

**SIMPLWINDOWS
NAME:**

Polycom VS4000+FX v415 Camera Control

CATEGORY:

Codec

VERSION:

1.0

SUMMARY:

Provides control of near and far end cameras

GENERAL NOTES:

This module is for control of the Polycom VS4000 and ViewStation FX models only. It will work with Polycom Software version 4.15 FX only. Other releases of Polycom software may cause some functions to stop working.

You can communicate with these systems over RS232 or over TCP/IP. If using TCP/IP, follow the instructions below:

You must open up a Telnet session with the Polycom system. Therefore, you must have a CNXENET+ card installed in your control system to enable communications.

When programming the system in SimplWindows, you should insert a TCP/IP Client object into the ethernet portion of the control system, in the configuration manager. In the program view, use 24D for the PORT parameter field. When it is desired to establish the Telnet session with the Polycom system, assert the CONNECT input on the TCP/IP Client. When the session has been successfully established, the CONNECT-F output will go high. It will then be possible to send commands to the Polycom system. When it is desired to end the Telnet session, de-assert the CONNECT input, and the connection will be dropped.

Commands should only be sent to the TCP/IP Client TX\$ input when the connection is active. Therefore, you should connect the output of this module to the input of a Serial Buffer symbol, which is enabled by the CONNECT-F output of the TCP/IP Client. The output of the Serial Buffer should be connected to the TX\$ input of the TCP/IP Client. See the demo program for an example of this implementation.

Note that before resetting the Crestron system (as happens when you load a new program, power cycle the system, etc), you should end the Telnet session with the Polycom system. If the session is active when the Crestron system resets, the session will not be closed properly, and the Polycom system may need to be rebooted to recover properly.

This module will control both the near and far end cameras, and will provide access to presets 0-9.

**CRESTRON
HARDWARE:**

CNXENET+,
CNMSX,
CNXCOM,
ST-COM

**SETUP OF CRESTRON
HARDWARE:**

For TCP/IP:

Install a TCP/IP Client

Use port 23D

Be sure to set up the IP table to specify the IP address of the Polycom system for the IP ID of the TCP/IP

Client. You must do a cold reboot of the control system after changing these parameters.

For RS232:

Baud Rate - 9600

Parity - None

Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: Release 4.15 FX
VENDOR SETUP: None
CABLE DIAGRAM: For VS4000 - CNSP-123
For ViewStation FX - T.B.D.

CONTROL:

NEAR-END-CAMERA	D	Pulse to select the near end camera for control
FAR-END-CAMERA	D	Pulse to select the far end camera for control
LEFT,RIGHT,UP,DOWN	D	Pan and tilt the selected camera
ZOOM-IN.OUT	D	Zoom the selected camera in and out
PRESET-0-9	D	Trigger any of the 10 available presets
PRESET-SAVE	D	Pulse to activate save mode. After activating save mode, press any of the preset-0-9 buttons to store the preset

FEEDBACK:

NEAR-END-CAMERA-FB	D	Indicates that the near end camera is being controlled
FAR-END-CAMERA-FB	D	Indicates that the far end camera is being controlled
PRESET-0-9-FB	D	Indicates the last preset activated on the module for near or far end cameras
PRESET-SAVE-FB	D	Indicates the the module is in save mode.
To_Device\$	S	Serial signal to be routed to the Polycom system

.UPZ FILE USED FOR TESTING: 5.12.57x.upz, v2.004.cuz

COMPILER USED FOR TESTING: SimplWindows Ver 2.02.11

SAMPLE PROGRAM: Polycom VS4000+FX v415 Demo Program
v40 - Identical to v30

REVISION HISTORY:
v415 - Identical to v40