PresenterTek's TeleSpinIP Operators Manual
Rev A, 5/17/2023

# Contents

## Overview:

The TeleSpinIP allows for rotation of studio teleprompters of up to +/- 135 degrees using any PTZ Camera Controller ( not supplied). The TeleSpinIP mounts to any standard tripod with a 3/8 -16 dovetail mounting bracket. The Teleprompting hood monitor, either 75mm or 100 mm , mounts to the top to the TeleSpinIP.

The TeleSpinIP can be configured for the variety of VISCA standards currently available ( other protocols coming soon). A built in Web-HTML Server allows full IP/Local Area Network (LAN) configuration using any web-browser. In addition, a Microsoft Windows App can also be used.

Multiple TeleSpinIP's can be controller from a single PTZ Camera Controller. The TeleSpinIP runs off a single +24V power supply and control is via a single RJ45 ethernet cable

## TeleSpinIP Setup:

1) Attach customer-supplied monitor/teleprompter unit to the TeleSpinIP's upper detachable Monitor Adapter Plate using the appropriate M4 or M5 flathead screws provided, noting forward-facing orientation ('Front' label). Ref. Figure1 and 2.
2) Attach the plate/teleprompter unit to the TeleSpinIP's Top Plate.
   Ref. Figure 1, 2 and 3.
3) If it is desired to limit the rotation to less than +/-135 degrees, two optional Limit Bolts are provided. Ref. Figure 3 and 4.
4) Plug Ethernet cable into the RJ45 inputs on the back of the TeleSpinIP. Connect remaining end into either an ethernet switch of the directly to the PTZ Camera Controller
   Ref. Fig.6 for cabling diagram
5) Insert 3 pin XLR power supply connector located on underside of TeleSpinIP.
   Ref. Fig.4.
6) Insert power supply into a wall outlet; a  power LED on the supply will illuminate.
7) Power up unit using the Red power switch, located on the back of the TeleSpinIP. Verify power switch is illuminated.

   CAUTION:  TELESPINIP WILL MOVE TO THE HOME POSITION AUTOMATICALLY ON POWER UP.

**Reducing TeleSpin Travel**

If desired, the TeleSpinIP 's rotation can be limited to less than the +/- 135-degreemaximum rotation.  Locate the included two Limit Bolts and thread them into the desired location on the Top Plate for symmetric limits.  Tighten bolts with 5/32" hex key. Note: Do not remove the fixed Limit Bolt placed at the 0-degree position.

**VESA Monitor Adapter Plate**

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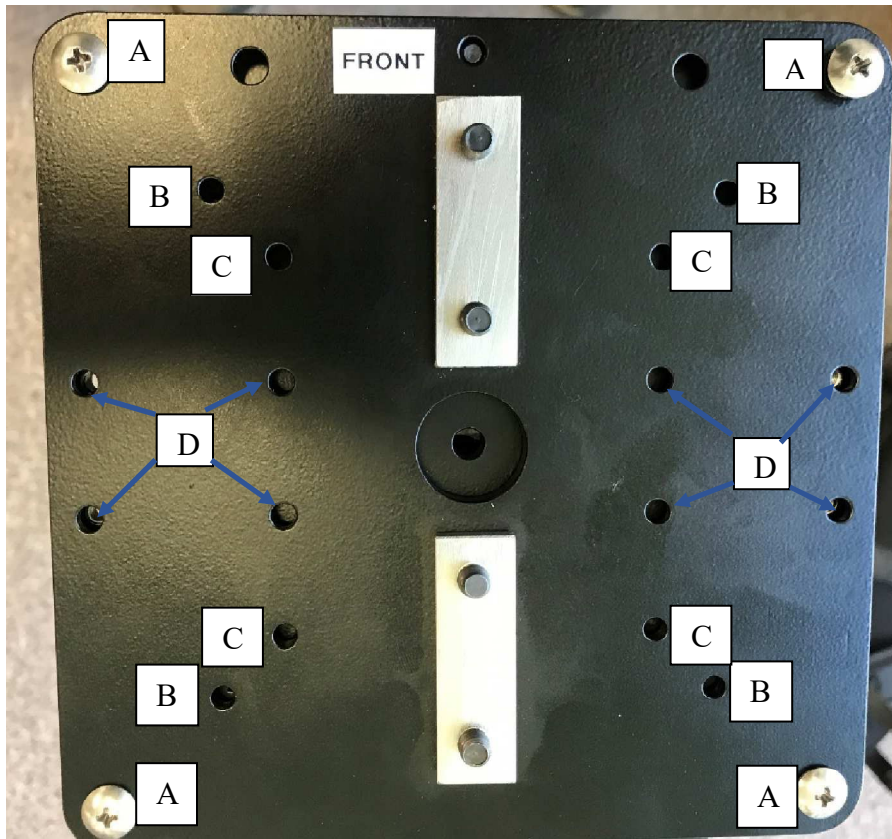


**Figure 1: VESA Monitor Adapter Plate**

| 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 M5 X 12 screws (not included (4 places) |
| C | 75 mm VESA monitor pattern. Uses M4 X 12 screws (not included (4 places) |
| D | Optional Overhead Cradle Mount.( 8 places) |

**Figure 2: VESA Monitor adapter plate with Monitor**

Labels in Figure 2:
- VESA Monitor (not included) with both 100 mm and 75 mm pattern
- Alignment hole to threaded post on Top
- VESA Monitor Adapter Plate
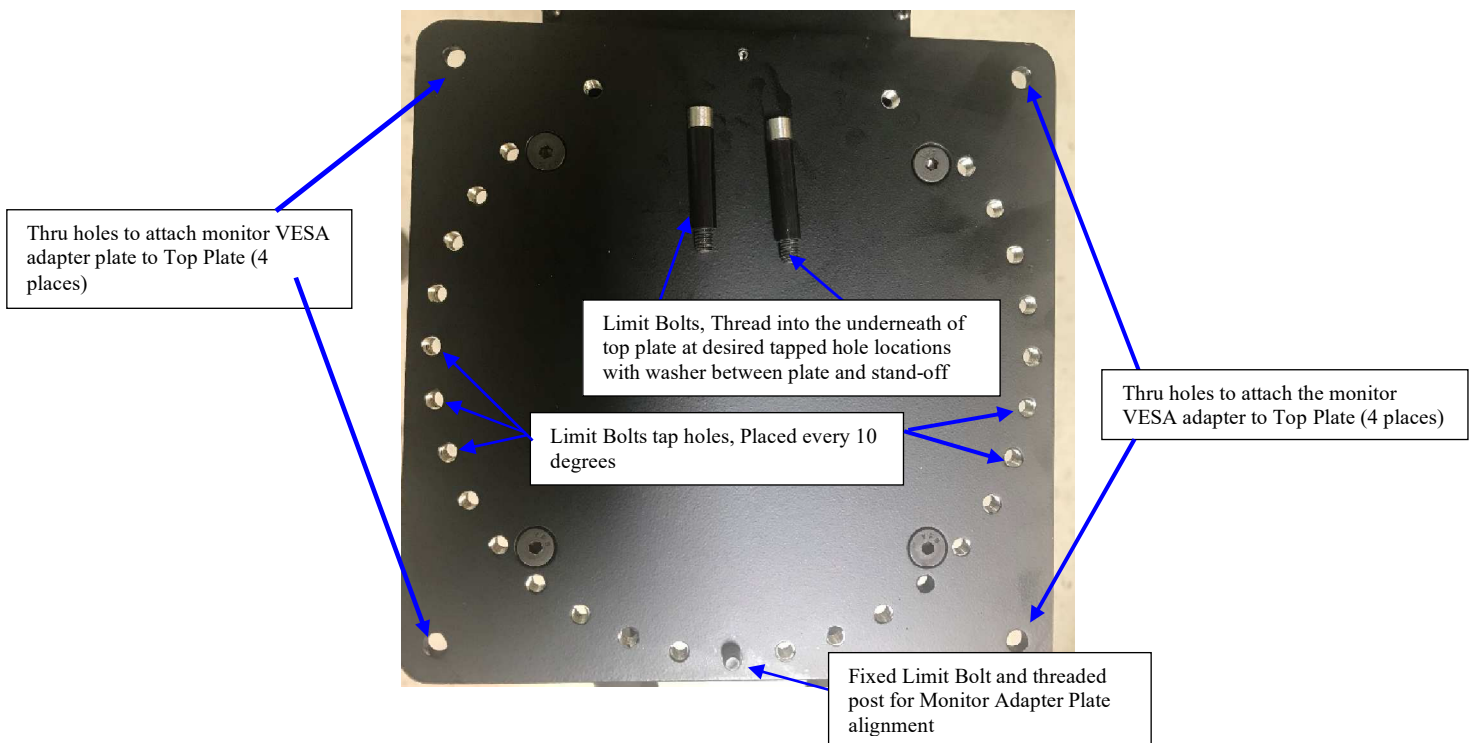


**Figure 3: TeleSpinIP 's Top Plate**

Labels in Figure 3:
- Thru holes to attach monitor VESA adapter plate to Top Plate (4 places)
- Limit Bolts, Thread into the underneath of top plate at desired tapped hole locations with washer between plate and stand-off
- Limit Bolts tap holes, Placed every 10 degrees
- Thru holes to attach the monitor VESA adapter to Top Plate (4 places)
- Fixed Limit Bolt and threaded post for Monitor Adapter Plate alignment

**Figure 4: TeleSpinIP Bottom View**

3 pin XLR Power Input Connector

¼-20 thread, 3/8" maximum depth, screw hole for cable management

Fixed Limit Bolt, DO NOT REMOVE

3/8 -16 mounting holes to Tripod's Dovetail mounting plate (2 places)

¼-20 mounting holes to Tripod's Dovetail mounting plate (6 places)

Limit Bolts Holes, Placed every 10 degrees

LIMIT BOLTS

Optional Limit Bolts with Washers (Qtv 2)



**Figure 5: TeleSpinIP Rear View**

On/Off Power Switch

3 pin XLR Power Input

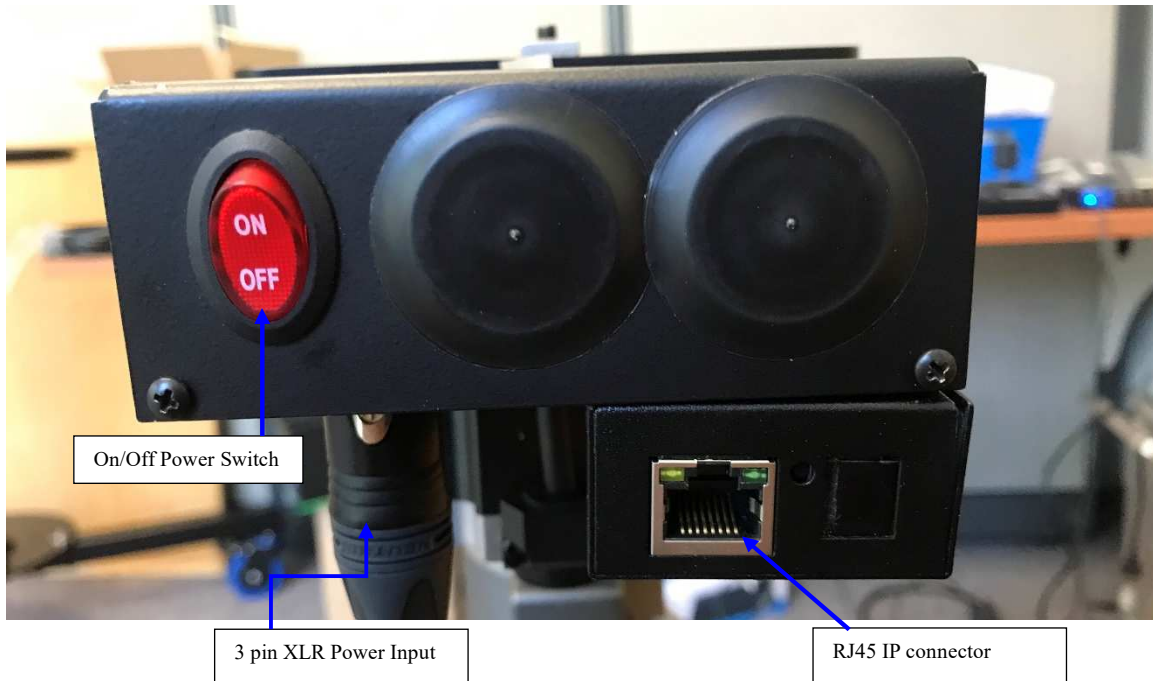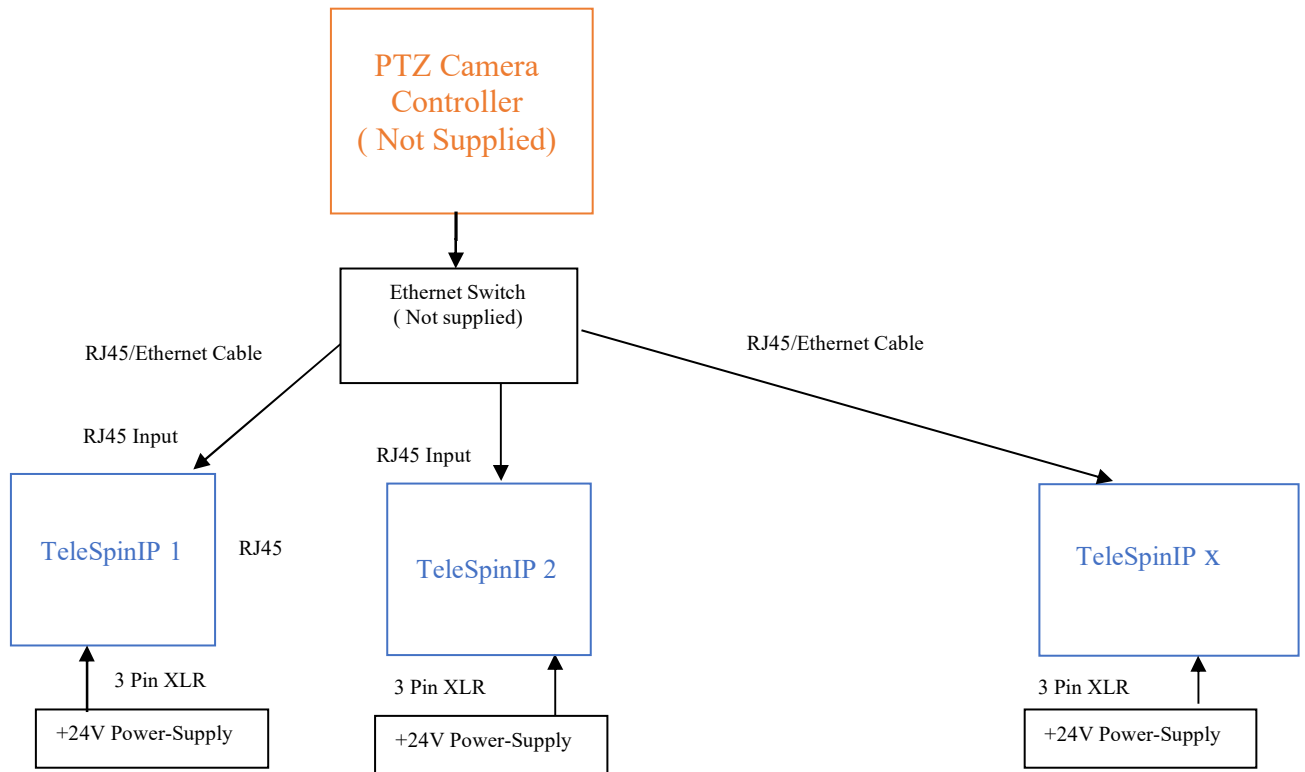RJ45 IP connector

**Figure 6: TeleSpinIP Cabling**

**Re-homing the TeleSpinIP if manually moved**

If the TeleSpin is manually moved or bumped from original position, the preset position settings are no longer valid. To re-home the unit(s), simply cycle the power. Some PTZ Camera controllers have a Homing button.

# Configuring the TeleSpinIP for PTZ Camera Controller operation

**Overview**

The TeleSpinIP supports 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 and RocoSoft.

A TeleSpinIP 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 (coming soon) protocols can be configured.

There are two methods for configuring the TeleSpinIP:

1. Use the built in **Web-Server**. The default IP address is 192.168.0.101. 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 TeleSpinIP

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 | 192.168.0.101 |
| --- | --- |
| 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 TeleZSpin

**Web-Server Configuration**

a)  Power up TeleSpinIP unit: a RJ45 ethernet cable must be connected to PC and the TeleSpinIP, via either direct connection or an ethernet switch.

b)  Enter TeleSpinIP address into any web browser:
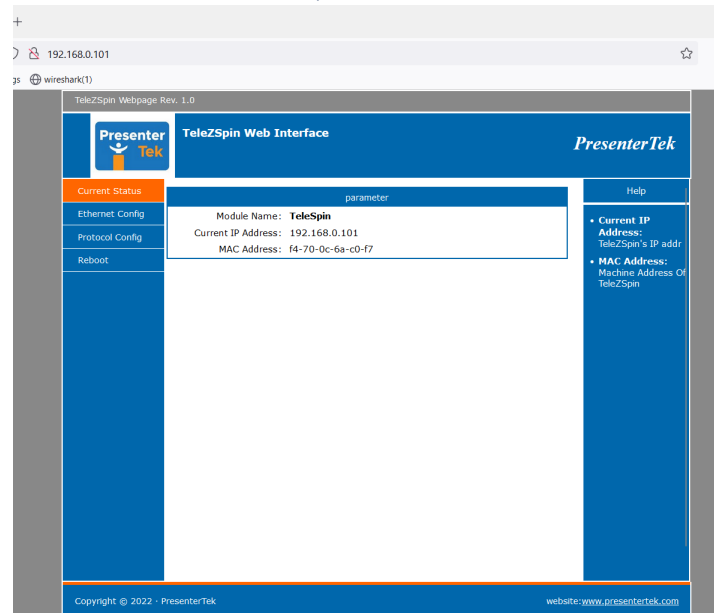
Default IP 192.168.0.101
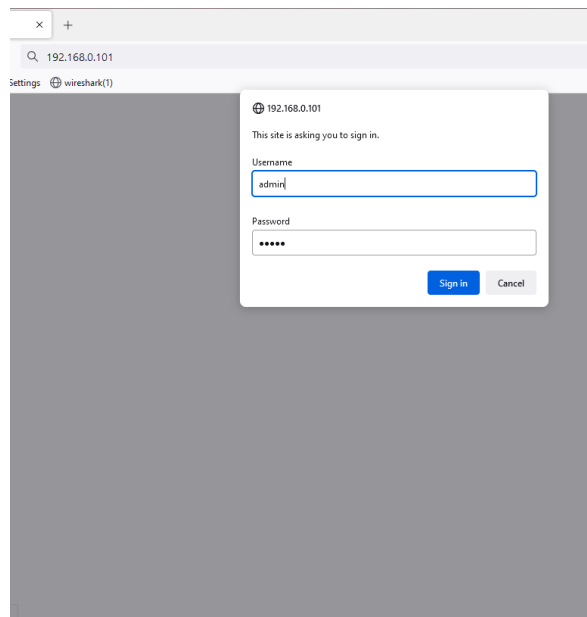


Once the Login page appears, input the following:

User name: admin
Password: admin

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

Web-Server Screenshot, 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" and then "Restart Module"

## Web-Server Screenshot, Ethernet Config Tab
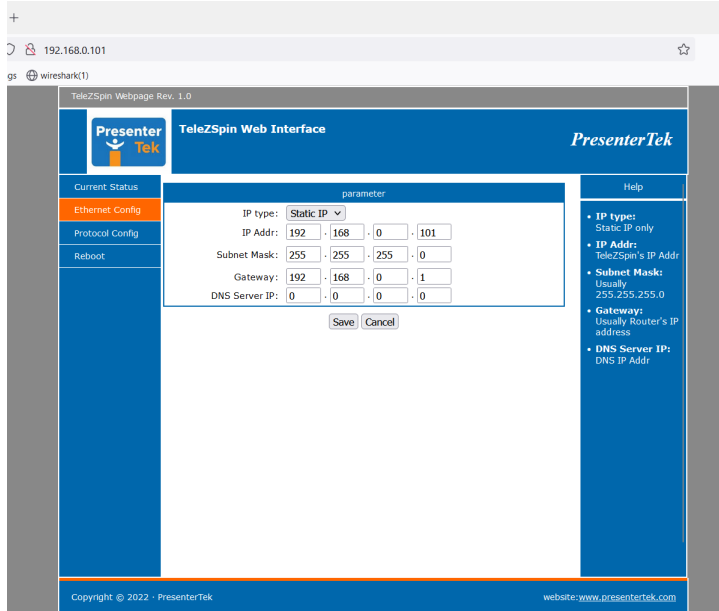


To change the TeleSpinIP's port number, Protocol Mode, PTZ camera controller's port number or PTZ camera controller's IP address, click to the Protocol Config tab. The following screenshot will appear, and after all changes are made, click "Save" and then "Restart Module". Restarting the module can take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

After the "IOT Device Restarted "page appears, cycle power on the TeleSpinIP.

## Web-Server Screenshot, Protocol Config Tab
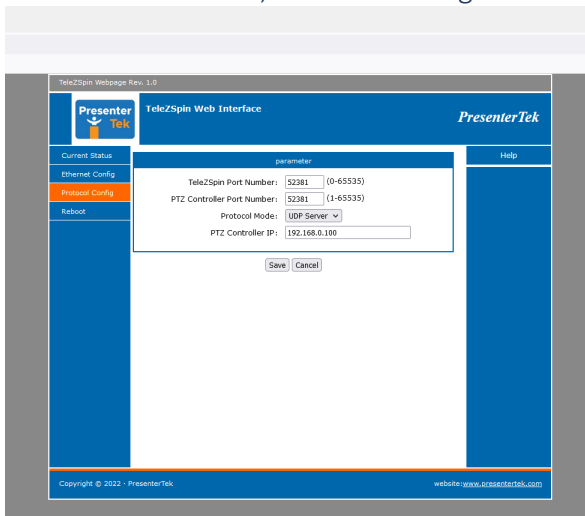
**PresenterTek's TeleZSpin app**

    a. Download and install the TeleZSpin app. Contact PresenterTek support for further instructions

    b. Power up TeleSpinIP unit.  An ethernet cable must be connected to PC and the TeleSpinIP, either direct connect or via an ethernet switch

    c. Launch app

TeleZSpin App Screenshot
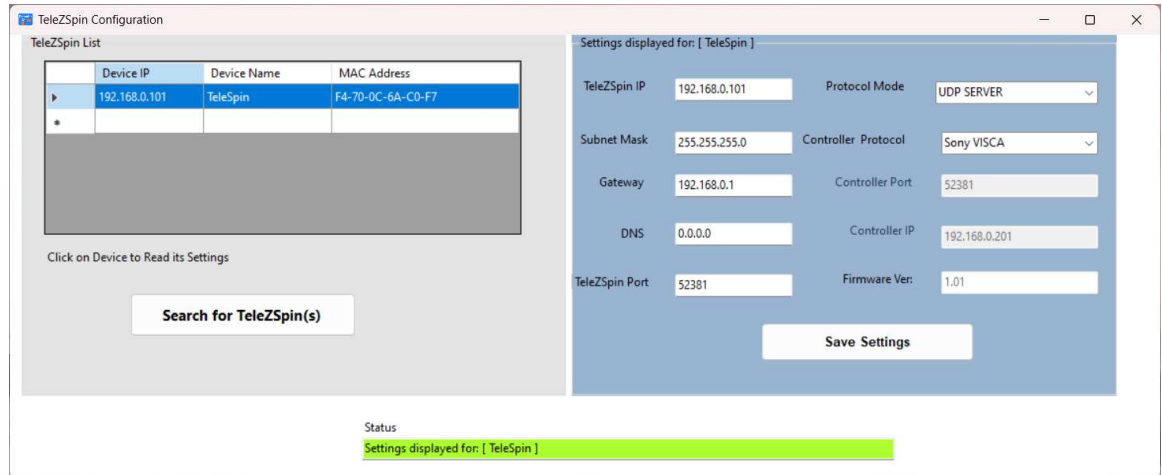


    d. Click on "Search for TeleZSpin(s)"

    e. Select desired TeleZSpin to configure   from list

    f. Input desired changes on right hand side.

    g. When finished, click "Save Settings".  The module will automatically reboot. This can take up to 5 seconds.

    h. Cycle the power switch on the TeleSpinIP.

    i. To verify correct settings, after TeleSpinIP 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 TeleSpinIP, 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 TeleSpinIP 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 TeleSpinIP. 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 | | |
| | TeleZSpin 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** | | |
| | TeleZSpin IP | Must match controller setting for the TeleSpinIP. 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 TeleSpinIP . An ethernet cable must be connected to PC and the TeleSpinIP, 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 on the TeleZSpin unit.**

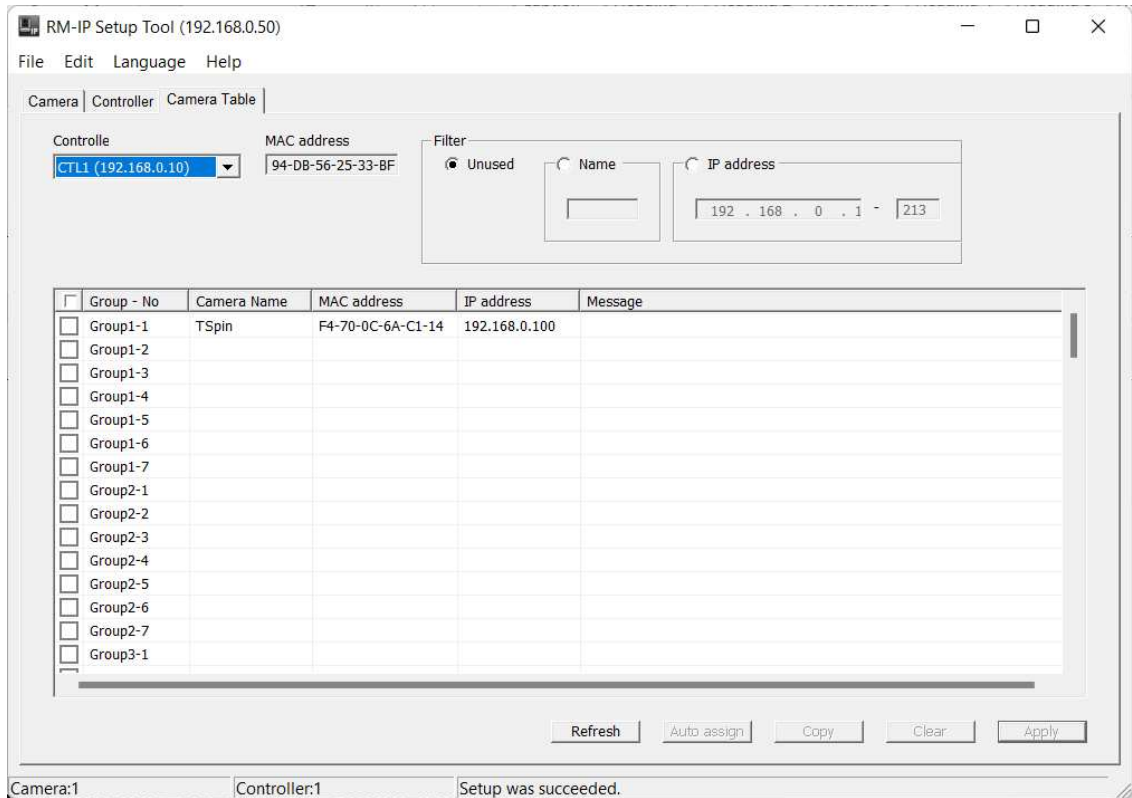| Web Server | | |
|---|---|---|
| Ethernet Config Tab | | |
| | IP Addr: | N/A |
| | Subnet Mask: | Configure for LAN |
| | Gateway | Configure for LAN |
| | DNS Server IP: | N/A |
| Protocol Config Tab | | |
| | TeleZSpin Port Number | 52380 |
| | PTZ Port Controller Number | N/A |
| | Protocol Mode | UDP Server |
| | PTZ Controller IP: | N/A |
| **TeleZSpinConfig App** | | |
| | 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 TeleZSpin (TSpin) to the Camera Table, ensure the TeleZSpin 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 TeleZSpin is changed back to 52381, **the power must be cycled on the TeleSpinIP unit** 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

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 TeleZSpin |
| | 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

TeleSpinIP 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 | | |
| | TeleZSpin Port Number | 1259 |
| | PTZ Port Controller Number | N/A |
| | Protocol Mode | UDP Server |
| | PTZ Controller IP: | N/A |
| **TeleZSpinConfig App** | | |
| | TeleZSpin IP | Must match controller's setting for the TeleZSpin |
| | 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 PTZOptics controller app uses TCP Server at port 5678.

TeleSpinIP must be set to VISCA protocol using the TeleZSpinConfig 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 | | |
| | TeleZSpin Port Number | 5678 |

| | | |
|---|---|---|
| | PTZ Port Controller Number | N/A |
| | Protocol Mode | TCP Server |
| | PTZ Controller IP: | N/A |
| **TeleZSpinConfig App** | | |
| | 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

| 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 | | |
| | TeleZSpin Port Number | 52381 |
| | PTZ Port Controller Number | N/A |
| | Protocol Mode | UDP Server |
| | PTZ Controller IP: | N/A |
| **TeleZSpinConfig App** | | |
| | 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 |

## Operation via PTZ Camera Controller

The TeleSpinIP must have a  unique IP address will also be assigned to a unique Camera number.  Use the PanLeft/PanRight on the Joy Stick for Spin movement. Preset positions, Pan speeds are also configurable using the PTZ Controller.

Note: the PTZ Camera Controller will not operate the TeleSpinIP until the spin axis had been completely initialized after a power cycle.

## Demo Mode

If the PTZ Camera Controller  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 Bootloader app by double clicking Setup.exe or msi.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 TeleZSpin's IP address and Subnet mask
3. Connect an ethernet cable from the PC to the TeleZSpin.

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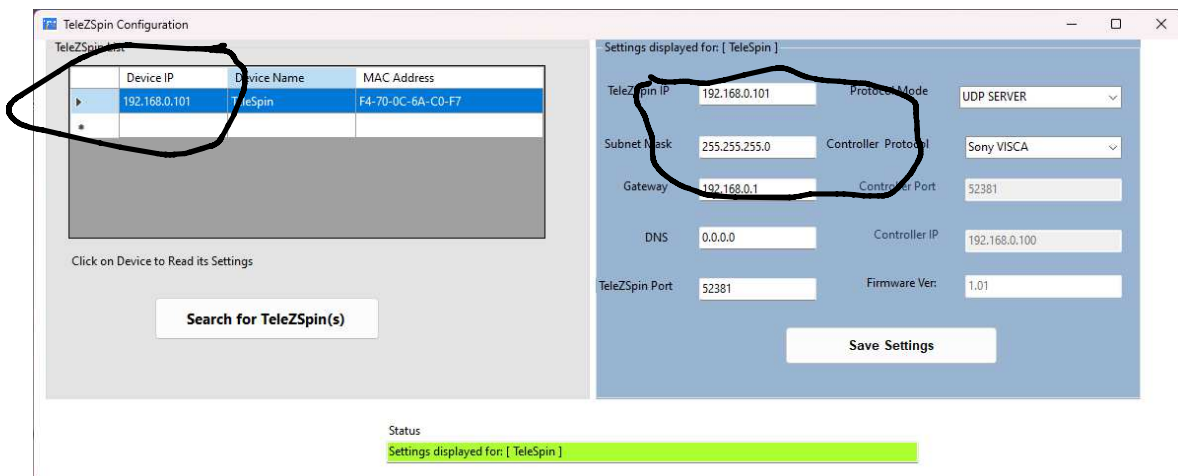
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4. Ensure that the PC is on the same local network as the TeleZSpin. With Windows 10 Settings -> Network & internet->LAN-Properties

Using the TeleZSpin Configuration app.
TeleSpinIP
IP = 192.168.0.101
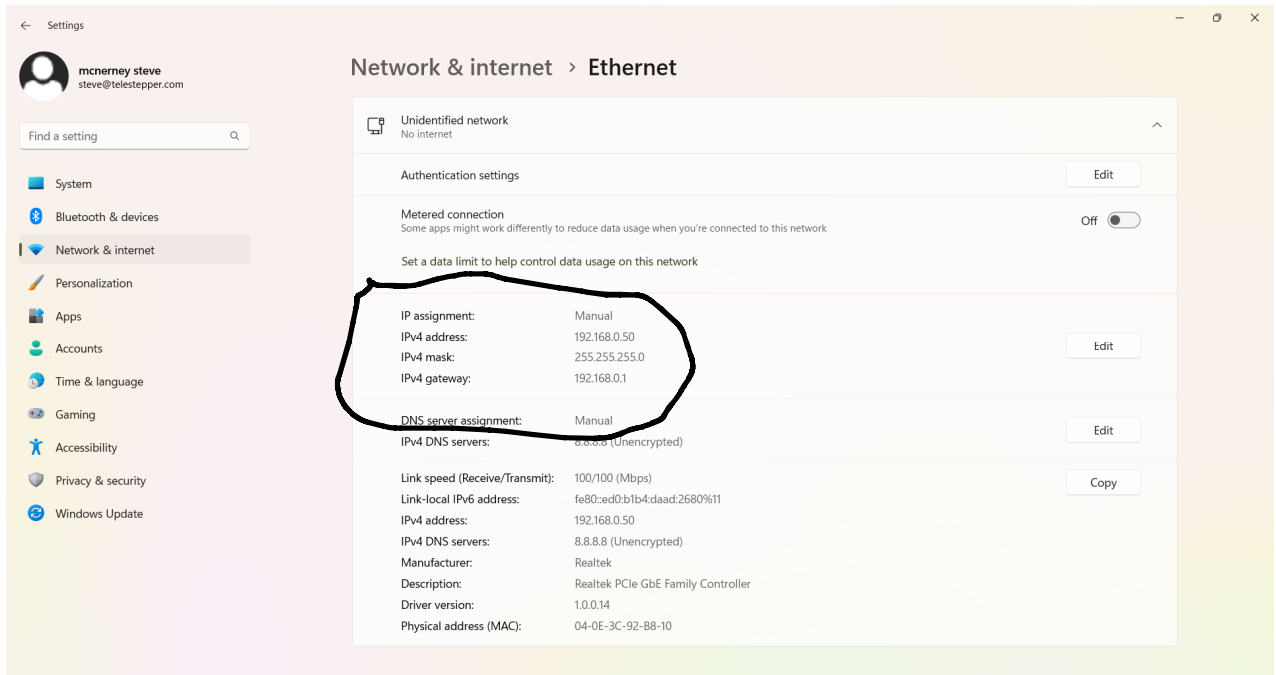Subnet mask = 255.255.255.0

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 TeleSpinIP . The IP assignment must be set to Manual ( or Static IP). Not DHCP

5. Power up TeleZSpin and wait until initialized. That is, the spin axis is idle
6. Launch Bootloader App
7. Ensure that Product Select is set correctly to TeleSpinIP
8. Click "Get Firmware Version" If a Firmware Version is displayed. The PC is correctly connected to the TeleSpinIP
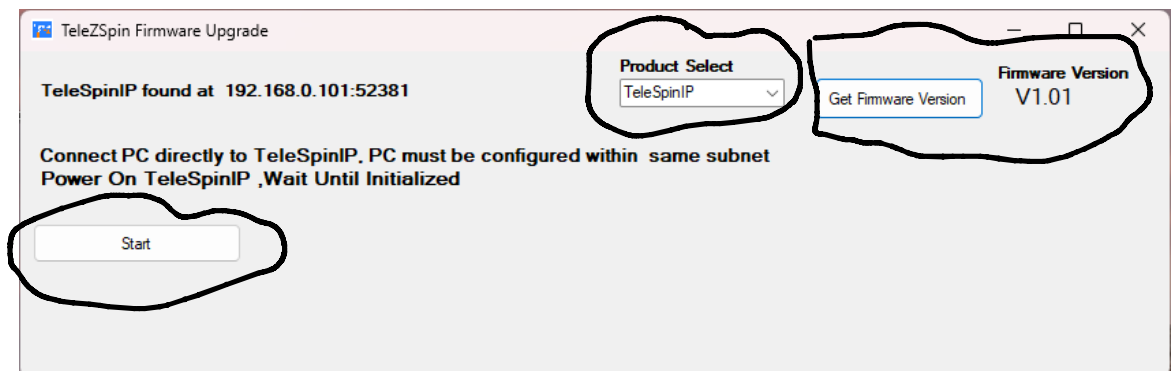
9. Click "Start" the following should appear
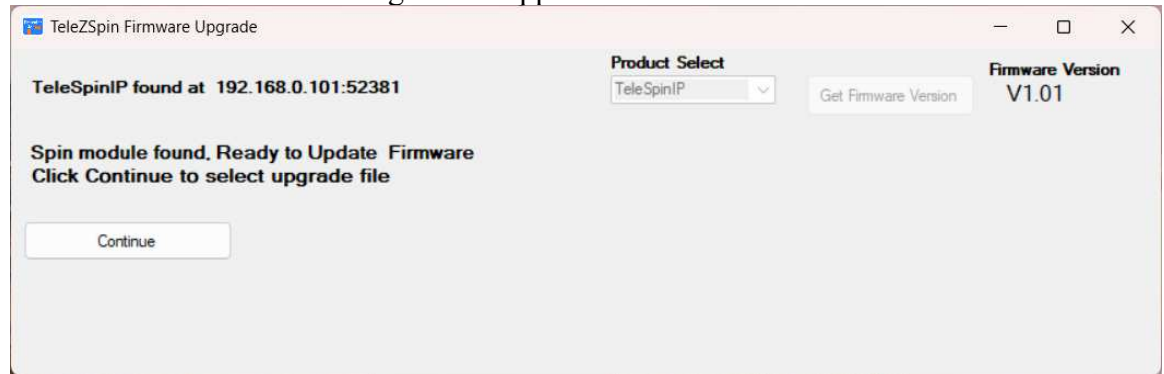


10. Click "Continue" and select correct update file, upgrade file will be supplied by PresenterTek. The firmware upgrade file name will be in the format "TeleSpin_UpdateVXXX.hex"
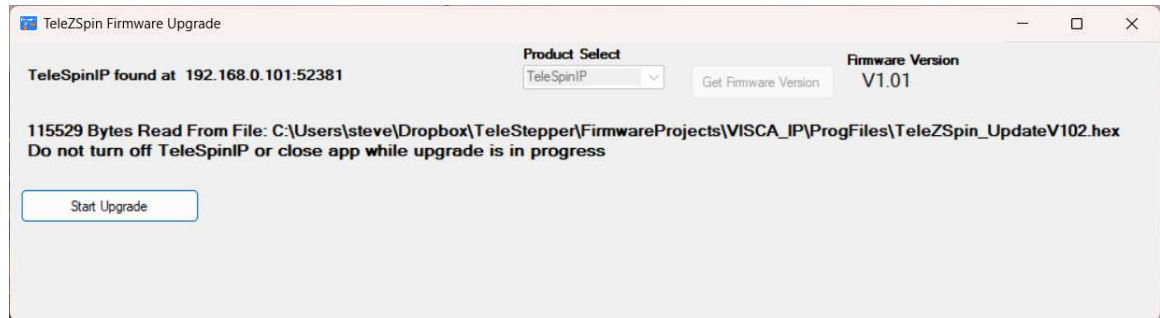


11. Click "Start Upgrade"
12. Wait until Firmware upgrade is complete

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**Note:**

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

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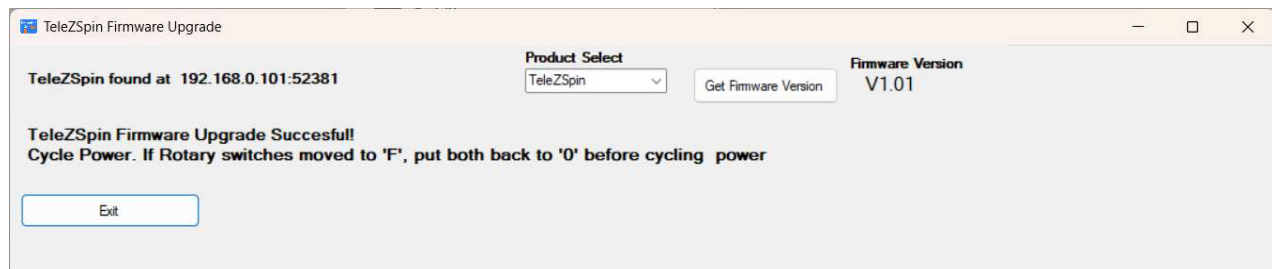


14. Click "Exit", Cycle the power on the TeleSpinIP. To verify, relaunch the BootLoader app and check that the firmware version is correct