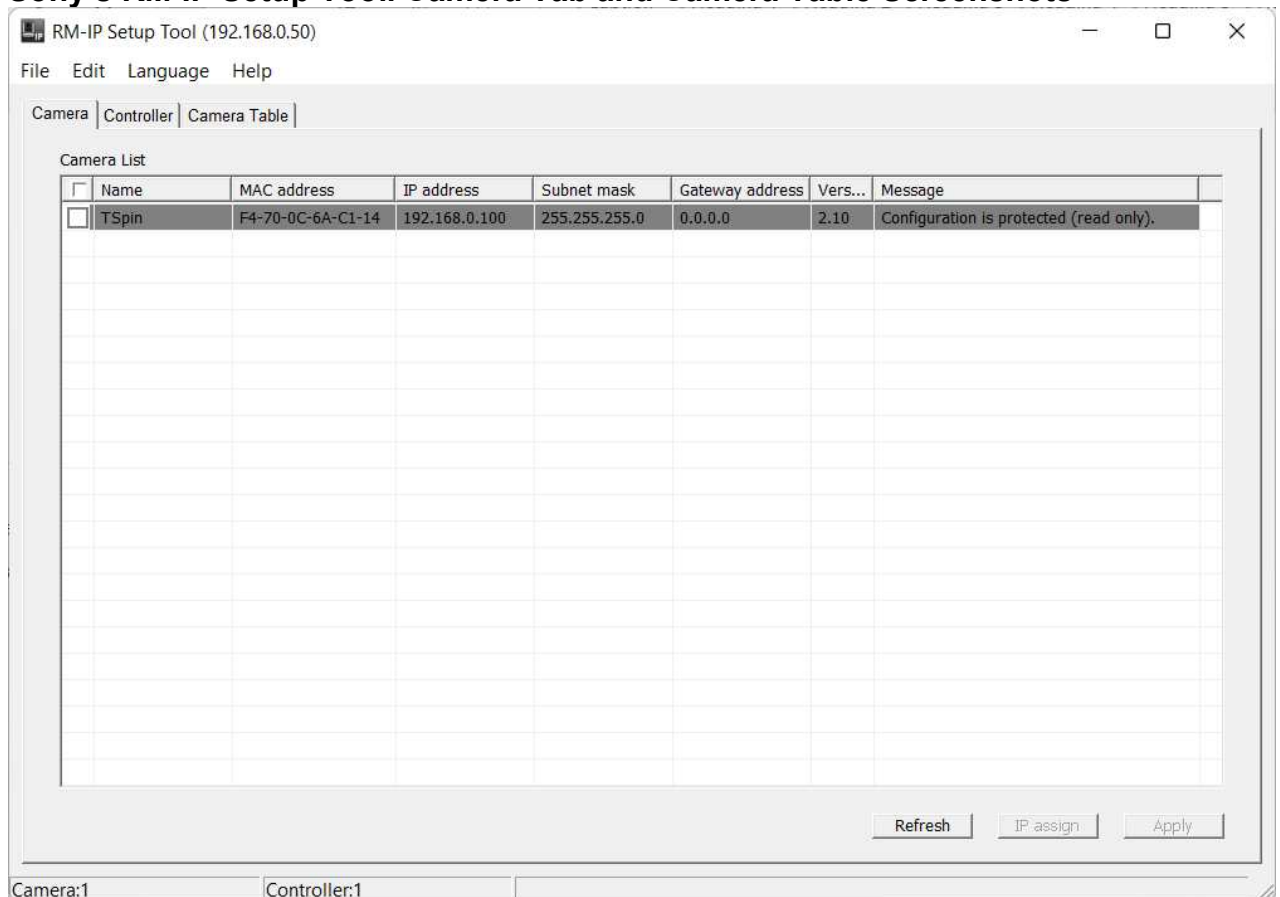
### Sony's RM-IP Setup application configuration:

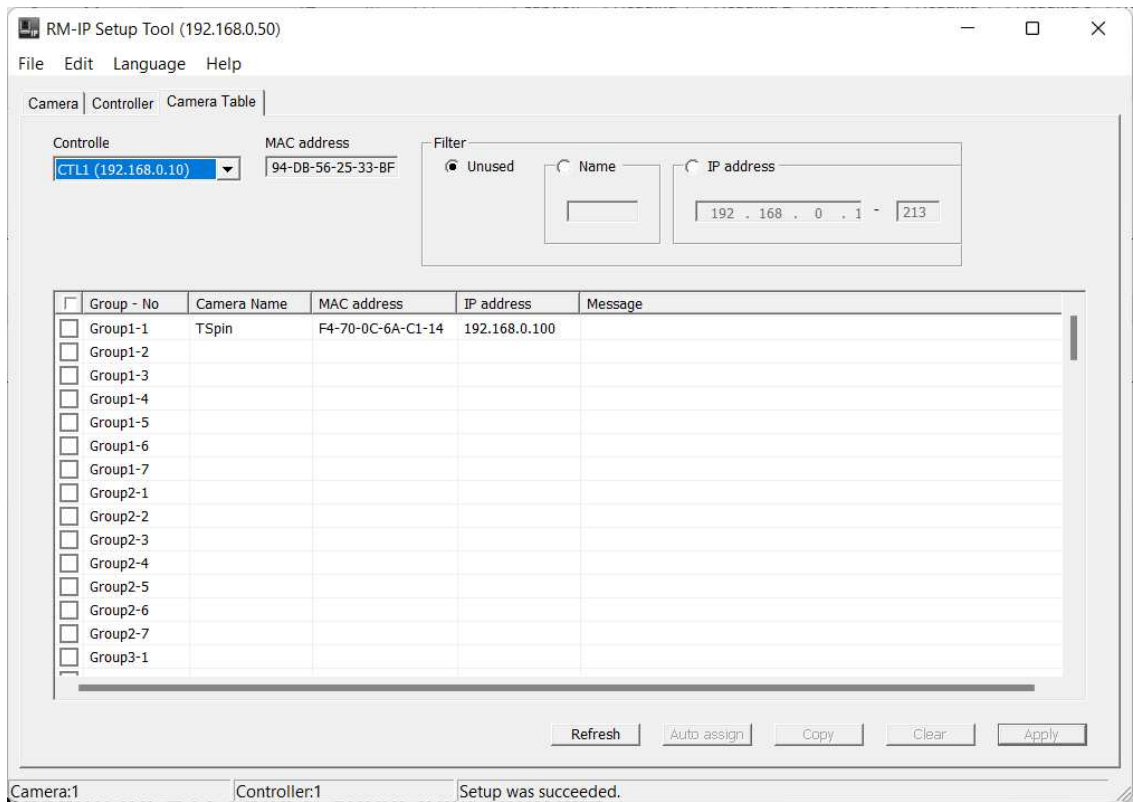
- a) Power up PTZ Mover stand. An ethernet cable must be connected to PC and the PTZ Mover, either directly connected or via an ethernet switch.
- b) The PTZ Mover's Protocol Mode must be UDP Server at Port 52380
- c) **When the port number is changed, the power must be cycled on the PTZ Mover unit.**

<b>Web Server</b>	
Ethernet Config Tab	
IP Addr:	N/A
Subnet Mask:	Configure for LAN
Gateway	Configure for LAN
DNS Server IP:	N/A
Protocol Config Tab	
TeleZSpin Port Number	52380
PTZ Port Controller Number	N/A
Protocol Mode	UDP Server
PTZ Controller IP:	N/A
<b>TeleZSpinConfig App</b>	
TeleZSpin IP	N/A
Subnet Mask	Configure for LAN
Gateway	Configure for LAN
DNS	N/A
TeleZSpin Port	52380
Protocol Mode	UDP Server
Controller Protocol	Sony VISCA
Controller Port	N/A
Controller IP	N/A

- d) Launch RM-IP app
- e) "TSpin" should appear after approximately 10 seconds on the camera tab. If it does not appear, click "Refresh" button, or go to the Controller tab and back to the Camera Tab.

### Sony's RM-IP Setup Tool. Camera Tab and Camera Table Screenshots





After assigning the PTZ Mover (TSpin) to the Camera Table, ensure the PTZ Mover is returned to the standard Sony VISCA over IP settings (UDP Client, Port = 52381) as described above prior to using the PTZ controller.

**Note:** When the port number for the PTZ Mover is changed back to 52381, **the power must be cycled on the PTZ Mover unit** for it to take effect.

## Configuration for PTZ Optics SuperJoy Controller:

The PTZ Optics SuperJoy can either be configured for Sony VISCA over IP or VISCA Over IP  
 Note: SuperJoy Default IP is 192.168.100.89

### Sony VISCA Over IP

Web Server		
Ethernet Config Tab	IP Addr:	Must match PTZ controller setting
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab	TeleZSpin Port Number	52381(Default, but can be changed in the PTZ controller)
	PTZ Port Controller Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
TeleZSpinConfig App		
	TeleZSpin IP	Must match controller setting for the PTZ Mover
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	TeleZSpin Port	52381(Default, but can be changed in the PTZ controller)
	Protocol Mode	UDP Server
	Controller Protocol	Sony VISCA
	Controller Port	N/A
	Controller IP	N/A

### VISCA Over IP

PTZ Mover must be set to VISCA over IP protocol using the PTZ Mover Config App. In addition, UDP Server and Port 1259 must be selected.

Web Server		
Ethernet Config Tab	IP Addr:	Must match controller's setting for the PTZ Mover.
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab	TeleZSpin Port Number	1259
	PTZ Controller Port Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
TeleZSpinConfig App		

	TeleZSpin IP	Must match controller's setting for the PTZ Mover
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	TeleZSpin Port	1259
	Protocol Mode	UDP Server
	Controller Protocol	VISCA
	Controller Port	N/A
	Controller IP	N/A

### Configure for PTZ Optics Windows Controller app

The Windows PTZ Optics controller app uses TCP Server at port 5678.

PTZ Mover must be set to VISCA protocol using the TeleZSpinConfig App. In addition, TCP Server and Port 5678 must be selected.

<b>Web Server</b>		
Ethernet Config Tab		
	IP Addr:	Must match PTZ controller's setting
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab		
	TeleZSpin Port Number	5678
	PTZ Port Controller Number	N/A
	Protocol Mode	TCP Server
	PTZ Controller IP:	N/A
<b>TeleZSpinConfig App</b>		
	TeleZSpin IP	Must match PTZ Controller's setting
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	TeleZSpin Port	5678
	Protocol Mode	TCP Server
	Controller Protocol	VISCA
	Controller Port	N/A
	Controller IP	N/A



## Configure for BirdDog's / Lumens/ Marshall PTZ Camera Controllers

Note: for reliable operation. Camera settings on the controller must be set to Camera Type = General

<b>Web Server</b>		
Ethernet Config Tab	IP Addr:	Must controller's setting
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab	TeleZSpin Port Number	52381
	PTZ Port Controller Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
<b>TeleZSpinConfig App</b>		
	TeleZSpin IP	Must match PTZ Controller's setting
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	TeleZSpin Port	52381
	Protocol Mode	UDP Server
	Controller Protocol	BirdDog with Header or BirdDog No Header. Must match controller setting
	Controller Port	N/A
Controller IP	N/A	

## Configure for Panasonic AW Camera Controllers

<b>Web Server</b>		
Ethernet Config Tab	IP Addr:	Must controller's setting
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab	TeleZSpin Port Number	80
	PTZ Port Controller Number	N/A
	Protocol Mode	TCP Server
	PTZ Controller IP:	N/A
<b>TeleZSpinConfig App</b>		
	TeleZSpin IP	Must match PTZ Controller's setting
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	TeleZSpin Port	80
	Protocol Mode	TCP Server
	Controller Protocol	Panasonic AW
	Controller Port	N/A
Controller IP	N/A	

## Configure for direct control using VISCA Over IP commands directly

This mode is typically used for Creston Controllers. Recommended setup is for UDP Server using VISCA Protocol as shown below

### Recommended Setup for VISCA Over IP commands directly

<b>Web Server</b>		
Ethernet Config Tab	IP Addr:	Configure for LAN
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab	PTZ Mover Port Number	Configure for LAN
	PTZ Port Controller Number	N/A
	Protocol Mode	UDP Server (preferred, but TCP/IP Server can be used)
	PTZ Controller IP:	N/A
<b>TeleZSpinConfig App</b>		
	TeleZSpin IP	Configure for LAN
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	Configure for LAN
	TeleZSpin Port	Configure for LAN
	Protocol Mode	UDP Server (preferred, but TCP/IP Server can be used)
	Controller Protocol	VISCA
	Controller Port	N/A
	Controller IP	N/A

## VISCA Command List

The VISCA command subset listed below are relevant for the PTZ Mover.

Command Set	Command	VISCA Command Packet (Hex)	Comment
<b>Z Axis Move Up/Down</b>	Up	81 01 06 01 01 vv 03 01 FF	Move Up until "Stop" command, or at end of stroke, is issued <vv> = Speed, 01 =slow, 18 = fast
	Down	81 01 06 01 01 vv 03 02 FF	Move Down until "Stop" command, or at end of stroke, is issued <vv> = Speed, 01 =slow, 18 = fast
	Stop	81 01 06 01 01 01 03 03 FF	
	Absolute Position	81 01 06 02 vv 00 00 00 00 00 00 zz zz zz zz FF	<vv> = Speed, 01 =slow, 18 = fast <zz zz zz zz> = absolute position in bytes ( see table below for conversions to linear distance) Note: <zz> args are different from VISCA spec
	Relative Position	81 01 06 03 vv 00 00 00 00 00 00 zz zz zz zz FF	<vv> = Speed, 01 =slow, 18 = fast <zz zz zz zz > = Relative position in bytes ( see table below for conversions to linear distance) Note: <zz> args are modified from VISCA spec.
	Home	81 01 06 04 FF	Move to home or zero position
	Reset	81 01 06 05 FF	Home to zero position using homing routine
<b>Preset</b>	Set	81 01 04 3f 01 pp FF	<pp> = Preset number 00 -127
	Recall	81 01 04 3f 02 pp FF	<pp> = Preset number 00 -127
	Reset	81 01 04 3f 00 pp FF	Set Preset to position 0 <pp> = Preset number 00 -127

### VISCA Command Reply

For each of the commands issued above, the following replies will be sent

Reply type	Reply Message (Hex)	Comment
ACK	90 41 FF	Command accepted
Completion	90 51 FF	Command completed
Syntax Error	90 60 02 FF	Command not accepted, due to syntax error
Command Not Executable	90 61 41 FF	Not able to accept command, Possibly due to < arg> out of range

Note; Both the ACK and Completion are sent in the same packet. Use the Inquiry Status command to determine when the actual motion has completed

## VISCA Inquiry Commands

Command	Inquiry Packet(Hex)	Reply Packet(Hex)	Comments
<b>Position</b>	81 09 06 12 FF	90 50 00 00 00 00 00 pp pp pp pp FF	<pp> MSB first <pp> LSB last Position in bytes, see “Stroke to position”Table below
<b>Status</b>	81 09 06 10 FF	90 50 pp pp 00 00 FF	See “Inquiry Status Reply” Table below
<b>Invalid Command— Syntax Error</b>		90 60 02 FF	Syntax error

### Stroke to Position Table

Stroke in Inches	Count per distance (Counts/inch)	Full stroke
6	1,597.5 counts/inch or	(decimal) 9,585 = (hex) 002571
12		(decimal) 19,170 = (hex) 004AE2
18	0.0006259 inch/count	(decimal) 28,755 = (hex) 007053
24		(decimal) 38,340 = (hex) 0095C4

Home Position is always <00><00><00><00>.

For Relative position command, if the Most Significant Bit is a 1, it is considered a negative value;

For example:

<80><00><00><01> will move Down (relative to floor mount) 1 step.

Whereas:

<00><00><00><01> will move Up (relative to floor mount) 1 step

### Inquiry Status Reply

Most Significant byte (pp)	Least Significant byte (pp) x = don't care	Status
x x x x    x x x x	1 x x x    x x x x	Z axis Idle
x x x x    0 x x x	x x x x    x 1 x x	Z axis moving
x x x x    x 1 x x	x x x x    x x x x	Initialization Complete
x x x x    1 x x x	x x x x    x x x x	Initialization failed

## Operation:

### Operation via PTZ Camera Controller

Typically, the PTZ Mover unique IP address will also be assigned to a unique Camera number. Use the Up/Down on the Joy Stick for the Z axis movement. Preset positions, and tilt (Z-axis) speeds are also configurable using the PTZ Controller.

Note: the PTZ Camera Controller will not operate the PTZ Mover has initialized the axis,

Note: On power up, the PTZ Mover will automatically move to the home position. If the stand is extended, it will move towards the retracted position. If already at the home position, it will move down about ¼” and then back to the home position

## Demo Mode

If the PTZ Remote Control has a Backlight button, select the current PTZ Mover. The Backlight button will toggle a demo mode operation.

## Firmware Upgrade Procedure

The firmware can be upgraded using a Windows PC app. Please contact customer support for the app and the necessary upgrade files

1. Install PresenterTek's Bootloader app by double clicking Setup.exe and following the instructions
2. Install PresenterTek's TeleZSpin app by double clicking Setup.exe and following the instructions. This is not necessary if you already know the PTZ Mover's IP address and Subnet mask
3. Connect an ethernet cable from the PC to the PTZ Mover.

### **Note:**

Disconnect any PTZ Camera controller or any other device that may attempt to communicate with the TeleZSpin.

No other devices can communicate with the TeleZSpin during the firmware upgrade process. Disconnect any PTZ Camera controller. A direct connection from the PC to the TeleZSpin is recommended

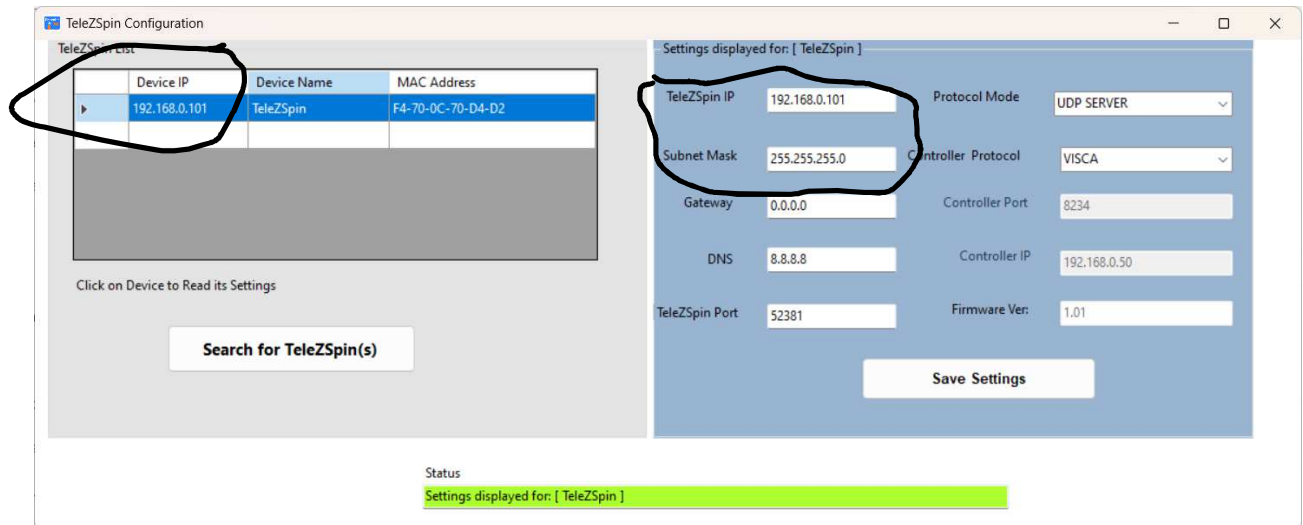
4. Ensure that the PC is on the same local network as the PTZ Mover.  
With Windows 10 Settings -> Network & internet->LAN-Properties

Using the TeleZSpin Configuration app.

PTZ Mover

IP = 192.168.0.101

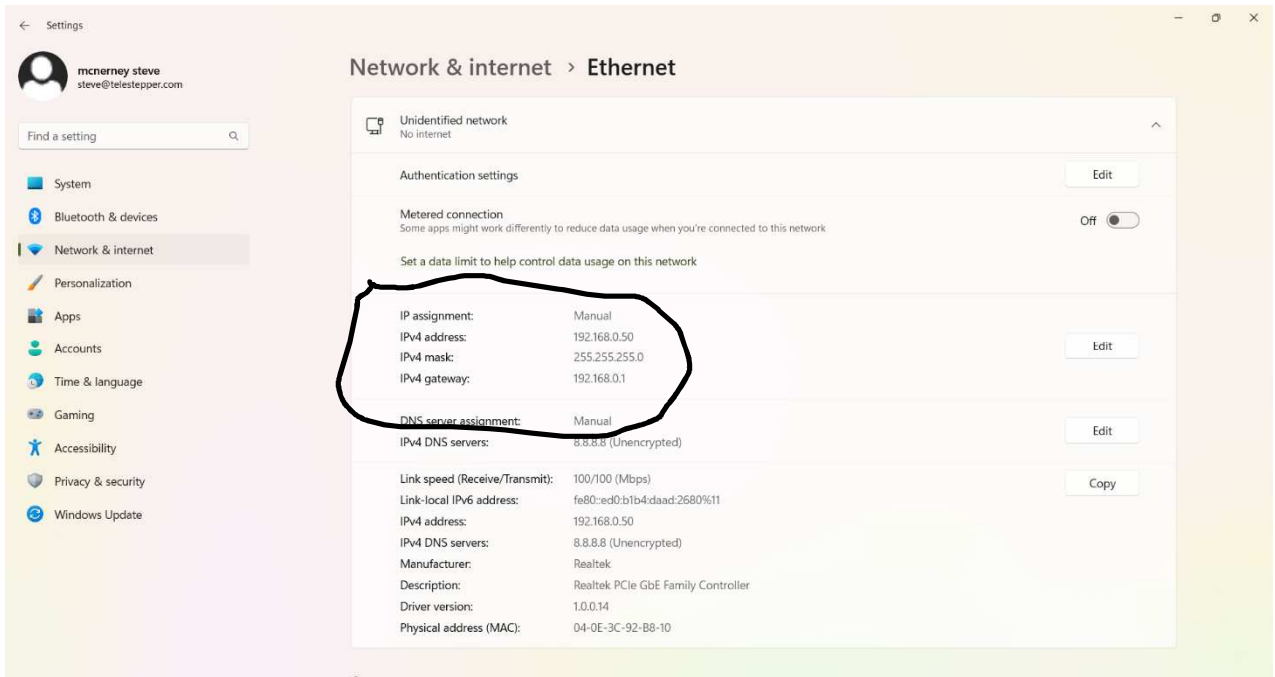
Subnet mask = 255.255.255.0



With Windows 10 Settings -> Network & internet->LAN-Properties

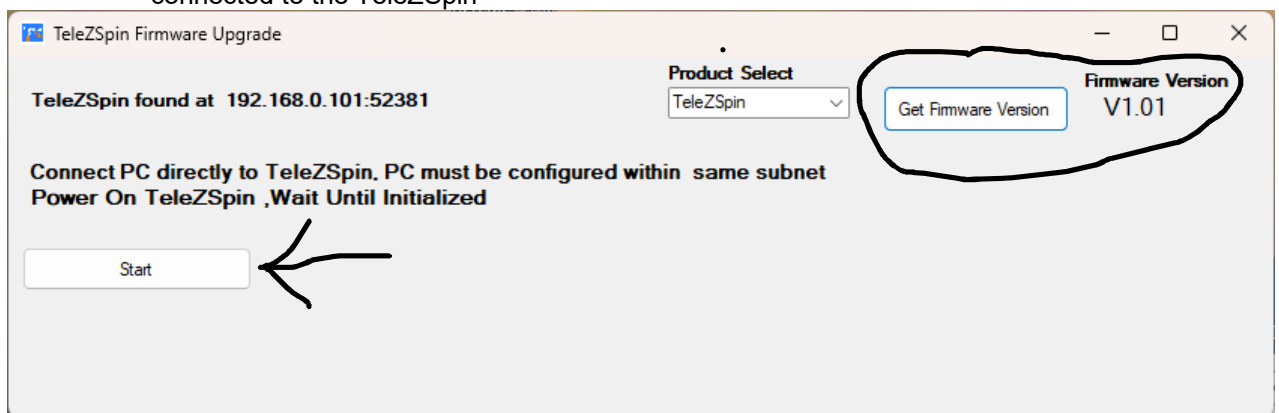
PC

IP = 192.168.0.50  
Subnet mask = 255.255.255.0

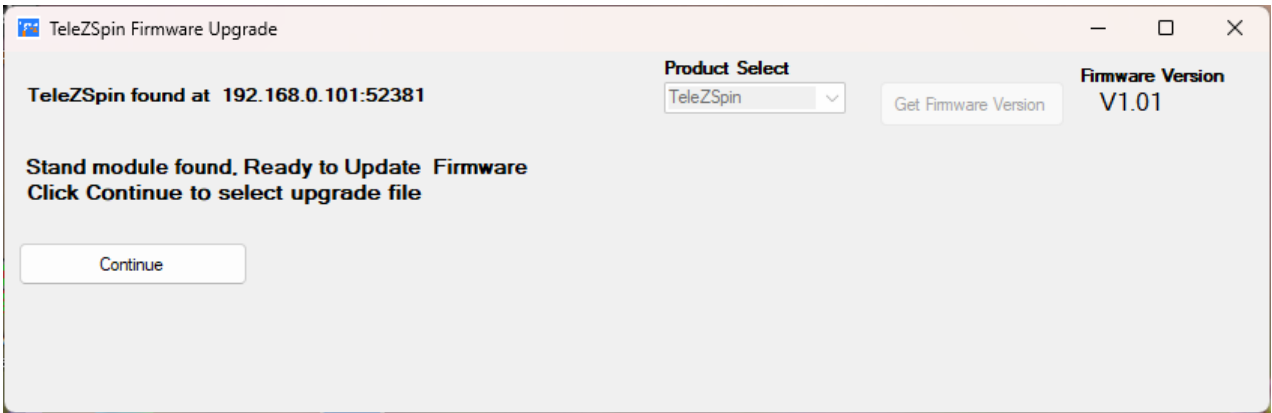


Note how the PC's IP address and Subnet mask are on the same LAN as the TeleZSpin . The IP assignment must be set to Manual ( or Static IP). Not DHCP

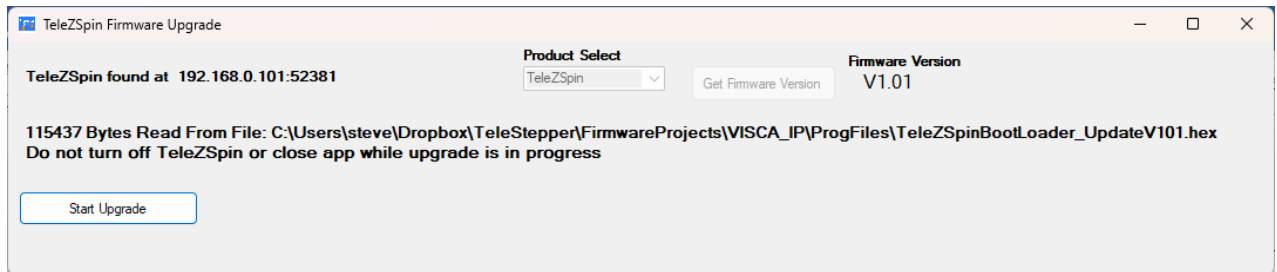
5. Power up TeleZSpin and wait until initialized. That is, both axes are idle
6. Launch Bootloader App
7. Ensure that Product Select is set correctly
8. Click "Get Firmware Version" If a Firmware Version is displayed. The PC is correctly connected to the TeleZSpin



9. Click "Start" the following should appear



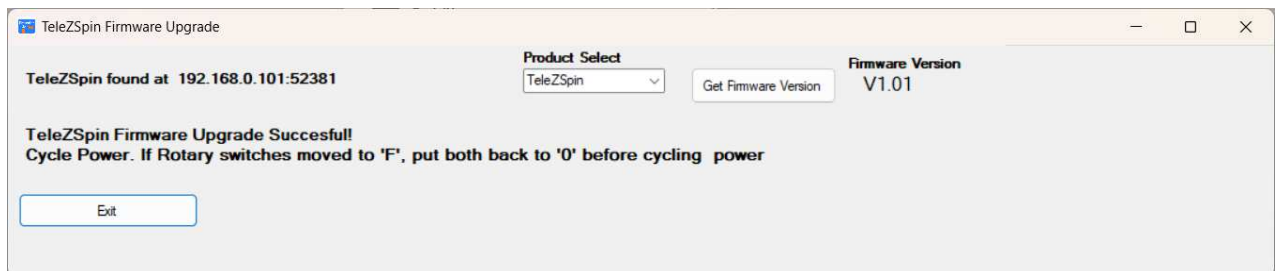
10. Click “Continue” and select correct update file, upgrade file will be supplied by PresenterTek. The firmware upgrade file name will be in the format “TeleZSpinBootLoader\_UpdateVXXX.hex”



11. Click “Start Upgrade”
12. Wait until Firmware upgrade is complete

**Note:**  
**Do not** interrupt the Firmware upgrade process by closing the app, removing the ethernet cable or powering off the TeleZSpin. This may corrupt the firmware and require an corrupted firmware upgrade procedure. Please contact technical support if this occurs

13. If all goes well, the following should appear:



14. Click “Exit”, Cycle the power on the TeleZSpin. To verify, relaunch the BootLoader app and check that the firmware version is correct