TeleZSpin Setup and Operation Manual

Ver 2.0

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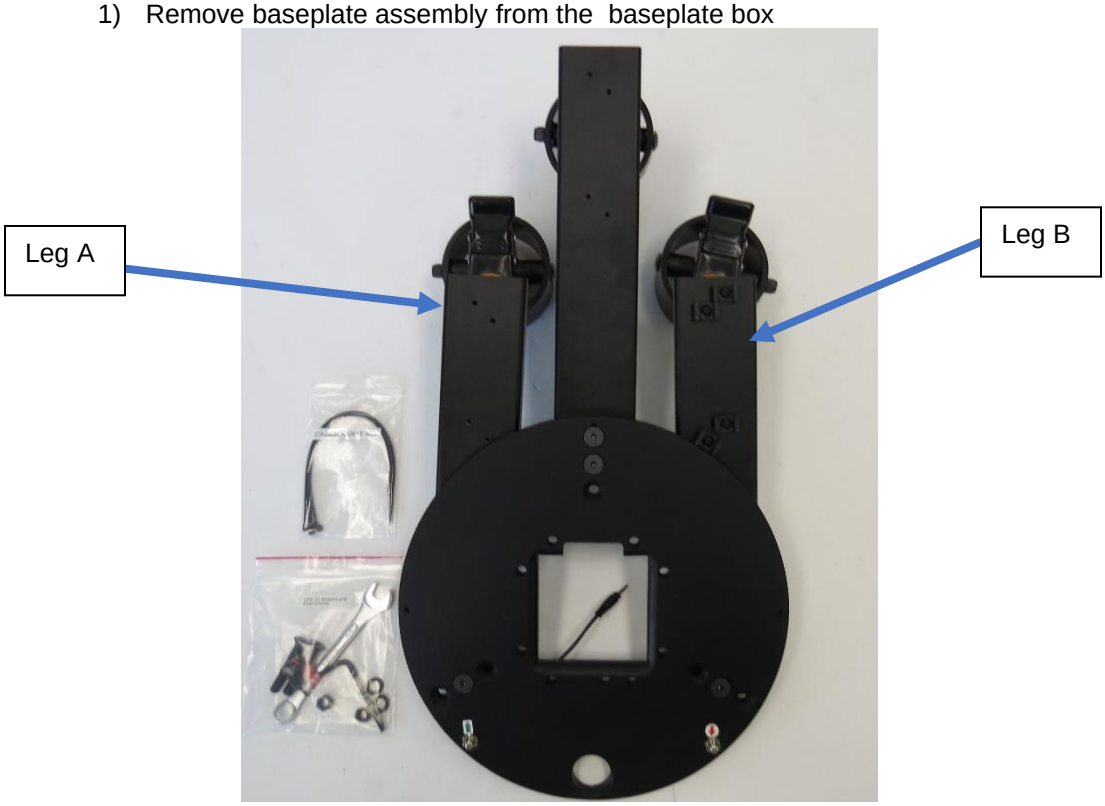
Assembly

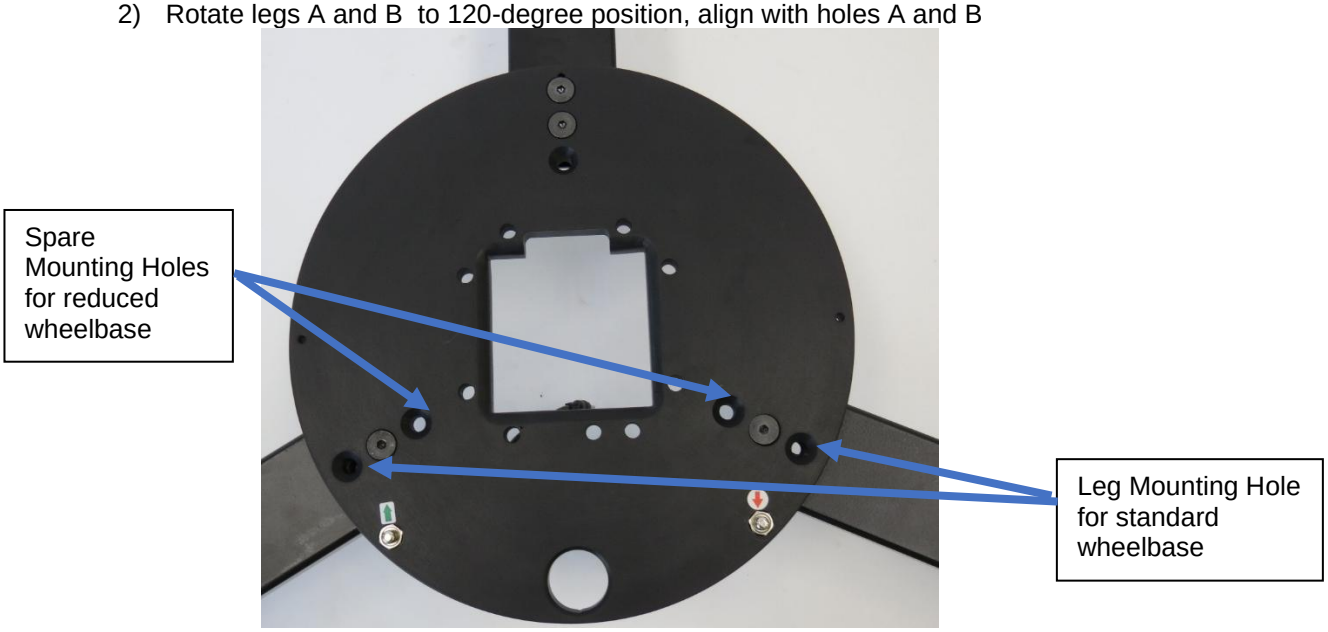
TeleZSpin is shipped in 2 sperate boxes: 1) Baseplate box and 2) Stand box

Baseplate assembly-step by step

1) Remove baseplate assembly from the baseplate box



2) Rotate legs A and B to 120-degree position, align with holes A and B



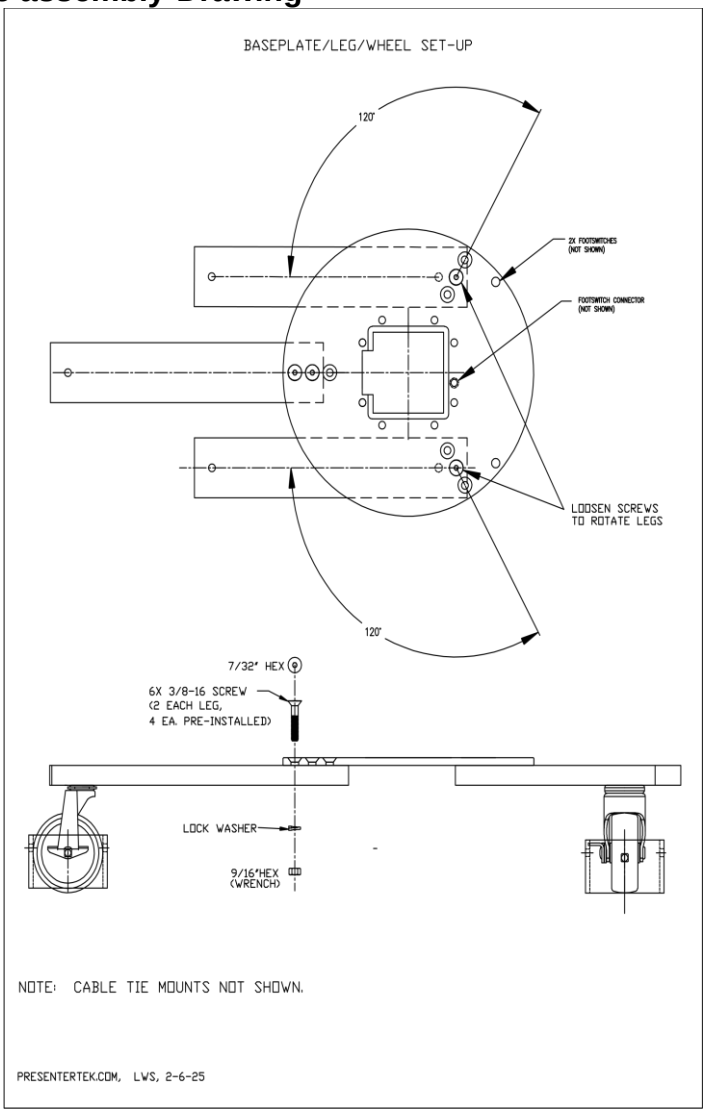
3) Remove the following from the “Leg to Baseplate Fasteners” bag
    a. 2x- 3/8”-16 x2/14” Screw
    b. 9/16” wrench
    c. 7/32 Hex Key
    d. 2x- 3/8-18 nuts
    e. 2x – Lock washers

4) Place 2 of 3/8” x 2 ¼ screws into Holes A and B

5) Place Lock Washer on bottom of bolt. Tighten all 3 legs using 9/16” wrench and 3/8” hex key

6) Note: If desired to have a smaller wheel base, move all 3 legs to the inner holes The 3 cable clamps can also be moved to the other legs

Baseplate assembly-Drawing



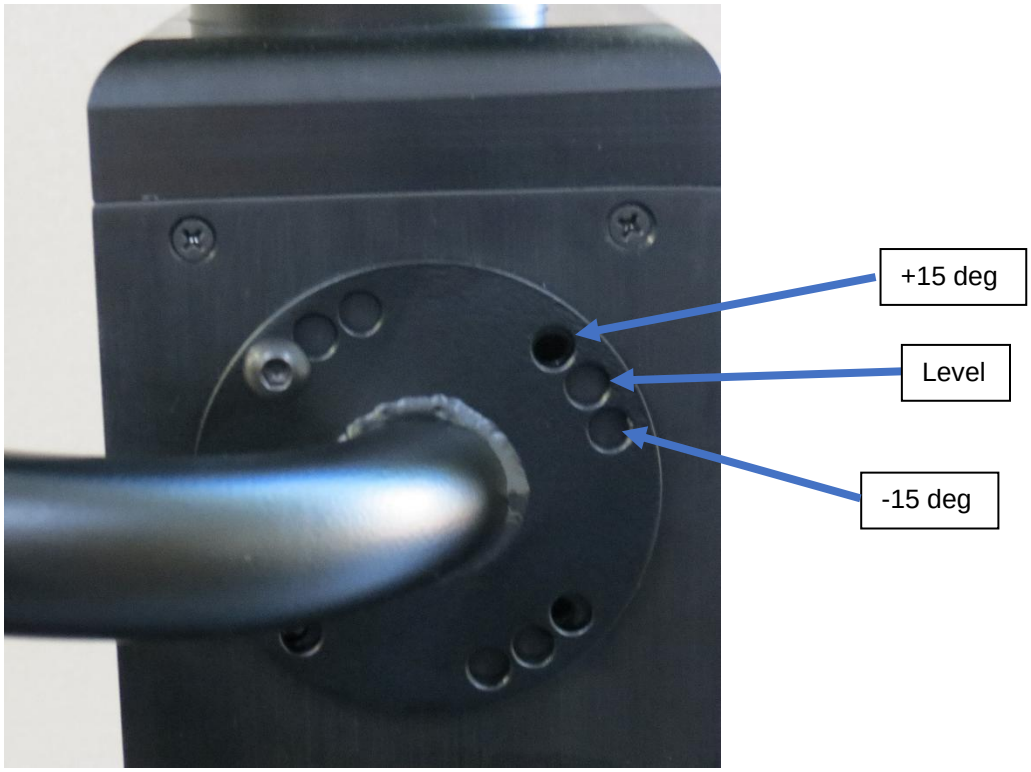
Mounting Stand to Baseplate-Step-by-Step

1) Lift the Stand up and place into the Baseplate assembly
2) Locate the “Baseplate the Stand Fasteners” bag

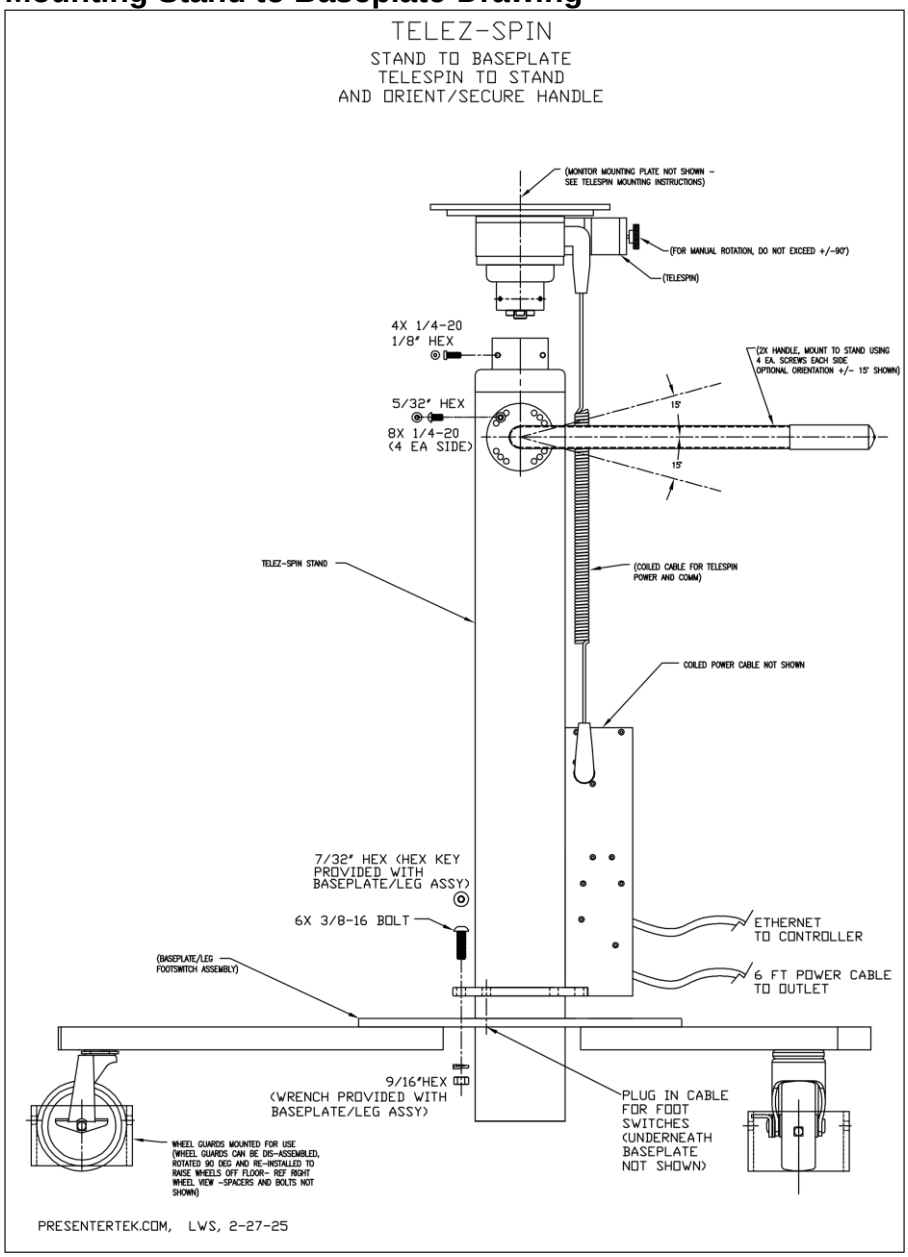
3) Place stand into the baseplate assembly Fasten Stand to the Baseplate using the (6x) 3/8-16 fasteners. Ensure that the lock washers are on the bottom side about the nut, as shown in the drawing. Required tools are located in Leg/Baseplate Fasteners" bag

4) Locate "Handle to Stand Fasteners" bag

5) Align the Left and Right Handles to mounting holes on stand
6) Fasten using (4x) ¼-28 screws using 5/32" hex key
7) Note, If desired, The handles can be angled level or +/- 15 degrees by selecting. +15 degrees shown below



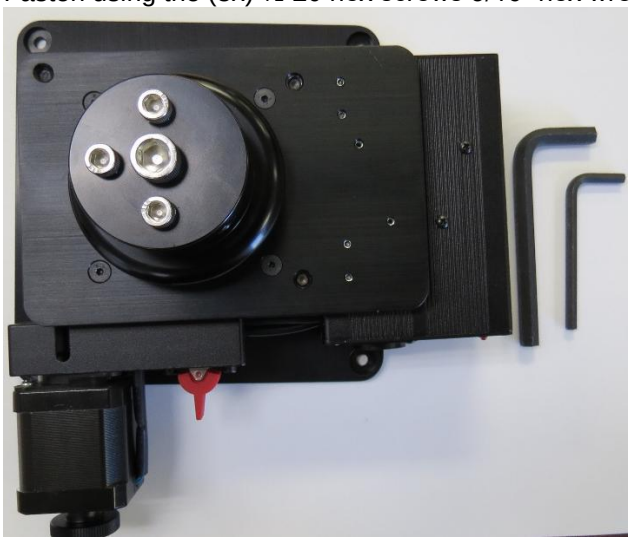
Mounting Stand to Baseplate-Drawing



TeleSpin Module- Assembly -Step-by-Step

1) Remove VESA Monitor Mounting plate by removing the 4 X #10/32 screws. Place the plate and the screws to the side
2) Locate the “Mounting Adapter to TeleSpin Plate” bag

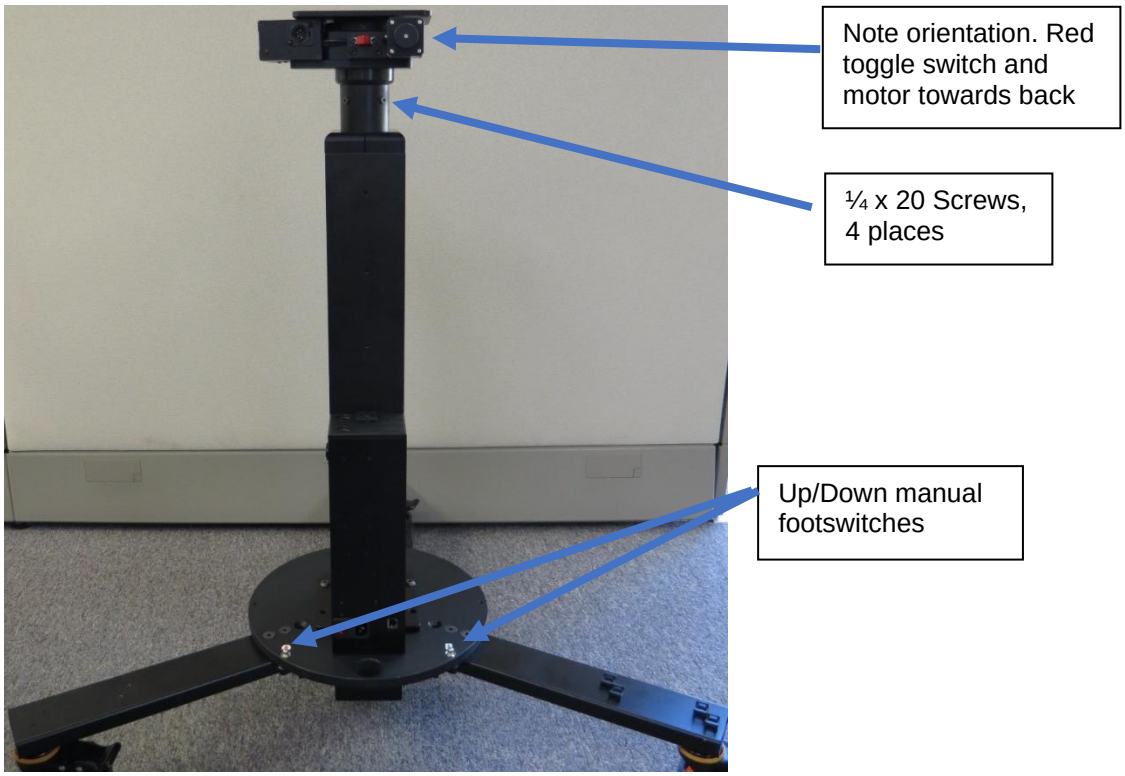
3) Align the 4 holes on the mounting adapter to the bottom of the TeleSpin module
4) Fasten using the 3/8 -16 hex screw using the 5/16” hex wrench
5) Fasten using the (3x) ½-20 hex screws 3/16” hex wrench



6) Locate the “TeleSpin to Stand Fasteners” bag

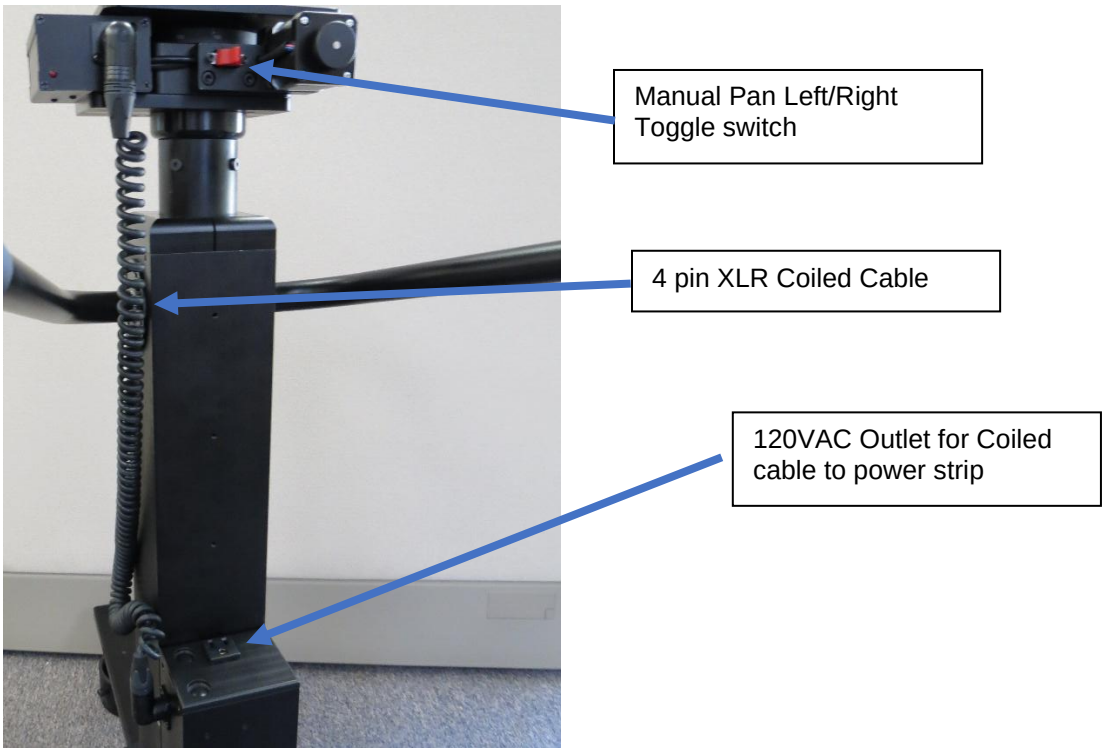
7) Place the mounting adapter inside the Top Tube of the Stand

8) Align the 4 holes , Note orientation as shown below .Fasten using the 3/8” hex key



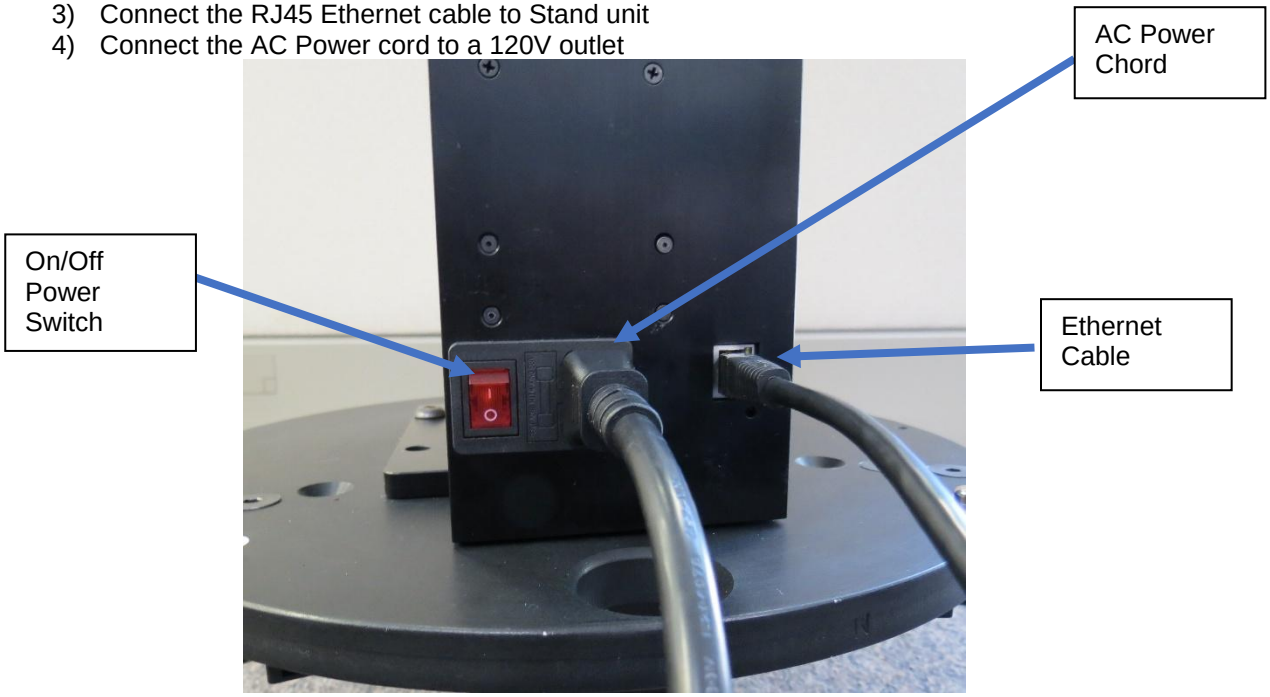
Connecting Electrical cables

1) Connect the 4 pin XLR coiled cable from the Stand’s electronic enclosure to the TeleSpin unit

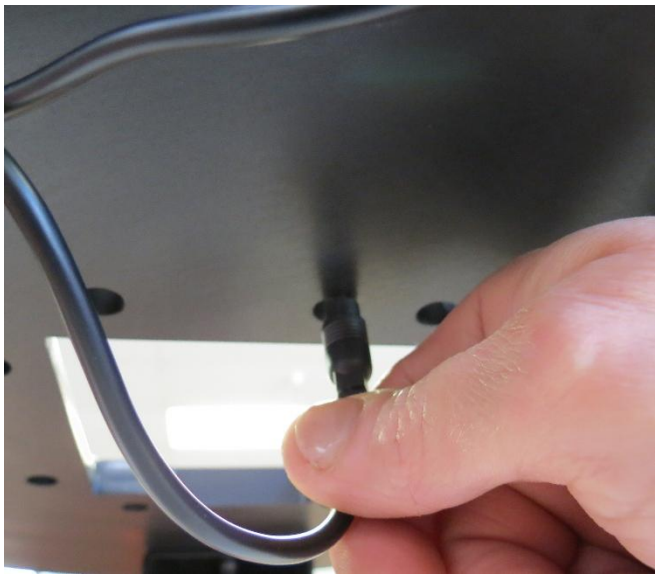


2) Connect the Coiled AC power cord from the 120VAC power strip to the Stand's electronics enclosure

3) Connect the RJ45 Ethernet cable to Stand unit
4) Connect the AC Power cord to a 120V outlet



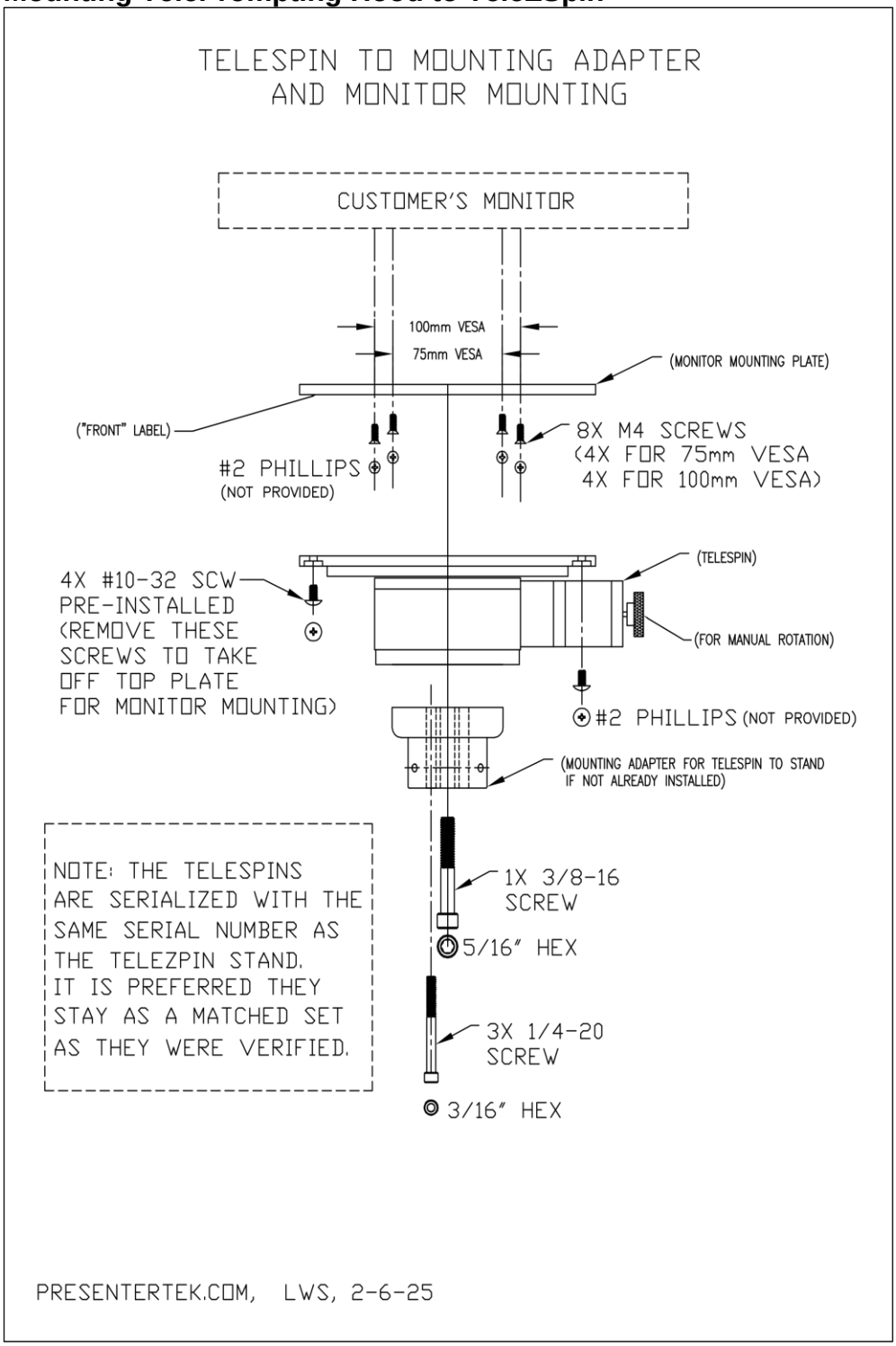
5) Plug in Footswitch plug into the jack underneath the baseplate. Press until firmly seated



Preliminary Test

6) Power the unit on using the On/Off switch next to the power chord
7) The Z axis stand should move to the home(lowest) position and the TeleSpin unit will rotate to its home position
8) Test the TeleSpin unit using the Red Toggle switch to Pan left or right
9) Test the Z axis using the two foot switches located on the base plate

Mounting TelePrompting Hood to TeleZSpin



Monitor Adapter Plate

The detachable monitor adapter plate provides the mounting interface between the TeleZSpin's top plate and the Teleprompting hood monitor. Both standard VESA 75mm or 100 mm mounting hole patterns are supported.

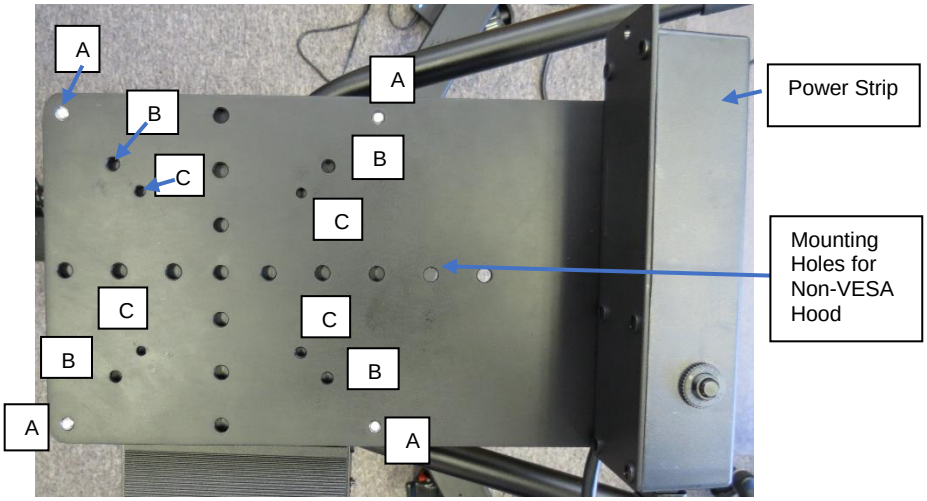


Figure 1: Monitor Adapter Plate

Label	Description
A	Thread the #10-32 Truss Hd Screws into the 4 outer tapped holes from the bottom of the Top Plate. Attaches VESA Monitor Adapter Plate to the Top Plate of the TeleSpinIP (4 places)
B	100 mm VESA monitor pattern. Uses M4 X 12 screws (4 places)
C	75 mm VESA monitor pattern. Uses M4 X 12 screws (4 places)

Figure 2: Monitor adapter plate with Monitor

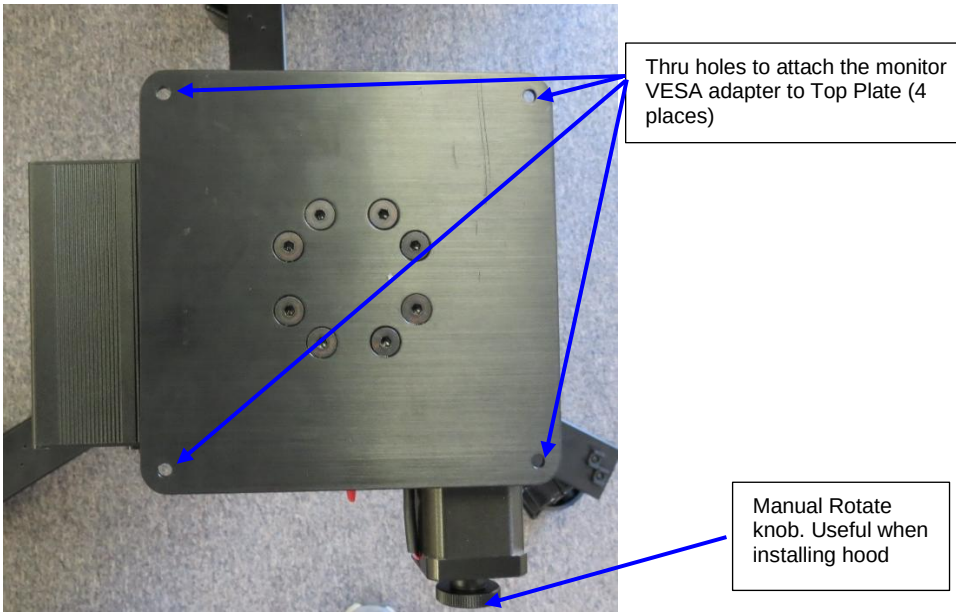
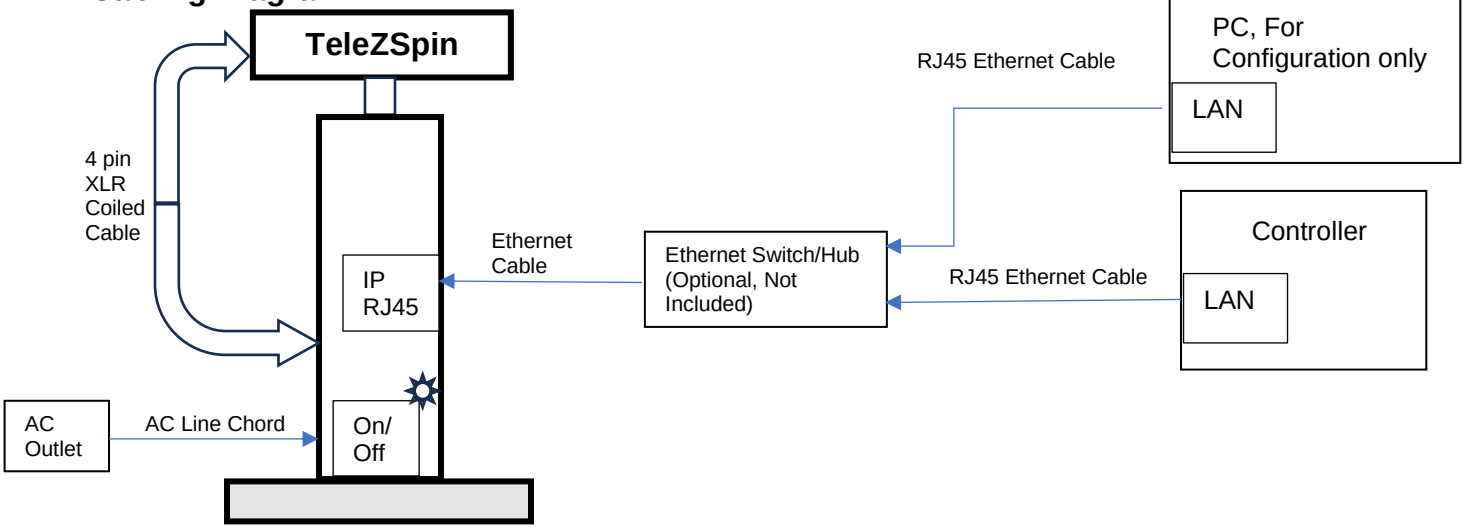


Figure 3: TeleZSpin 's Top Plate

1) Place hood on top of TezZSpin top plate
2) Tighten using M4-12 screws, 4 places, using #2 Phillips (not provided)

Cabling Diagram



Configuring the TeleZSpin for Controller operation

Overview

The TeleZSpin supports the various VISCA over IP protocols.

Options for controlling include

1) PTZ camera controllers, including Sony, PTZOptics, Skaarhoy, BirdDog, Bolin, Marshal, Lumens and RocoSoft and more
2) Broadcast Studio Controllers; NewTek, Ross Video…
3) PresenterTek's PC Based Software. Download from here: https://presentertek.com/telezspin/
4) PresenterTek's TouchScreen controller
5) Manual Up/Down footswitch and Pan Left/Right toggle switch located on unit

A TeleZSpin must be configured correctly to operate with these various controllers settings, IP address, port numbers, transport protocols (UDP or TCP) and the various VISCA protocols can be configured.

There are two methods for configuring the TeleZSpin:

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 …

2. Download PresenterTek's Controller app. Please contact PresenterTek for instructions on where to download this app, or download from here: https://presentertek.com/telezspin/

Web Server Configuration

Notes:

1. To use the Web-Server, The LAN on the PC must be configured to network as the TeleZSpin.
2. The Web-Server cannot configure the specific type of controller Protocol, Sony VISCA, VISCA …The PresenterTek IP Controller Software must be used

1. Power up TeleZSpin unit: a RJ45 ethernet cable must be connected to PC and the TeleZSpin, via either direct connection or an ethernet switch/hub
2. Enter TeleZSpin IP address into any web browser:

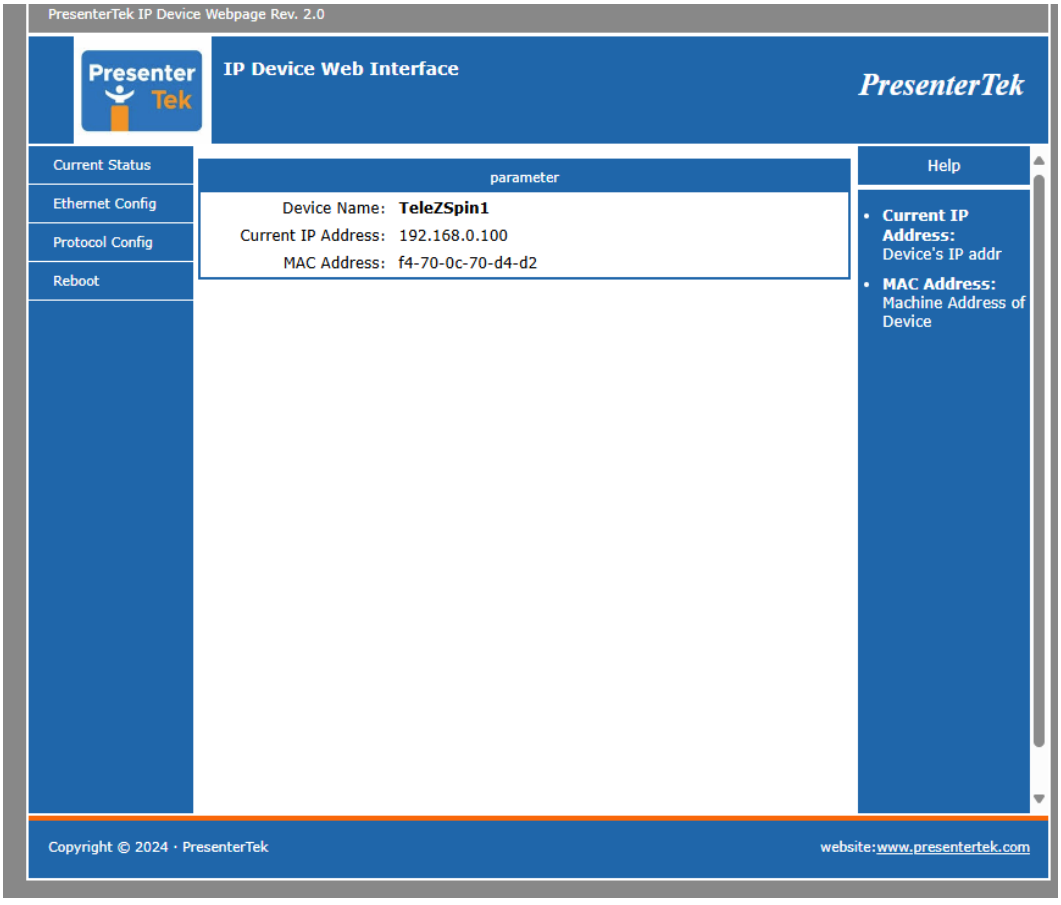
   Default IP: 192.168.0.100

   Once the Login page appears, input the following:

User name	admin
Password:	admin

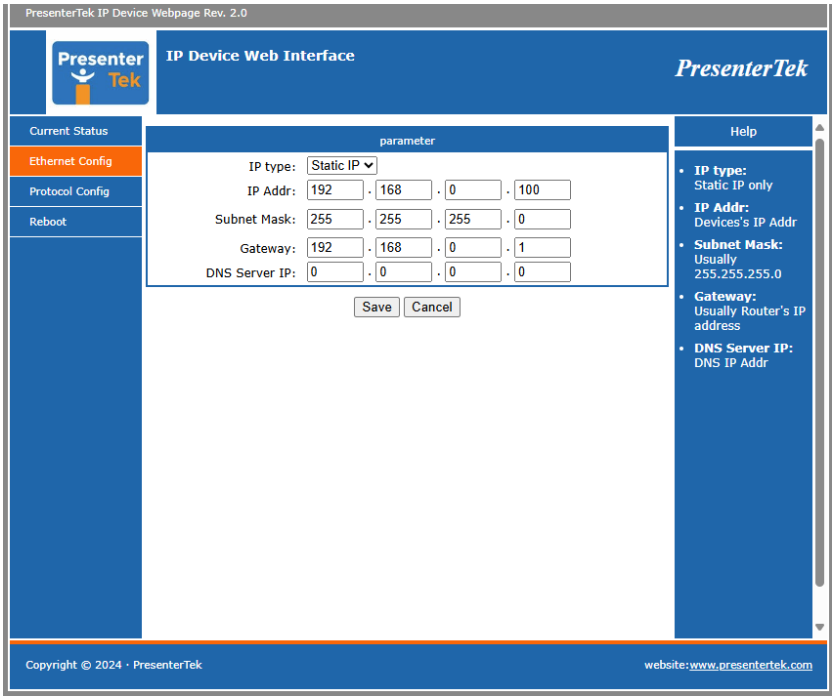
After the correct login credentials are inputted, the following will appear:

Web-Server Screenshot, Current Status Tab



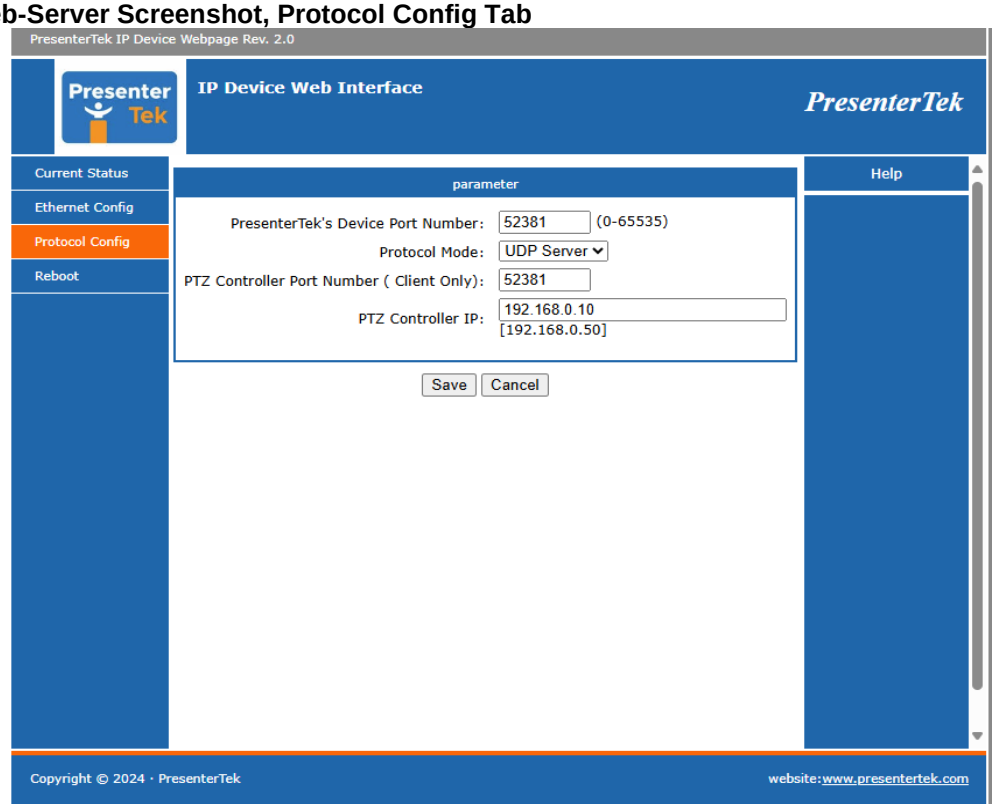
To change the modules IP address, Subnet Mask, Gateway or DNS Server, go to the Ethernet Config Tab. The following will appear. After changes are made, click “Save”

Web-Server Screenshot, Ethernet Config Tab



To change the TeleZSpin'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"

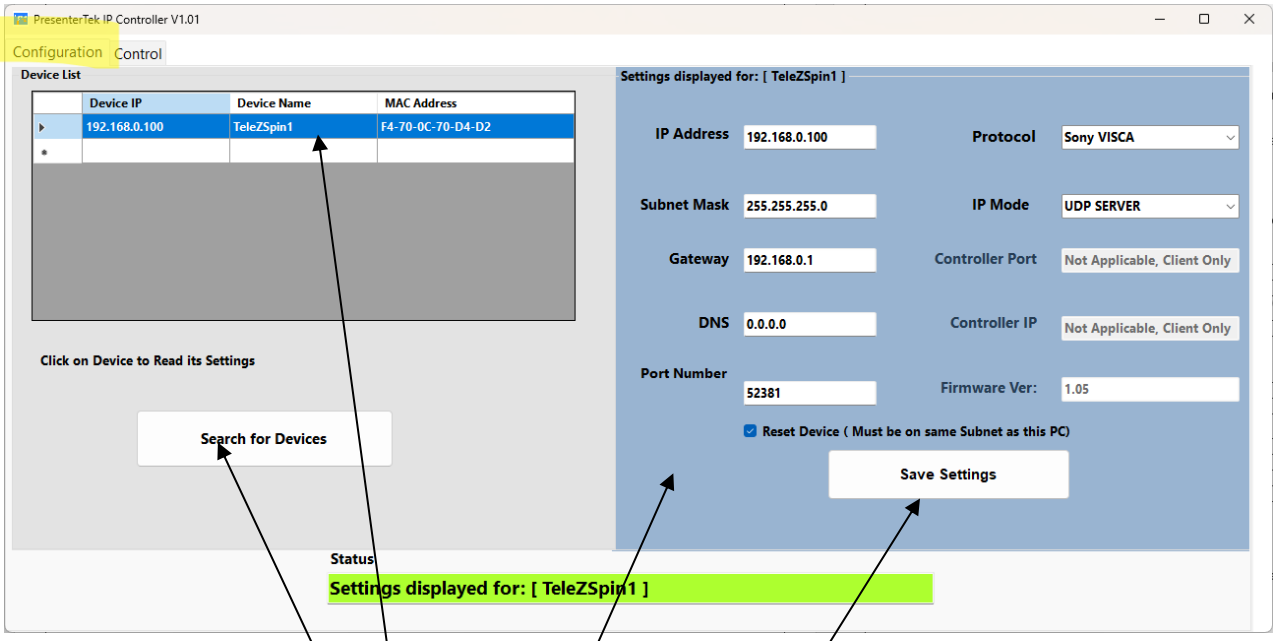
Web-Server Screenshot, Protocol Config Tab



PresenterTek's IP Controller app, Configuration Tab

a. Download and install the PresenterTek IP Controller app at: https://presentertek.com/telezspin/
b. Power up TeleZSpin unit. An Ethernet cable must be connected to Windows PC, (MAC not currently supported) and the TeleZSpin, either direct connect or via an ethernet switch/hub
c. Launch app
d. Select the "**Configuration**" Tab

PresenterTek IP Controller App Screenshot



e. Click on "**Search for Devices**"

f. Select desired TeleZSpin to configure from list

g. Input desired changes on right hand side.

h. When finished, click "**Save Settings**". The module will automatically reboot if the "Reset Device" is checked . This can take up to 10 seconds.

i. To verify correct settings, after TeleZSpin has rebooted, click "**Search For Devices**" and then select desired unit

Notes:

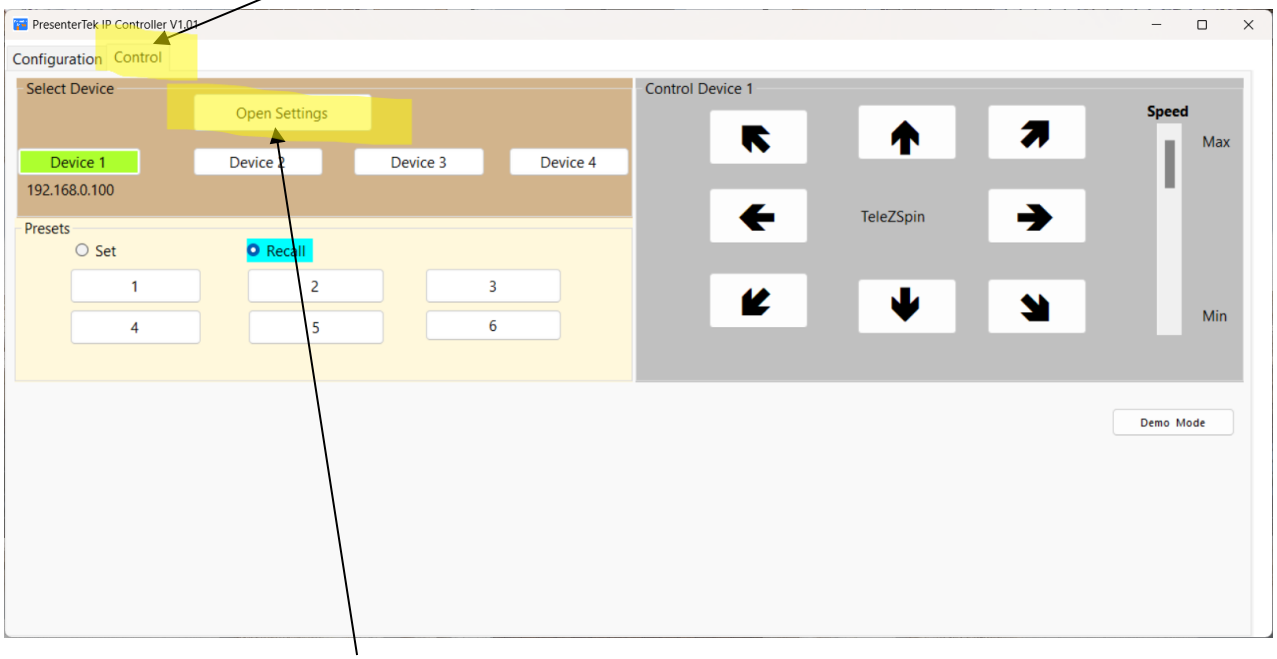
a. If the PC is not configured to be on the same LAN as the TeleZSpin, the "Protocol" and the "Firmware Ver" will not be readable. A Yellow "Connection Error" message will appear in those boxes. With Windows 10 Settings -> Network & internet->LAN-Properties

b. If more than instance of the app is running at the same time, unpredictable results may occur

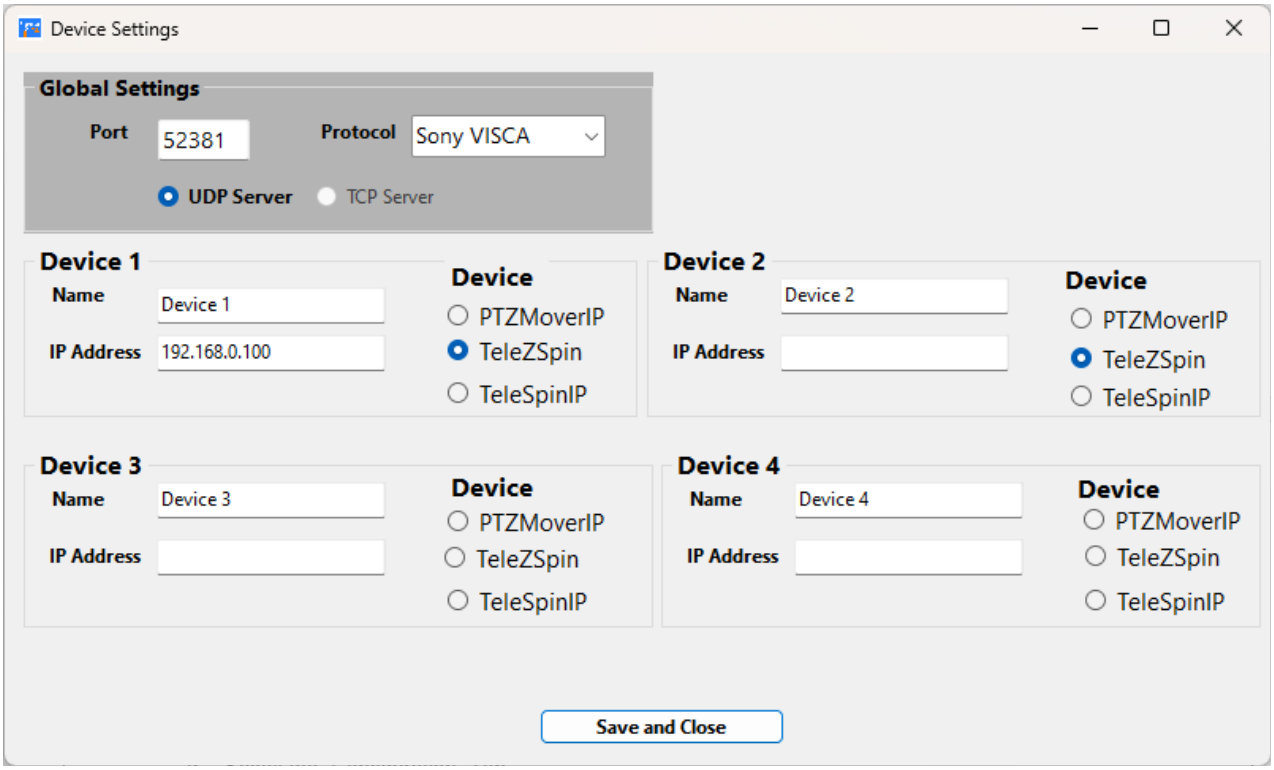
PresenterTek's IP Controller app, Control Tab

In order to test the TeleZSpin for proper operation:

a. Select the "**Control**" Tab

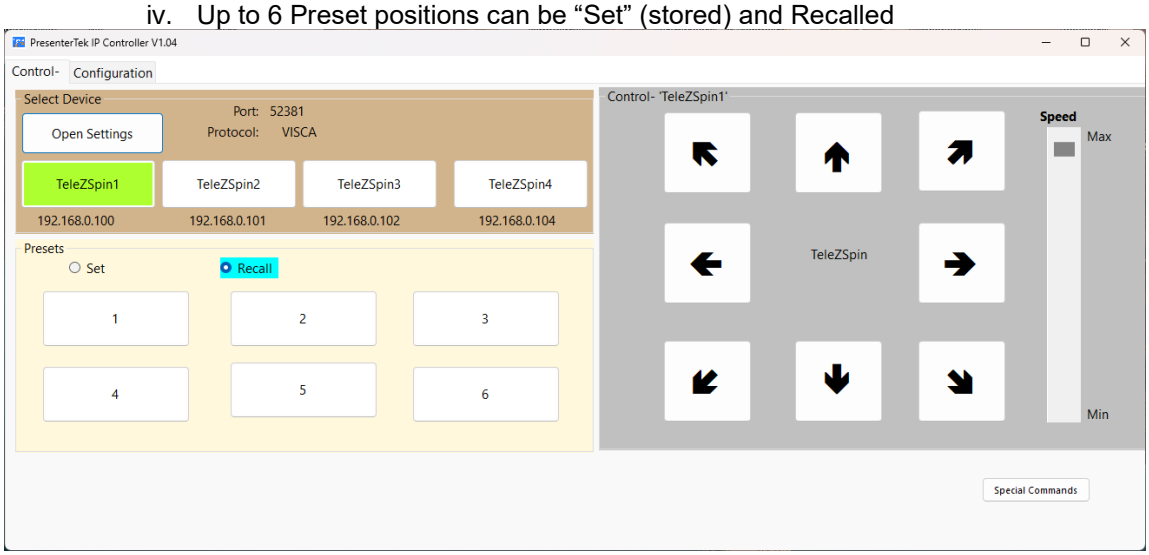


b. Click on the " **Open Settings**" button



c. Enter in the following as configured from the "Configuration" tab:
   a. **Port** (52381 is factory default)

b. **Protocol** (Sony VISCA, VISCA …)
c. **IP address** (192.168.0.100 factory default)
d. **Device Type**(PTZMoverIP, TeleZSpin or TeleSpinIP)
e. Reenter "**Device Name**" if desired
f. Click "**Save and Close**"
g. On the "**Control"** Form,
    i. Arrow buttons will move the TeleZSpin in the indicated direction
    ii. Up to 4 separate TeleZSpins can be controlled by selecting the correct "Device"
    iii. Speed can be controlled by using the "Speed" slider
    iv. Up to 6 Preset positions can be "Set" (stored) and Recalled



Note:
The PC must be configured to be on the same LAN as the TeleZSpin.
Setting the PC to the same TeleZSpin's Subnet Mask (default = 255.255.255.0), Gateway (default = 192.168.0.1) and some other unique IP address, 192.168.0.50 for example, will work

Configure for Sony RM-IP500 controller

Sony Overview:

The Sony RM-IP500 uses the Sony VISCA protocol, UDP Server at port 52381. The controller uses an Auto-IP setup to configure all network devices connected. This routine will automatically assign the IP address, Subnet mask and Gateway address based on MAC address of each device.

Either the PresenterTek's IP Controller app or the built in HTML web server can be used to configure the TeleZSpin

Sony RM-IP500 LAN defaults

Below are Sony's RM-IP500 factory default settings. Go to Config->LAN to get the actual settings:

Parameter	Value
IP Address (IP)	192.168.0.10
Subnet Mask (SM)	255.255.255.0
Gateway (GW)	192.168.0.1

TeleZSpin with Sony Controller settings:

Parameter	Value
IP Address	192.168.0.100(default)
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Protocol Mode	UDP Server
Controller Protocol:	Sony VISCA
Port	52381

There are two methods to configure the TeleZSpin to the Sony Controller

1) **Method 1**: Auto-IP Configuration
2) **Method 2**: Modify the TeleZSpin LAN parameters to match an existing camera in the RM-IP500's Camera Table. Not recommended, but will work

Sony Method 1: Auto -IP Step by Step instructions

Overview:

To use the Auto IP setup, the TeleZSpin's port must be configured to 52380. For normal operation, port 52381 must be used. The TeleZSpin must also be on the same subnet as the Sony RM-IP500.

Setting up the TeleZSpin is like setting up any Sony camera. The main difference is the TeleZSpin's port must be manually changed to 52380 for Auto IP Setup. Then, must be manually changed back to 52381. It is important to **reset or cycle power on the TeleZSpin** after changing the port number.

Resetting the TeleZSpin can be done using PresenterTek IP Controller app by checking the "Reset" box

1) Power up TeleZSpin stand. Cable as described above. Using a ethernet hub/switch with both the RM-IP500 and host computer connected to camera(s) prevents from swapping cables.
2) Using either the TeleZSpin's built in HTML server or the PresenterTek's IP Controller app.
    a. Change the TeleZSpin Port to 52380.
    b. The TeleZSpin must be **reset** after changing the Port number. This can be done by either:
        i. Cycle the power on the TeleZSpin
        ii. Make sure the "Reset Device" checkbox in the PresenterTek's IP Controller app is selected and make sure the TeleZSpin resets
3) On the RM-IP500. Auto set the LAN parameters
    a. Auto IP Setup -> Setup IP->**EXEC** -> Press" Value knob. "*Wait a Few Seconds*" will appear.

        If "*No Cameras Found*" message appears, try cycling the power on the TeleZSpin and try again. Verify that the TeleZSpin port is 52380

    b. Confirm Execution -> Confirm -> **YES**, then press "Value" button. "Wait a few Seconds' and then "*Complete Done*" should appear.
    c. Use "Cancel" button to back out of menu
4) Assigning the TeleZSpin to the desired Camera Number/Group on the Sony RM-IP500
    c. Auto IP Setup->Assign CAM
    d. Select desired Group Num and Camera Num for the TeleZSpin
    e. CAM->**EXEC**, "*Wait a Few Seconds*" will appear

f. Scroll down to "*KEEP IP*" Select "**EXEC**", then press "Value" knob
g. Confirm -> Yes. Press "Value" knob. Then "*Complete Done*" should appear on display
h. Hit CANCEL button to exit menu

5) To verify, Check the Camera Table on the RM-IP500, "Auto-IP Setup-> Camera Table". The TeleZSpin should show up. You can verify by checking the MAC address
6) Open PresenterTek's Configuration app, or the built in HTML web server, to change port to 52381. on the TeleZSpin
7) Reset or cycle power on the TeleZSpin

Sony Method 2: Modifying TeleZSpin to match an existing Camera in the Camera Table

1) If a camera does not already exist in the Camera Table, attach a Sony Camera, and run "Auto IP Setup->Setup IP"
2) The selected camera, remove from the LAN by either powering off or removing the Ethernet cable
3) Examine the Camera Table ("Auto IP Setup ->Setup IP-> Camera Table")
4) Select the camera number you wish the TeleZSpin to assign, note its IP address
5) Using either the TeleZSpin's Built in Web-server, or the PresenterTek's IP Controller App, described above, configure the TeleZSpin as follows.

Parameter	Value	How to Find using Sony Controller
IP Address: (IP:)	Match value in Camera Table	"Auto IP Setup ->Setup IP-> Camera Table"
Subnet Mask: (SM:	Match Sony controller's	"Config ->LAN"
Gateway (GW:)	Match Sony controller's	"Config ->LAN"
TeleZSpin Port	52381	
Protocol Mode	UDP Server	

6) To put the Sony PTZ Camera back in the table, connect the camera and use the "Auto IP Setup -> Setup IP"

Operation with Sony RM-IP500

The following controls are active with the RM-IP500

a. Correct Camera Number/Group that was assigned must be selected
b. Joystick-- Up/Down/Pan Left/Pan Right
c. Speed knob
d. Storing, Recall and moving to Preset positions.
e. P/T RST – Re-home both Axes

Note: With the Joystick at max speed (max deflection), there is some run on after the joystick is released. Lowering the Speed will fix this issue.

Configure for Sony's RM-IP10 PTZ Camera Controller

Sony's RM-IP10 Setup application configuration:

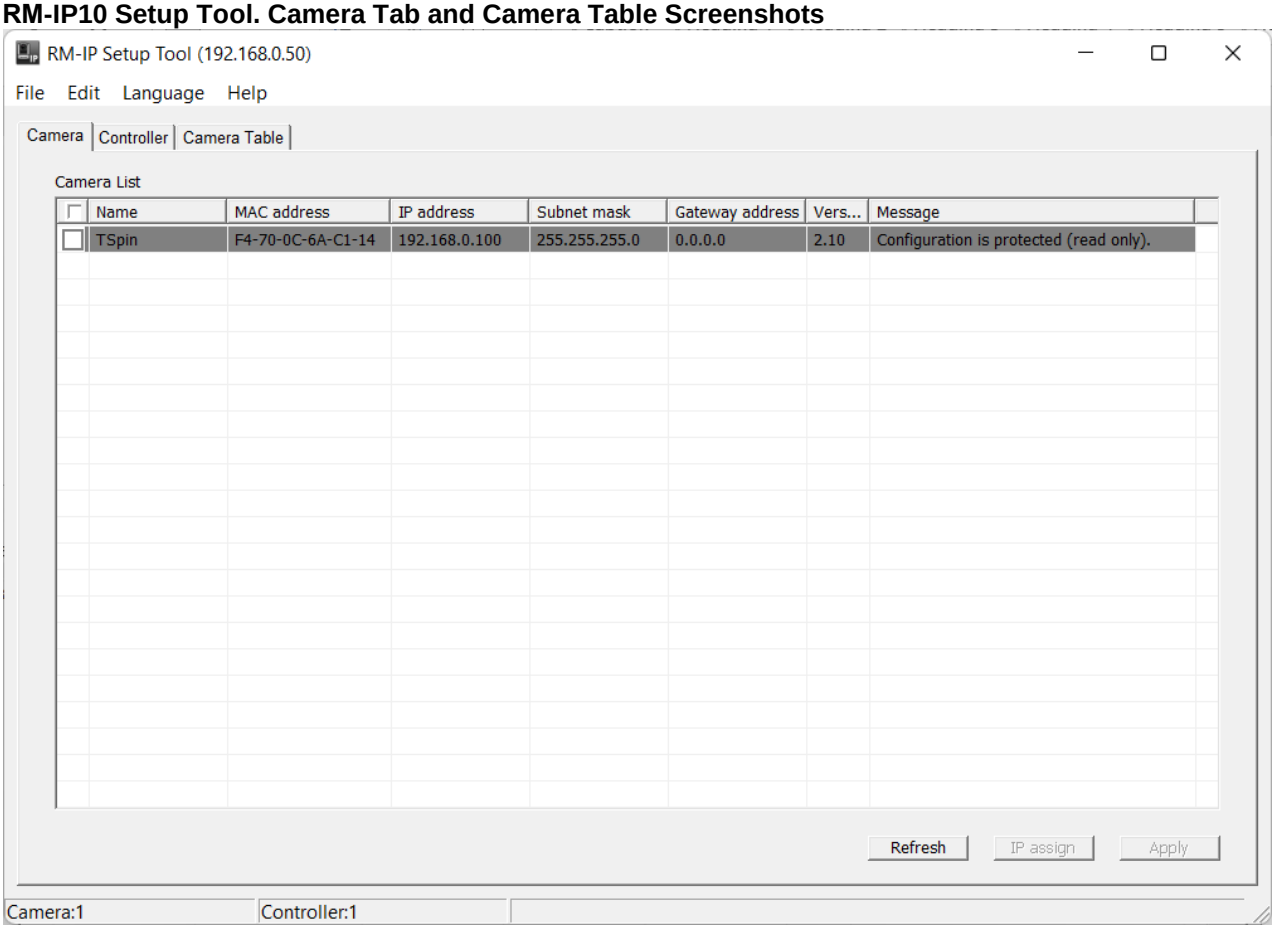
a) Power up TeleZSpin stand. An ethernet cable must be connected to PC and the TeleZSpin, either directly connected or via an ethernet switch.
b) The TeleZSpin's Protocol Mode must be UDP Server at Port 52380
c) When the port number is changed, the power must be cycled, or the unit reset, on the TeleZSpin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

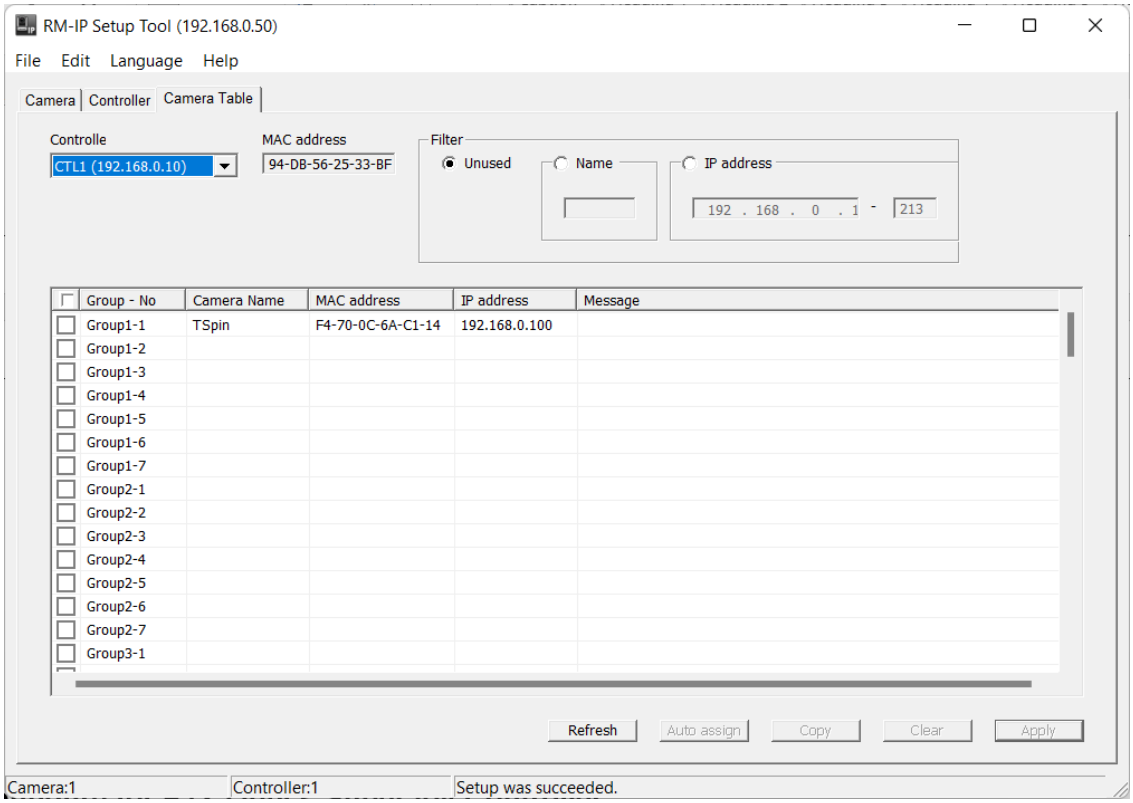
Web Server	

Ethernet Config Tab		
	IP Addr:	N/A
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab		
	PresenterTeks's Device Port Number	52380
	PTZ Port Controller Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
PresenterTek's IP Controller App		
	IP Address	N/A
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	Port Number	52380
	IP Mode	UDP Server
	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-IP10 Setup Tool. Camera Tab and Camera Table Screenshots





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

Note: When the port number for the TeleZSpin is changed back to 52381. **The power must be cycled, or the unit Reset,** for it to take effect.

Configuration for PTZ Optics SuperJoy Controller:

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

Using Sony VISCA Over IP protocol

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		
	PresenterTeks's Device Port Number	52381(Default, but can be changed in the PTZ controller)
	PTZ Controller Port Number	N/A

	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
PresenterTek's Controller App		
	IP Address	Must match controller setting for the TeleZSpin
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	Port Number	52381(Default, but can be changed in the PTZ controller)
	IP Mode	UDP Server
	Protocol	Sony VISCA
	Controller Port	N/A
	Controller IP	N/A

Using VISCA Over IP protocol

TeleZSpin must be set to VISCA over IP protocol using the TeleZSpin 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 TeleZSpin.
	Subnet Mask:	Configure for LAN
	Gateway	Configure for LAN
	DNS Server IP:	N/A
Protocol Config Tab		
	PresenterTeks's Device Port Number	1259
	PTZ Port Controller Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
PresenterTek's IP Controller App		
	IP Address	Must match controller's setting for the TeleZSpin
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	Port Number	1259
	IP Mode	UDP Server
	Protocol	VISCA
	Controller Port	N/A
	Controller IP	N/A

Configure for PTZ Optics Windows Controller App

The Windows PTZOptics controller app uses TCP Server at port 5678.

TeleZSpin must be set to VISCA protocol using the PresenterTek's IP Controller App. In addition, TCP Server and Port 5678 must be selected.

Web Server		
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		
	PresenterTek's Device Port Number	5678
	PTZ Controller Port Number	N/A
	Protocol Mode	TCP Server
	PTZ Controller IP:	N/A
PresenterTek's IP Controller App		
	IP Address	Must match PTZ Controller's setting
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	Port Number	5678
	IP Mode	TCP Server
	Protocol	VISCA
	Controller Port	N/A
	Controller IP	N/A

Configure for Bolin/ BirdDog / Lumens/ Marshall PTZ Camera Controllers

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

Web Server		
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		
	PresenterTeks's Device Port Number	52381
	PTZ Controller Port Number	N/A
	Protocol Mode	UDP Server
	PTZ Controller IP:	N/A
PresenterTek's IP Controller App		
	IP Address	Must match PTZ Controller's setting
	Subnet Mask	Configure for LAN
	Gateway	Configure for LAN
	DNS	N/A
	Port Number	52381
	IP Mode	UDP Server
	Protocol	VISCA = No Header Sony VISCA = Header on Note: BirdDog controllers must use: BirdDog with Header or BirdDog No Header. Must match controller setting
	Controller Port	N/A
	Controller IP	N/A

Operation:

Operation via PTZ Controller

Typically, the TeleZSpin unique IP address will also be assigned to a unique Camera number. Use the Up/Down/PanLeft/PanRight on the Joy Stick for both Z axis and Spin movement. Preset positions, pan and tilt speeds are also configurable using the PTZ Controller.

Note: the PTZ Camera Controller will not operate the TeleZSpin until both axes, the rotation and Z-axis are completely initialized after a power cycle.

Operation via PresenterTek's TouchScreen PC Controller

1) Connect Power to the PC via the "DC 12V" input
2) Power up the PC, PresenterTek's app will automatically open

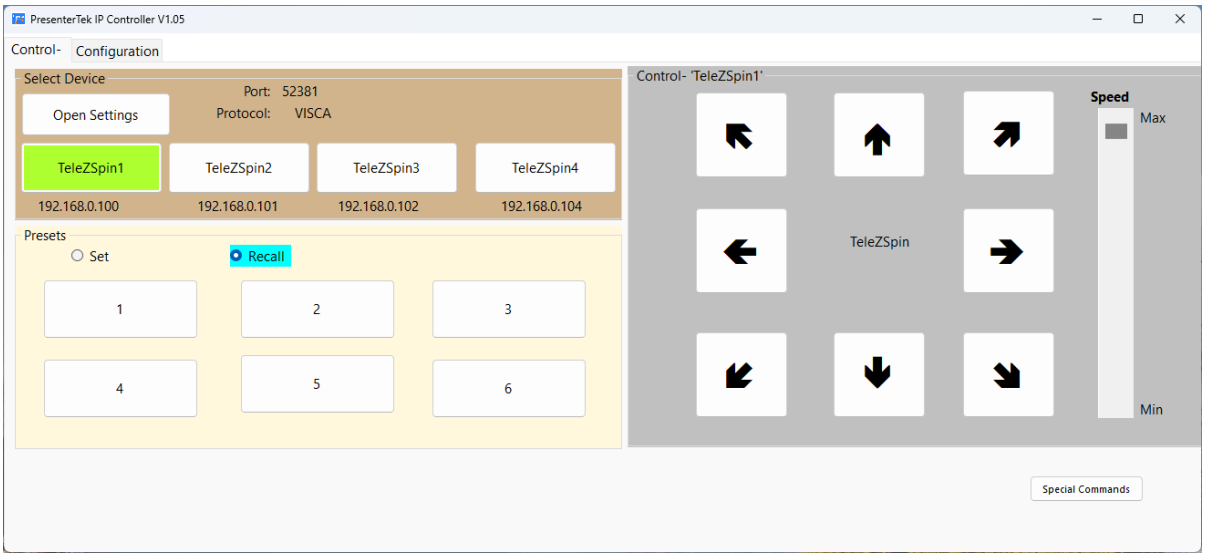
3) Using an RJ45, Ethernet cable , connect one end to the back “LAN” port and the other end to the “IP” input on the TeleZSpin

On/Off Button

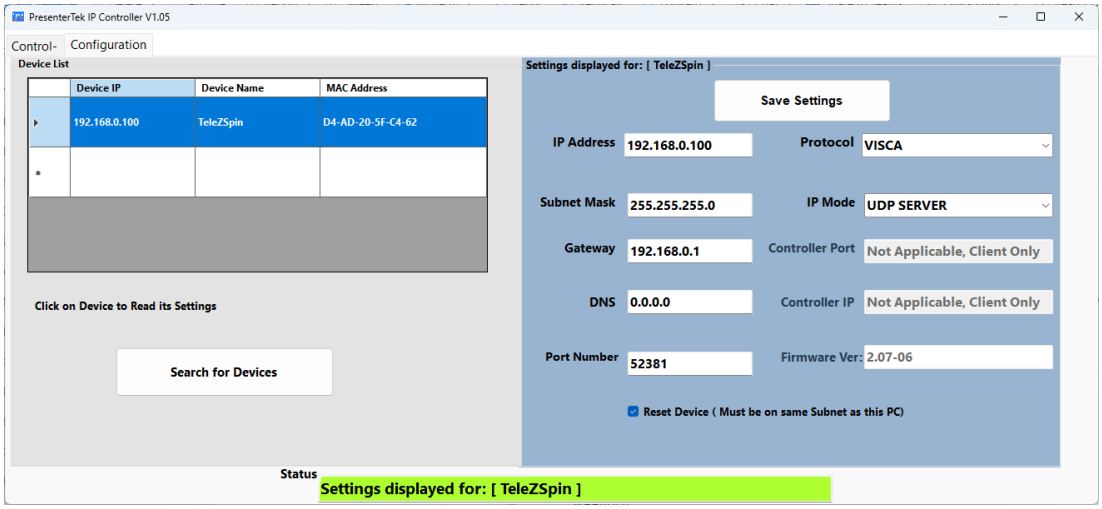
Power Input

LAN Port, Connect ethernet cable from here to TeleZSpin “IP” input

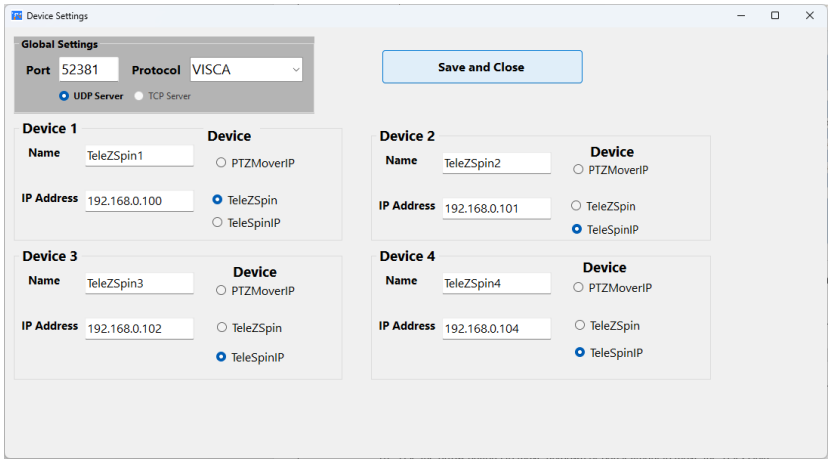
4) PresenterTek’s IP Controller app will automatically launch



5) Use “Configuration” Tab to configure to your LAN, and “Open Settings” to configure the app



6) Use the “Open Settings” to configure the app



Note:

If TeleZSpin and Touchscreen controller shipped from PresenterTek, we will automatically configure both of these for you

7) Select the “Device” to control
8) Use the arrow buttons to move up/down or pan left/right to move the TeleZSpin
9) Up to 6 Presets positions are available
10) Optionally, a mouse can be used in addition to the touch interface

Up/Down Manual Operation via Foot Switches

Two Up/Down momentary foot switches are mounted to the baseplate for Z-axis motion.

Pan Left\Right Manual operation

A toggle switch is mounted on the side of the TeleZSpin’s Spin module that will allow manual operation of the PAN axis

Demo Mode

If the PTZ Remote Control has a Backlight button, select the current TeleZSpin. 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 Firmware Upgrade app by double clicking Setup.exe and following the instructions. Please contract Tech support for the necessary files
2. Connect an Ethernet cable from the PC to the TeleZSpin.
3. Ensure that the PC is on the same local network as the TeleZSpin.
   With Windows 10 Settings -> Network & internet->LAN-Properties

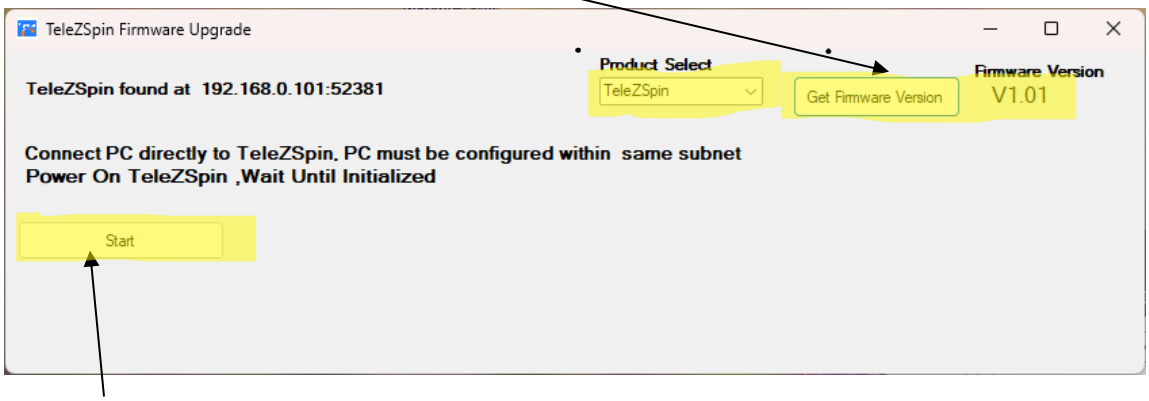
Note:

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

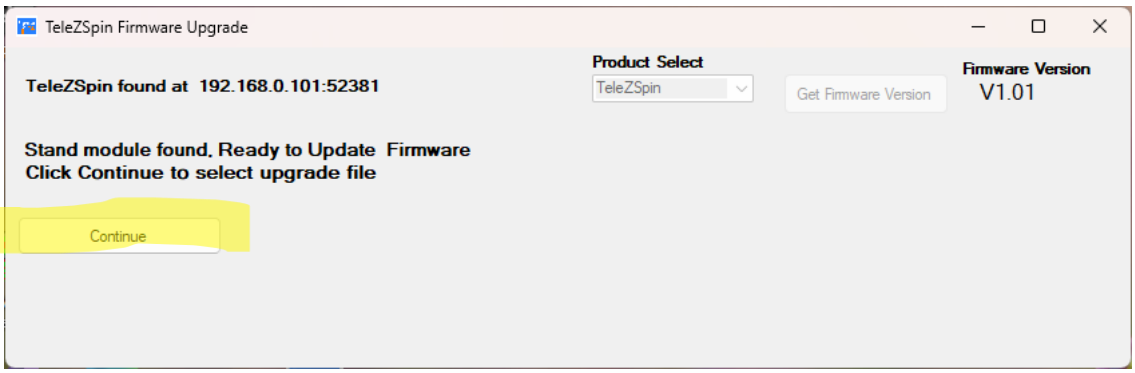
No other devices can communicate with the TeleZSpin during the firmware upgrade process. Disconnect any PTZ Camera controller.

A direct connection from the PC to the TeleZSpin is **strongly recommended**

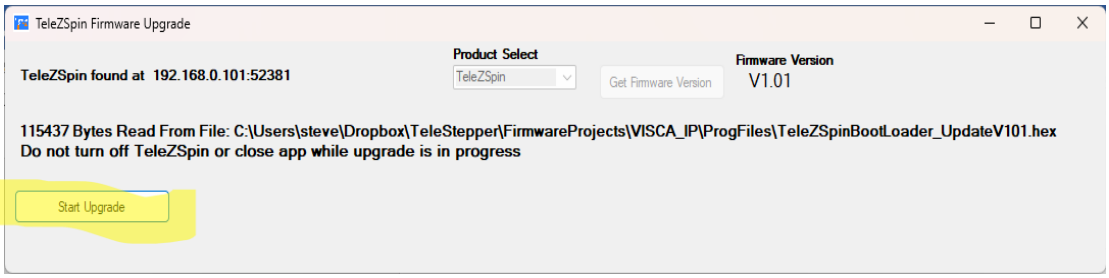
4. Power up TeleZSpin and wait until initialized. That is, both axes are idle
5. Launch Firmware Upgrade App
6. Ensure that **Product Select** is set correctly
7. Click "**Get Firmware Version**" If a Firmware Version is displayed, the PC is correctly connected to the TeleZSpin



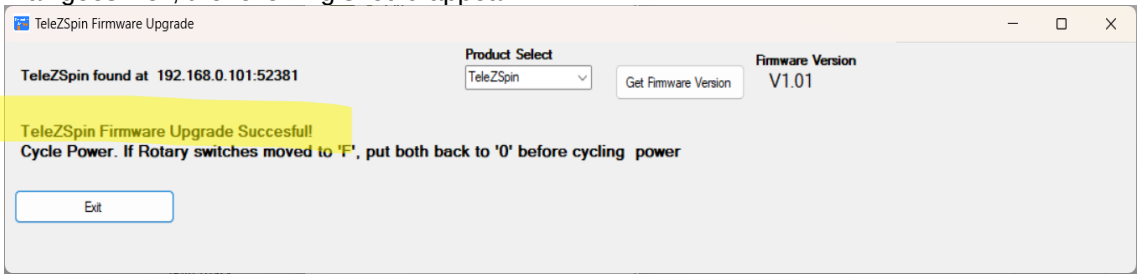
8. Click "**Start"** the following will appear:



9. Click "**Continue**" and select correct update file, upgrade file will be supplied by PresenterTek. The firmware upgrade file name will be in the format "TeleZSpinUpdate_VXXX.hex". Where VXXX is the firmware revision



10. Click "**Start Upgrade**"
11. Wait until Firmware upgrade is complete
12. If all goes well, the following should appear:



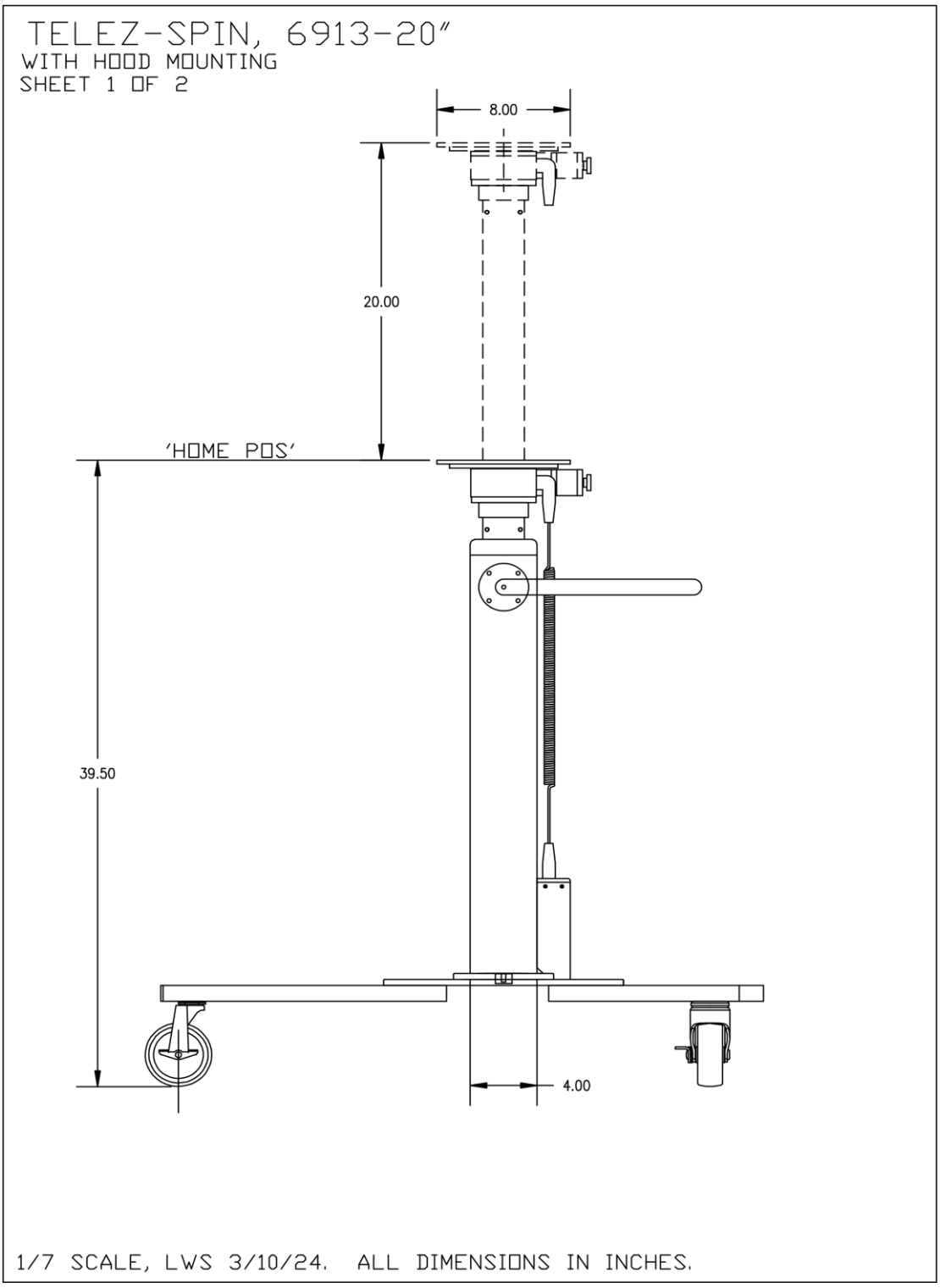
Click “**Exit**”, Cycle the power on the TeleZSpin. To verify, relaunch the Firmware Upgrade app and verify the firmware version

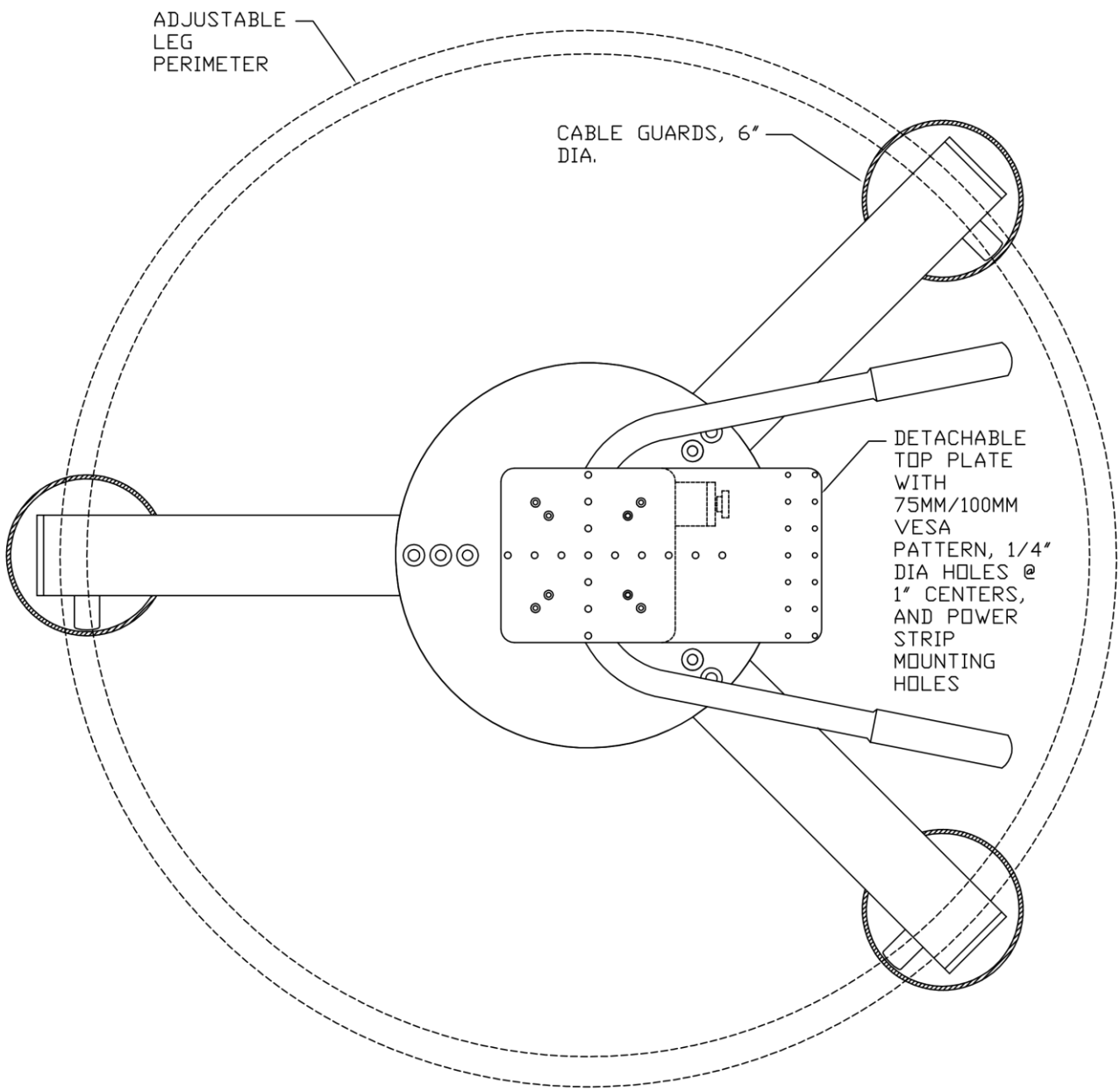
Warning!

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 a corrupted firmware upgrade procedure. Please contact technical support if this occurs

TeleZSpin Drawings





TELE Z-SPIN PLAN VIEW