

Partner: WolfVision
Model: vCam, VZ-3/3s/3neo/8light⁴/8plus⁴/8neo/8neo+/9-plus³/9.4F/9.4L/C6/C12³/C32³/C3D, EYE-12/14
Device Type: Document Camera



GENERAL INFORMATION

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| SIMPLWINDOWS NAME: | WolfVision WolfProt TCP-IP v1.3 |
| CATEGORY: | Document Camera |
| VERSION: | 1.3 |
| SUMMARY: | This module provides TCP-IP control of the WolfVision Document Cameras. |
| GENERAL NOTES: | This module provides TCP-IP control of the following WolfVision devices: vCam, VZ-3, VZ-3s, VZ-3neo, VZ-8light ⁴ , VZ-8plus ⁴ , VZ-8neo, VZ-8neo+, VZ-9plus (serial number #1008068 and higher), VZ-9plus ³ , VZ-9.4F, VZ-9.4L, VZ-C6, VZ-C12 ² (serial number #1009412 and higher), VZ-C12 ³ , VZ-C32 (serial number #1011797 and higher), VZ-C32 ³ , VZ-C3D, EYE-12 and EYE-14. Please also note that not all commands are supported by all models. |
| CRESTRON HARDWARE REQUIRED: | 2 or 3-Series Processor with Ethernet |
| SETUP OF CRESTRON HARDWARE: | TCP/IP Port Number: 50915 |
| VENDOR FIRMWARE: | N/A |
| VENDOR SETUP: | None |
| CABLE DIAGRAM: | Ethernet |

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CONTROL:

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| Power_<On/Off/Toggle> | D | Pulse to turn the document camera on and off. |
| Zoom_<Wide/Tele> | D | Press and hold to adjust the camera's zoom. Once zoomed all the way in, releasing and pressing the Zoom_Tele again will cause the camera to zoom in farther using the digital zoom. |
| Focus_<Near/Far> | D | Press and hold to adjust the camera's focus. |
| Auto_Focus_<On/Off/Toggle> | D | Pulse to turn the auto focus on and off. |
| Iris_<Open/Close> | D | Pulse to adjust the camera's iris. |
| Auto_Iris_<on/Off/Toggle> | D | Pulse to turn the auto iris on and off. |
| Iris_Priority_<Auto/Manual/Toggle> | D | Pulse to set the iris priority to auto or manual. |
| Image_Rotation_Off | D | Pulse to turn the image rotation off. |
| Image_Rotation_Cycle | D | Pulse to cycle through the image rotation settings, -90, 180, +90 and off. |
| Source_Select_* | D | Pulse to select the source for the visualizer. |
| Set_PIP_<On/Off/Toggle> | D | Pulse to turn the PIP on and off. |
| Take_Snapshot | D | Pulse to store a picture to memory or USB. |
| Start_Recording | D | Pulse to start recording. |
| Stop_Recording | D | Pulse to stop recording. |
| <Pause/Resume>_Recording | D | Pulse to pause or resume the current recording. |
| Volume_<Up/Down> | D | Pulse to change the audio output volume. |
| Set_Volume_Level | A | Set output volume. Valid range of 0d – 100d in increments of 10d. |
| Mute_<On/Off/Toggle> | D | Pulse to mute or unmute the audio output. |
| Streaming_Mode_<Auto/Off> | D | Pulse to set the streaming more. |
| Menu_* | D | Pulse to access and navigate setup menus. |
| Video_<Pause/Resume> | D | Pulse to pause/resume video playback. |
| Vergence_<+/-> | D | Pulse to Start/Stop vergence Plus/Minus. |

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| _2D_On | D | Pulse to turn 2D mode on and 3D mode off. |
| _3D_On | D | Pulse to turn 3D mode on and 2D mode off. |
| _2D/3D_Toggle | D | Pulse to toggle between 2D/3D modes. |
| Light_* | D | Pulse to turn the light, lightbox and slidebox on and off. |
| Lampchange | D | Pulse to allow a lamp change. |
| Reset_Lamp_<1/2>_Hours | D | Pulse to reset the lamp hours for the desired lamp. |
| Lamp_Voltage_* | D | Pulse to set the lamp voltage to the desired light level. |
| Recall_Preset_* | D | Pulse to recall a camera preset. Presets 1, 2, and 3 can be set using the Store_Preset_<1/2/3> inputs. |
| Store_Preset_<1/2/3> | D | Pulse to store the current camera settings in the desired preset. |
| Freeze_<On/Off/Toggle> | D | Pulse to turn the freeze function on and off. |
| Recall_Stored_Image_<1...9> | D | Pulse to recall the desired stored image. |
| Memory_Off | D | Pulse to turn the recalled image off. |
| Show_All_<On/Off/Toggle> | D | Pulse to turn the show all images on and off. |
| Store_Image_<1...9> | D | Pulse to store the current image in the desired memory location. |
| Erase_All_Images | D | Pulse to erase all stored images. |
| Capture_Area_Shift_<On/Off/Toggle> | D | Pulse to turn the capture area shift on and off. |
| Poll_Enable | D | Set high to enable polling for status. |
| Connect | D | Digital signal that can be used to control the TCP/IP Connection. |
| {{TCP/IP_Client_>>_connect-f}} | D | Digital signal to be routed from the connect-f output of the TCP/IP Client. |
| {{TCP/IP_Client_>>_status}} | A | Analog signal to be routed from the status output of the TCP/IP Client. |
| {{TCP/IP_Client_>>_RX\$}} | S | Serial signal to be routed from the RX\$ output of the TCP/IP Client. |

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FEEDBACK:

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| Power_Is_<On/Off> | D | High to indicate the current power status. |
| Zoom_Position_Gauge | A | Analog signal indicating the current zoom position. To be displayed using a gauge on a touch panel. |
| Digital_Zoom_2x_Is_On | D | High to indicate digital zoom 2x is on. |
| Digital_Zoom_4x_Is_On | D | High to indicate digital zoom 4x is on. |
| Digital_Zoom_Is_Off | D | High to indicate digital zoom is off. |
| Focus_Position_Gauge | A | Analog signal indicating the current focus position. To be displayed using a gauge on a touch panel. |
| Auto_Focus_Is_<On/Off> | D | High to indicate the current auto focus state. |
| Iris_Position_Gauge | A | Analog signal indicating the current iris position. To be displayed using a gauge on a touch panel. |
| Auto_Iris_Is_<On/Off> | D | High to indicate the current auto iris site. |
| Iris_Priority_Is_<Auto/Manual> | D | High to indicate the current iris priority state. |
| Source_*_Selected | D | High to indicate current source selected. |
| PIP_<On/Off> | D | High to indicate the current PIP state. |
| Recording | D | High to indicate device is recording. |
| Stopped | D | High to indicate device has stopped recording. |
| Paused | D | High to indicate recording is paused. |
| Set_Volume_Level | A | Analog signal indicating the current volume level. To be displayed using a gauge on a touch panel. |
| Mute_Is_<On/Off> | D | High to indicate the current mute state. |
| Streaming_Mode_Is_<Auto/Off> | D | High to indicate the current streaming mode state. |
| Vergence_Position_Gauge | A | Analog signal indicating the current vergence position. To be displayed using a gauge on a touch panel. |
| _2D_Is_On | D | High to indicate current 2D state. |
| _3D_Is_On | D | High to indicate current 3D state. |

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| Freeze_Is_<On/Off> | D | High to indicate current freeze state. |
| Show_All_Is_<On/Off> | D | High to indicate the current show all state. |
| Capture_Area_Shift_<On/Off> | D | High to indicate the current capture area shift state. |
| Connect-F | D | Digital signal indicating the connection state of the TCP/IP Client. |
| {{Connect_>>_TCP/IP_Client}} | D | Digital signal to be routed to the Connect input on the TCP/IP Client. |
| {{TX\$_>>_TCP/IP_Client}} | S | Serial signal to be routed to the TX\$ input on the TCP/IP Client. |

TESTING:

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| OPS USED FOR TESTING: | 1.501.2867.30341 |
| SIMPL WINDOWS USED FOR TESTING: | 4.07.03 |
| DEVICE DB USED FOR TESTING: | 84.00.003.00 |
| CRES DB USED FOR TESTING: | 62.00.002.00 |
| SYMBOL LIBRARY USED FOR TESTING: | 1031 |
| SAMPLE PROGRAM: | WolfVision WolfProt TCP-IP v1.3 Demo |
| REVISION HISTORY: | <p>v1.0 – Initial Release</p> <p>v1.2 – Updated February 20, 2017</p> <ol style="list-style-type: none"> 1) Polling: added error handling for WolfProt communication. 2) Polling: Increased delay between two successive commands from 100ms to 200ms. 3) Polling: Fixed error in Timeout detection. 4) Polling: Reduced polling interval from 15s to 5 s (complete polling cycle requires approx. 3.5 s). <p>v1.3 – Updated June 12, 2017</p> <ol style="list-style-type: none"> 1) Added Capture Area Shift control. 2) Bug fix: Module reuses network connection instead of opening a new connection for each command to send. This speeds up polling on older WolfVision hardware significantly. 3) Bug fix: Wrong error replies from older WolfVision hardware is now handled correctly by the module. This speeds up polling on these devices significantly. |