Rocosoft PTZOptics UVC Camera Controller

User Manual
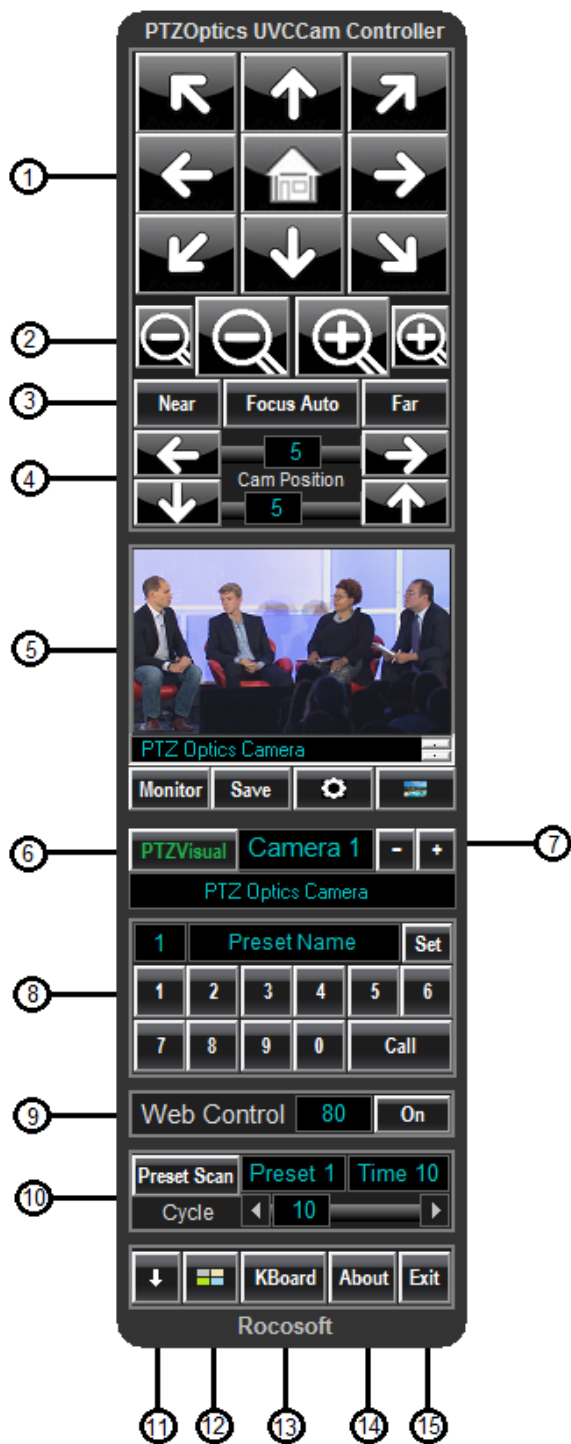
UVC Camera Control Software for:
- PTZOptics 12x-USB
- PTZOptics 20x Cameras

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GETTING STARTED

Before starting the PTZOptics UVC Controller, connect your UVC PTZ camera to your computer with the USB cable that came with your camera. Please make sure your camera is turned ON.

CONTROLLING YOUR PTZ CAMERA

Once the UVC PTZ camera is connected to your computer, open the PTZOptics UVC Controller. You should see your camera listed in the drop down menu in the application.

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 **Near, Far,** or **Focus Auto** buttons to adjust the camera's focus
4) Use the camera position sliders for quick controls of the pan, tilt, zoom functions.

KEYBOARD HOTKEYS

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

CONNECTING MULTIPLE CAMERAS

You can connect and control multiple supported UVC PTZ cameras from one PC. Simply connect additional UVC PTZ cameras to available USB ports on your PC. Switch between connected UVC PTZ cameras by selecting the camera you wish to control using the camera selection buttons in the application.

WORKING WITH PRESETS

SETTING AND RECALLING PRESETS

1) In the Preset Configuration section, use the number buttons to input the preset number you wish to set up for the selected camera.
2) Move your camera in the desired position, type the desired name for the preset in the preset name window, and click Set.
3) Repeat for up to 256 presets.
4) Recall on a preset by inputting the desired preset number using the number buttons and clicking Call. The current preset number and name will appear on the screen.
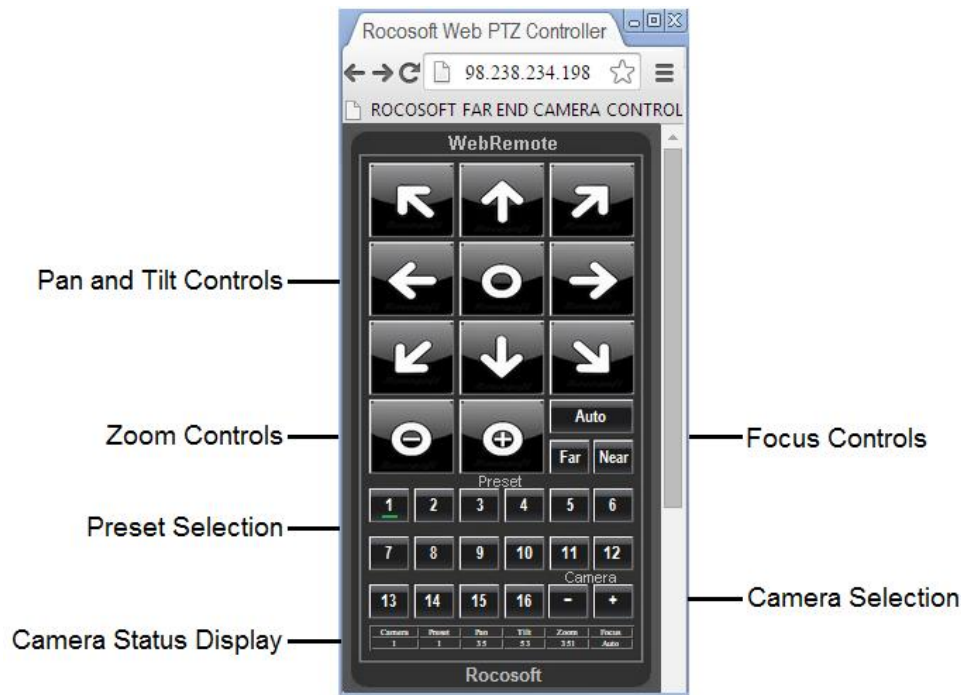
PRESET SCAN

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) Click **Preset Scan** to start the scan cycle. Click it again to stop it.

2) Adjust the time interval between the presets with the cycle slider.

USING THE PTZ WEB REMOTE

Control PTZ cameras connected to the Main Controller from the web browser of any mobile device over any LAN, Wi-Fi, and WAN IP network. Use it as a far-end controller to switch between cameras, control pan, tilt, zoom, and focus, change the speed settings of camera movements, and call on presets*.

1) Turn ON Web Control access on the Main Controller.

2) The default port for Web Control is 80 and the current IP Address and access information of the Main Controller can be found by clicking on the **About** button. You can add security to the connection by changing the Web Control port number on the Main Controller.

3) Open the web browser on your mobile device and type in the IP Address of the Main Controller (see **About**) into the URL Bar on your mobile device.

4) The WebRemote will appear in the web browser of your mobile device and you can now control the PTZ cameras connected to the Main Controller.* The WebRemote will appear full size in your web-browser – if you are using a computer, you can resize the WebRemote 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.

*Control cameras using the WebRemote 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 of the Main Controller and control your camera.

USING THE PTZVISUAL PAD CONTROLLER

A customizable graphic user interface for controlling PTZ cameras connected to the computer with the Main Controller and is designed to simplify the logistics of preset switching. Set seat positions, camera positions, add pictures to represent people, add custom room layouts, set live video as the room layout, and designate presets to specific locations in the room.

LOCAL CONTROL

Open the PTZVisualPad on the same computer as the Main Controller and use it to control a connected camera with the graphic interface. Use either a static image or set up a live video background to represent the layout background.

1. PTZ Visual Pad
Main Interface

2. Profile Pictures
Add pictures to represent participants

3. Profile Title Box
Name your profile pictures

4. Clickable Presets
Drag and drop clickable presets

5. PTZ Controls
Convenient Pan, Tilt, Zoom controls

6. Video ON
Turns video background mode ON

7. Camera Stream Settings
Changes standard for the video stream

8. Camera Settings
Extra controls for the camera

9. Save
Saves image for use as background

10. Background Video Camera Selection
Select which camera to use for video background layout mode

11. Reset
Resets everything to default

12. Pictures Button
Toggle on and off use of profile pictures

13. Names Button
Toggle on and off use of profile picture title boxes

14. Lines Button
Show/hide lines that connect to each preset button

15. Exit
Closes the PTZ Visual Pad application

16. Preset Window
Shows the current preset

SETTING BACKGROUND WITH A STATIC IMAGE

1) Open the PTZVisualPad user interface by clicking on the ***PTZVisual*** button on the Main Controller.

2) Use the Main Controller to move the connected camera to a position that shows the entire control area layout on the Video Monitor and click Save. Save the file in a known location.

3) From the PTZVisualPad interface, double click anywhere on the screen to select a background image.

SETTING BACKGROUND WITH LIVE VIDEO

1) Connect a second camera to your computer to get a second video input for the video background.

2) From the PTZVisualPad interface, click **Video ON.**

3) Adjust the camera being used for the video background to show the entire control area layout.

USING THE CHARACTER GENERATOR FEATURE

Each member of a meeting can be allocated to a "seat" and represented with a character graphic and name.

SETTING UP A CHARACTER GRAPHIC

1) From the PTZVisualPad interface, click on the **Pictures** button.

2) The character avatars will appear on the interface and can be moved to any location on the screen by dragging it.

3) To replace avatars with a custom image, double click on the avatar and select the desired image of the participant from your computer.

SETTING UP NAMES FOR PARTICIPANTS

1) From the PTZVisualPad interface, click on the Names button.

2) The Name tags will appear under each character graphic or avatar.

3) Type in the desired name for each participant.

4) If using a video background, you can hide the character graphic and leave only the names for participants by unselecting the **Pictures** button.
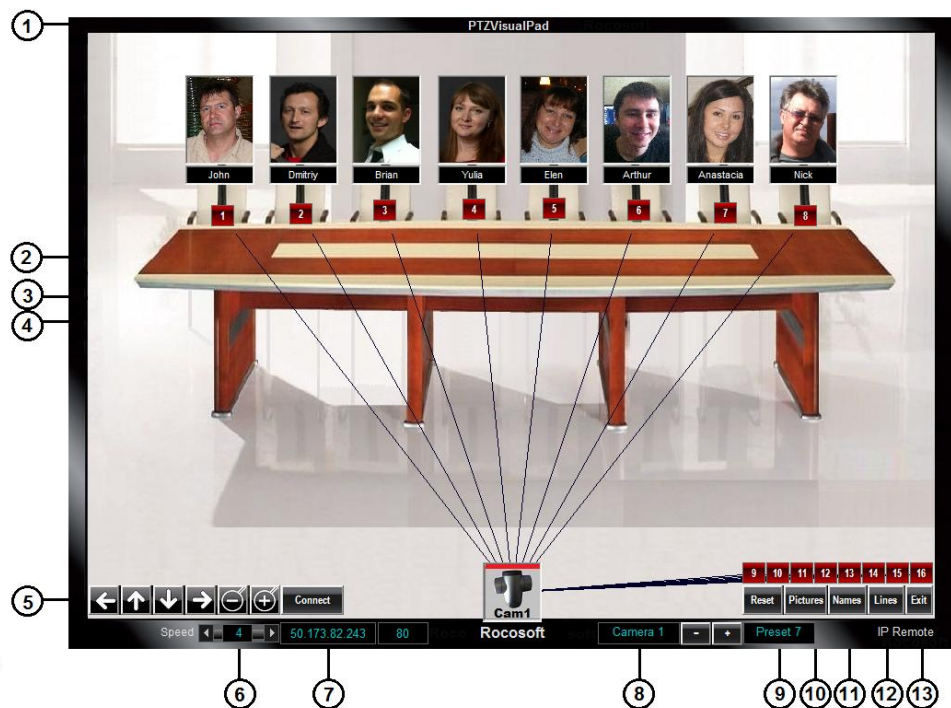
SETTING PRESET LOCATIONS

1) Set up your camera position on the PTZVisualPad interface as it actually is in the control area. The image of the camera can be changed if the camera is looking in a different direction as the default. Double click on it to change the image.

2) Visually assign presets buttons to desired locations by dragging them on the PTZVisualPad interface. Click on the **Lines** button to show the preset button positions relative to the camera location.

3) Using the Main Controller, set presets for the camera that correspond with the presets laid out on the PTZVisualPad interface. (See Working with Presets Section)

4) Once the presets are assigned, recall presets directly from the PTZVisualPad interface by double clicking on the preset buttons.

5) All settings are automatically saved. Click on the Reset button to reset everything to default.

FAR-END CONTROL OVER IP

Open the PTZVisualPad IP Remote on a far-end computer and control a camera connected to the Main Controller over an IP network. The camera presets and room/area layout must already be configured locally.

1. **PTZ Visual Pad**
   Main Interface

2. **Profile Pictures**
   Add pictures to represent participants

3. **Profile Title Box**
   Name your profile pictures

4. **Clickable Presets**
   Drag and drop clickable presets

5. **PTZ Controls**
   Convenient Pan, Tilt, Zoom controls

6. **Speed Slider**
   Increase/decrease speed of PTZ movements

7. **IP Information**
   Displays IP Address and port number

8. **Camera Selection**
   Switch between cameras to control

9. **Preset Window**
   Shows the current preset

10. **Pictures Button**
    Toggle on and off use of profile pictures

11. **Names Button**
    Toggle on and off use of profile picture title boxes

12. **Lines Button**
    Show/hide lines that connect to each preset button

13. **Exit**
    Closes the PTZ Visual Pad application

CONNECTING TO THE MAIN CONTROLLER OVER IP

1) Turn ON IP Control access on the Main Controller.

2) The default port for IP Control is 80 and the current IP Address and access information of the Main Controller can be found by clicking on the **About** on button. You can add security to the connection by changing the IP Control port number on the Main Controller and on the far-end PTZVisualPad.

3) Open the PTZVisualPad IP Remote on a far-end computer, type in the IP Address of the Main Controller (see **About**) and click ***Connect.*** The Connect button will light up green and you will now be able to control the PTZ cameras connected to the Main Controller*. If it does not show a green Connect button, check your IP settings.

* Control cameras using the PTZVisualPad IP 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 the IP Remote on a far-end computer, type in the IP Address of the Main Controller and control connected cameras.

CONTROLLING THE CAMERA

1) In order to use the PTZVisualPad far-end IP Remote, the camera presets and room/area layout and background image must already be configured on the Main Controller and local PTZVisualPad remote. Use Alt+PrintScreen to take a snapshot of the configured local PTZVisualPad and send the image to the far-end computer and save in a known location.

2) On the far-end PTZVisualPad IP Remote, set the background image by double clicking on the background and selecting the image of the configured setup.

3) Drag and drop corresponding presets on the far-end controller to overlap the configured presets in the image.

4) Recall presets by clicking on the preset buttons.

ADDITIONAL CONTROL SETTINGS

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 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.