

Partner: WolfVision
**Model: Eye-12/14, VZ-3/3s/8light⁴/8plus⁴/
xNEO/9P³/9.4L/9.4F/C3D/C6/C12³/C32³**
Device Type: Document Camera


GENERAL INFORMATION

SIMPLWINDOWS NAME:	WolfVision WolfProt TCP-IP v1.2
CATEGORY:	Camera
VERSION:	1.2
SUMMARY:	This module provides TCP-IP control of the WolfVision Document Cameras.
GENERAL NOTES:	This module provides TCP-IP control of the WolfVision Eye-12 and VZ-9.4F. It should also control the EYE-14, the VZ-3/3s, VZ-8light ⁴ /plus ⁴ , VZ-9plus with serial number #1008068 and higher, VZ-9plus ³ , VZ-9.4L, VZ-xNEO, VZ-C6, C3D, VZ-C12 ² with serial number #1009412, VZ-C32 with serial number #1011797 and higher, VZ-C12 ³ and VZ-32 ³ . Some commands are not be available on 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

CONTROL:

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	Press and hold 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.

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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 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/Dn>	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 mode.
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
_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.

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Freeze_On/Off/Toggle>	D	Pulse to turn the freeze function on and off.
Recall_Stored_Image_<1..9>	D	Pulse to recall the store 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 images.
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.

FEEDBACK:

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 state.

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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 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 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.
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.
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.

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OPS USED FOR TESTING:	1.501.2867.30341
SIMPL WINDOWS USED FOR TESTING:	4.06.01.00
CRES DB USED FOR TESTING:	61.05.007.00
SYMBOL LIBRARY USED FOR TESTING:	1023
SAMPLE PROGRAM:	WolfVision WolfProt TCP-IP v1.2 Demo MC3
REVISION HISTORY:	V. 1.2 – Updated February 20, 2017

BUG-FIXES

POLLING:	Added error handling for WolfProt communication
POLLING:	Increased delay between two successive commands from 100ms to 200ms
POLLING:	Fixed error in Timeout detection
POLLING:	Reduced polling interval from 15s to 5s (complete polling cycle requires approx. 3.5s)