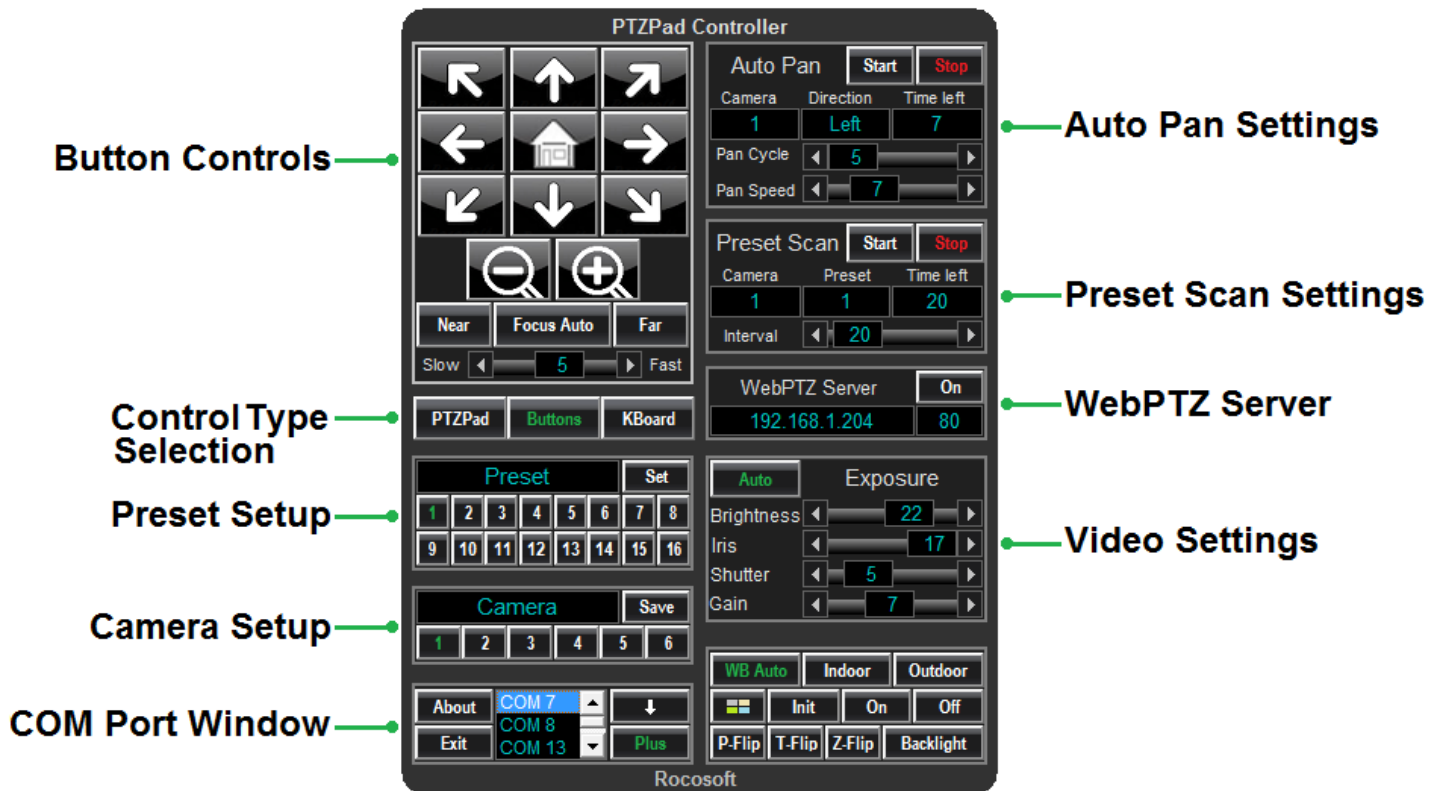# PTZPad™ Controller User Manual

Getting Started

Before starting PTZPad™, connect your PTZ camera to your computer using a VISCA Control cable. Please make sure your PTZ camera is turned ON. Please make sure your PTZ camera is turned ON.

1) Connect the VISCA control cable to the **Serial/USB COM port** of your computer and to the **VISCA In** jack of your camera.
2) Check which COM port number is being used by your serial device in the Ports section of the **Device Manager*** on your computer (example: COM2)**.

*To access the Device Manager, open the System folder from the Control Panel, and click on Device Manager. Expand the Ports section to view active COM ports and double check that there are no yellow exclamation marks. If there is a yellow exclamation mark next to any of your COM ports, you will need to fix this issue. If there are no yellow exclamation marks, these ports are active and available to control cameras.

** If you are connecting only one camera, or multiple cameras in a daisy chain mode, you will need to know only one COM port number. If you have multiple cameras connected to multiple ports, you will need to know the COM port numbers being used in order to switch between cameras in the application.

Controlling your PTZ camera

Once your PTZ camera is connected to your computer, open PTZPad™. All COM ports available to control PTZ cameras will be listed in COM port window. Select the COM port your camera is connected to from the list of available COM ports and choose the desired method of camera control from the Control Type Selection buttons: **Buttons, PTZPad,** or **KBoard.** The default Control Type is **Buttons**.

Button Control

1) Using your computer mouse, click on the directional buttons to move your selected camera in the corresponding direction.
2) Click on the plus button to zoom in and the minus button to zoom out.
3) Click on the arrow buttons or on the *Focus Auto* button to adjust the camera's focus
4) Adjust the pan, tilt, zoom, and focus speeds for a selected camera with the *Camera Speed Control* slider bar.

PTZPad Control

This mode allows you to control your PTZ camera using any laptop touchpad, trackball mouse, or simply using the movement of any regular mouse. By simply pressing a designated computer keyboard button, your mouse, laptop touchpad, or trackball mouse becomes a PTZ joystick controller. This feature is ideal for controlling your cameras from a laptop computer in a video conferencing environment, eliminating the need for any additional equipment such as bulky joystick controllers.

1) Activate this feature by clicking on the **PTZPad** button in the application.
2) On you computer keyboard, press and hold the "ALT" button to pan/tilt and the "Z" button to zoom with your mouse, laptop touch pad, or trackball mouse. What ever direction you move your mouse, your finger on a touchpad, or the ball in a trackball mouse, is the direction your camera will mover. Release the keyboard button to stop the movement.

Keyboard Hotkeys

Control pan/tilt/zoom/focus functions, change speed settings, call on presets, and switch cameras using pre-assigned shortcuts or "hotkeys" on any standard keyboard. This is a diagram of the PTZJoy™ pre-assigned keyboard hotkeys:

Connecting Multiple Cameras

Home Run Connection

In a home run connection, multiple cameras are connected to different USB/Serial ports on one computer and each camera is controlled through a separate COM port.

How to connect:

1) Connect your cameras to the USB/Serial ports of your computer using USB/Serial VISCA cables *(described in detail in the **Getting Started** section).*

2) Check which COM port numbers are being used by your cameras in the **Ports** section of the **Device Manager**.
3) Switch between cameras in the application by selecting the COM port number of the camera you wish to control from the list of active COM ports.

Note: In Home Run Mode you can connect as many cameras as there are USB/Serial ports.

Daisy-Chain Connection

In a daisy chain connection, the first camera is connected to a USB port/Serial port of your computer and additional cameras are "daisy-chained" to the first camera using daisy chain cables. In this configuration, multiple cameras can be controlled through one COM port.

How to connect:

1) Connect your first camera to the USB/Serial port of your computer using a USB/Serial VISCA cable
2) Connect additional cameras to the first camera with daisy chain cables.
3) Switch between cameras in the application by selecting the camera from the list camera selection number buttons in the application.

Note: You can Daisy Chain up to 7 Sony protocol video conferencing PTZ cameras per COM port if the camera supports it. Additional Daisy Chain connections can be added to additional available USB/Serial ports.

Naming cameras in Daisy Chain Mode

Easily distinguish between multiple cameras by naming your connected cameras.

1) In the Camera Setup section, select the number of the camera you wish to name.
2) Type in the desired name for the camera in the camera name window and click **Save.** Repeat for all cameras connected in the daisy chain.
3) Once all cameras are named, you can switch between cameras by selecting the camera from the list of camera number buttons and see which camera is currently chosen by name.
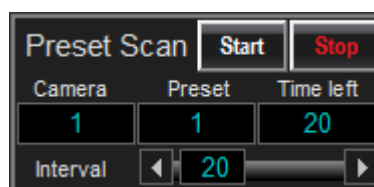
Working with Presets

1) Select the camera you wish to configure.
2) Click on the Preset Number that you wish to set up for the selected camera.
3) Move your camera in the desired position, type the desired name for the preset in the **Preset Name Window,** and click on the **Set Button**.
4) Repeat for up to 16 preset positions*. Once each preset is configured, call on a specific preset by simply clicking on the desired preset number.

*Depends on camera specifications. You can configure presets for as many cameras as you have connected either in home run or daisy chain mode.
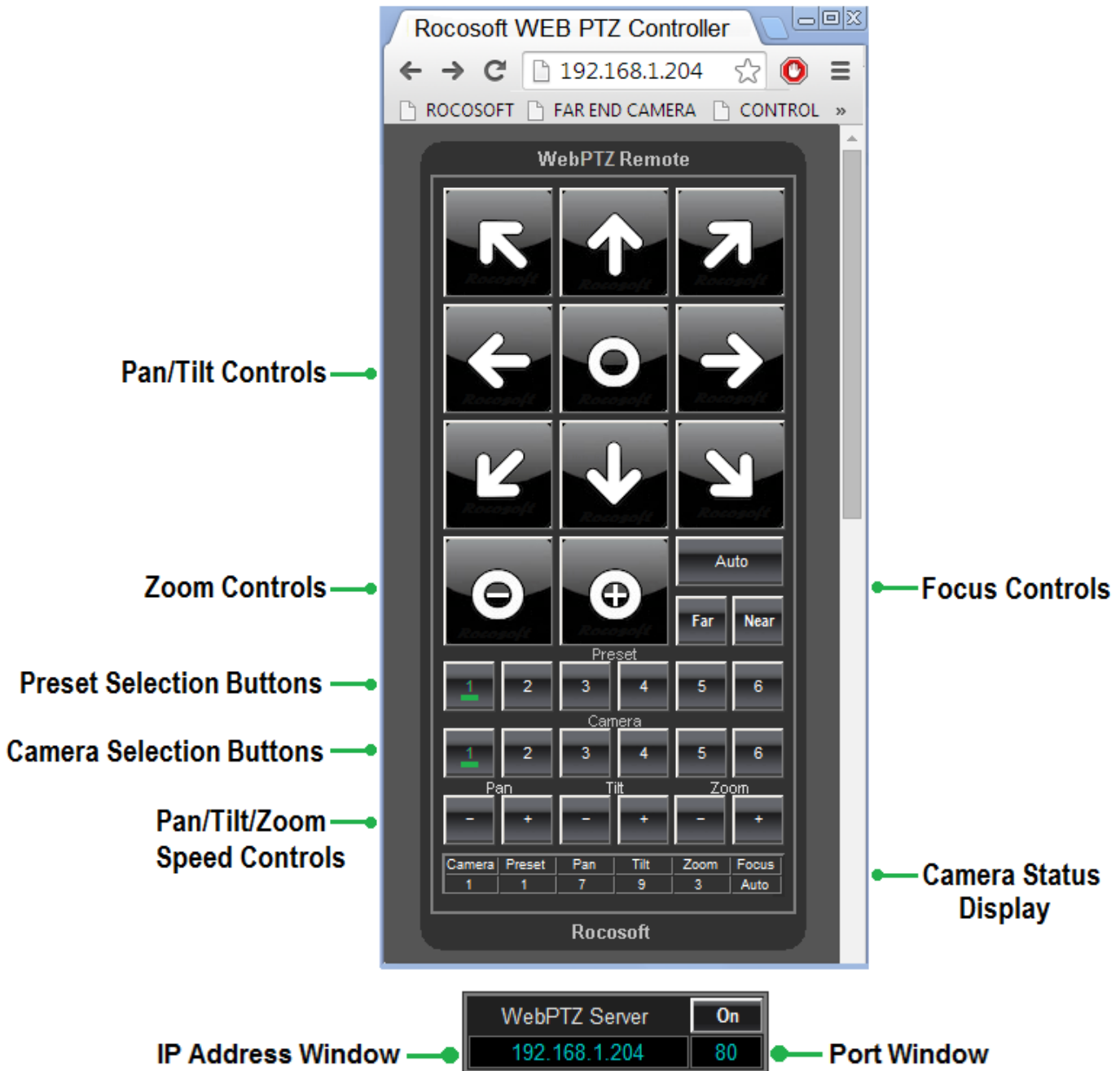
Preset Scan

The Preset Scan feature allows you to command a selected camera to scan between presets at a specified time interval. Presets must already be configured.

1) Type in desired Preset Scan starting point and adjust desired time interval using the slider bar.
2) To begin Preset Scan, click on the **Start** button. To stop Preset Scan, click on the **Stop** button.

Using the PTZ Web Server

Control your PTZ cameras from any mobile device connected to a Wi-Fi, LAN, or WAN IP Network using our innovative WebPTZ Remote.

1) The default port for the WebPTZ Server is 80 and the current IP Address of your web server is shown in the *IP Address Window*. You can add security to the connection by changing the WebPTZ Server port number by typing your custom port number in the *Port Window*. You will see the corresponding IP Address for that port in the *IP Address Window*.
2) Once you have your port selected, click on *Start WebPTZ.*
3) Open the web browser on your mobile device and type in the IP Address shown in **the *IP Address Window*** into the URL Bar on your mobile device.

4) The WebPTZ Remote will appear on your mobile device and you can now control your PTZ cameras. The WebPTZ remote will appear full size in your web-browser – if you are using a computer, you can resize the WebPTZ remote to a more convenient-to-use size by simply changing the zoom settings in the browser.
5) The Camera Status Display will show relevant information such as which camera is being controlled, which presets position is active, the pan, tilt, and zoom speed, and focus mode.

Note: On exit, the program will save the last status of WebPTZ server. If you leave the WebPTZ Server active, it will still be active next time you load the program.

** You can also allow for control of your cameras using our WebPTZ Remote from a device outside of your local area network by configuring your router and opening ports to accept outside signals. Once your router is configured, you can open a web browser on any device and type in the IP Address for the WebPTZ Server and control your camera.

Additional Features

Minimize to Taskbar: Minimizes program to taskbar for quick access
Start with Windows: Configure program to automatically start with Windows Startup.

1) Click on the Windows Logo Button to activate this feature
2) Restart the computer.
3) The program should start with Windows automatically.
4) If it does not start automatically, right click on the PTZJoy program loader file and click "Run as Administrator". Click on the Windows Logo Button in the program again, close the program, and restart your computer.

Pan, Tilt, Zoom Flip: The *P-Flip*, *T-Flip* and *Z-Flip* buttons inverse the Pan, Tilt, and Zoom directions of a selected camera.
Camera ON/OFF: Turns selected camera ON or OFF
Camera Initiation: Allows you to add or remove cameras in a Daisy Chain connection without restarting all cameras.

Auto-Pan

1) Move your selected camera to the desired position.
2) Adjust the length of the pan cycle and pan speed using the slider bars.
3) Select *Start* to begin pan cycle and *Stop* to stop pan cycle.

Video Settings

Exposure Control Settings: Auto, Bright, Iris, Shutter, and Gain. Manually adjust settings with the slider bars.
White Balance Settings: Auto Mode, Indoor Mode, and Outdoor Mode
Backlight: Backlight Compensation