

Partner: Polycom
Model: Eagle Eye
Device Type: Camera



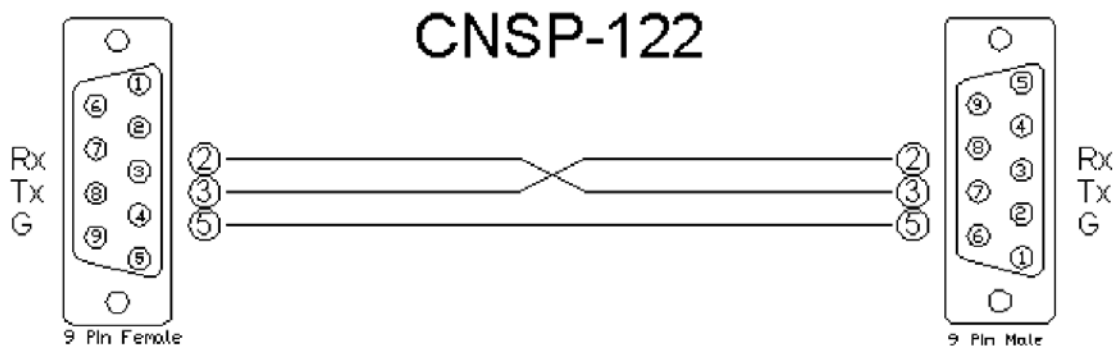
GENERAL INFORMATION

SIMPLWINDOWS NAME:	Polycom Eagle Eye Camera w-Iris v3.2
CATEGORY:	Camera
VERSION:	3.2
SUMMARY:	This module will control the Polycom Eagle Eye Camera. It uses 2-way RS232 communications, and will store up to 25 presets on the Crestron system.
GENERAL NOTES:	<p>There are two ways to control the camera using the digital Pan/Tilt inputs. One way automatically changes speeds the longer you hold the input high. The pan inputs have three speeds. The tilt inputs have two speeds. The speed changes occur at two-second intervals. It is possible to enter the same speed for the speed parameters, thus eliminating the speed changes. The digital inputs for zoom will also automatically change speeds.</p> <p>The second way uses proportional Pan/Tilt speeds. The 'Proportional Pan Speed' and 'Proportional Tilt Speed' will determine speed of camera when zoomed completely out (wide). As camera is zoomed in (tele), camera will internally make adjustments to speed of Pan/Tilt.</p> <p>Saving a preset is a three step process:</p> <ol style="list-style-type: none"> 1. Move the camera to the desired position 2. Press Save (the Save_Fb will go high) 3. Press the preset you wish to save the location to. <p>To recall a preset, just press the preset number.</p>
CRESTRON HARDWARE REQUIRED:	C2 Internal com ports, ST-COM, C2COM-2, C2COM-3
SETUP OF CRESTRON HARDWARE:	<p>RS232</p> <p>Baud: 9600</p> <p>Parity: E</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p>
VENDOR FIRMWARE:	Unknown
VENDOR SETUP:	The Polycom HDCI break-out cable is required for connection to the Eagle Eye camera.

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CABLE DIAGRAM:	For RS232:	
	2-Series: CNSP-122	
	3-Series:	
	Crestron	Polycom
	Pin: TX	Pin: 3
	Pin: RX	Pin: 2
	Pin: GND	Pin: 5



CONTROL:

Initialize	D	Pulse to set up communications with camera. Camera commands will not be sent until the control system and camera have setup their communications with each other.
Tilt_<Up/Down>	D	Press and hold to tilt the camera.
Pan_<Left/Right>	D	Press and hold to pan the camera.
Zoom_<Tele/Wide>	D	Press and hold to zoom the camera.
Focus_<Near/Far>	D	Press and hold to focus camera near. This will focus the camera if the camera is not in auto focus mode.
Auto_Focus_<On/Off/Toggle>	D	Pulse to turn the auto focus function on or off.
Auto_Iris_<On/Off/Toggle>	D	Pulse to turn the auto iris function on or off.
Manual_Iris_<Up/Down>	D	Press and hold to adjust Iris level when Auto Iris is off.
Shutter_Speed_*	D	Pulse to set the shutter speed.
Gain_Mode_*	D	Pulse to set the gain mode.

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White_Balance_*	D	Pulse to set the White Balance mode.
Enable_Video-Out_Default[720P]	D	Place 1 or 0 to enable or disable setting Video Output mode to 720P when 'Initialize' is pulsed.
Video-Out_*	D	Pulse to set the Video Output mode.
HDMI-Out_*	D	Pulse to set the HDMI Output mode.
Test_Signal_Off	D	Pulse to turn the Test Signal off.
Test_Signal_Color-Bars	D	Pulse to turn on camera-generated Test Signal.
Preset_*	D	Pulse to recall camera preset. If pulsed when the Preset_Save_Fb output is high, this will store the current camera position in the selected preset.
Save_Preset	D	Pulse to put the module into save mode to allow storage of presets.
Power_<On/Off>	D	Pulse to turn the camera on or off.
Auto-Power_<On/Off/Toggle>	D	Pulse to turn on/off camera auto power off feature. When auto power off is set to on, 'Auto Power Time' is sent to camera.
Proportional_Pan_Tilt_<On/Off/Toggle>	D	Pulse to enable/disable Proportional Pan/Tilt.
Send_Custom_Preset	D	This just passes through the module to trigger the "Custom_Preset_Sent" output signal. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
Go_Custom_Preset	D	This sends a pan tilt zoom command to the camera based on the analog "In_<X, Y, Z>_Axis" input signal coordinates. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
Get_Current_Coordinates	D	This polls the camera for its current position and outputs the values via the analog "Out_<X, Y, Z>_Axis" output signals. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
In_<X/Y/Z>_Axis	A	X, Y, Z coordinates that can be entered. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
From_Device	S	Serial information received from device via 2-way serial port.

FEEDBACK:

Initialize_Busy	D	Indicates that the module is currently performing its initialization sequence.
Auto_Focus_Is_<On/Off>	D	Indicates the current Auto Focus status.

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Auto_Iris_Is_<On/Off>	D	Indicates the current Auto Iris status.
Manual_Iris_Level	D	True feedback indicating current Iris level (0% - 100%) when Auto Iris is Off.
Shutter_Speed_Is_*	D	Indicates the current shutter speed.
Gain_Mode_Is_*	D	Indicates the current Gain Mode.
White_Balance_Is_*	D	Indicates the current White Balance.
Video-Out_Is_*	D	Indicates the current Video Output mode.
HDMI-Out_Is_*	D	Indicates the current HDMI Output mode.
Test_Signal_Is_Off	D	Indicates that the Test Signal Is Off.
Test_Signal_Color-Bars_Is_On	D	Indicates that the camera-generated Test Signal is on.
Preset_Is_*	D	Indicates the current camera preset.
Save_Preset_Is_On	D	High to indicate that the module is in save mode. Pulsing one of the Preset inputs will store the current camera location to that preset.
Preset_Is_Busy	D	High to indicate that a preset is being recalled. You cannot select another preset while this is high.
Power_Is_<On/Off>	D	Indicates the current camera power status.
Auto-Power_Is_<On/Off>	D	Indicates the current auto power off feature status.
Proportional_Pan_Tilt_Is_<On/Off>	D	Indicates the current Proportional Pan/Tilt setting.
Custom_Preset_Sent	D	This can be passed to an external preset module to store the current X, Y, Z coordinates. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
Out_<X/Y/Z> Axis	A	Indicates the last polled X, Y, Z coordinates. This is part of an added option to enable storing/recalling of camera presets externally. Not generally used.
To_Device	S	Serial information sent to device via 2-way serial port.

PARAMETERS:

Normal Pan Speed 1	A	Enter the normal pan speed 1. Default is 12h.
Normal Pan Speed 2	A	Enter the normal pan speed 2. Default is 16h

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Normal Pan Speed 3	A	Enter the normal pan speed 3. Default is 1Ah.
Proportional Pan Speed	A	Enter the proportional pan speed. Default is 16h.
Normal Tilt Speed 1	A	Enter the normal tilt speed 1. Default is 12h.
Normal Tilt Speed 2	A	Enter the normal tilt speed 2. Default is 16h.
Proportional Tilt Speed	A	Enter the proportional tilt speed. Default is 14h
Zoom Speed 1	A	Enter the zoom speed 1. Default is 01h.
Zoom Speed 2	A	Enter the zoom speed 2. Default is 02h
Focus Speed	A	Enter the focus speed. Default is 02h.
Auto Power Time	D	Enter the auto power time. Default is 30h.

TESTING:

OPS USED FOR TESTING:	2-Series: v4.007.0005 3-Series: v1.008.0040
SIMPL WINDOWS USED FOR TESTING:	4.02.38
CRES DB USED FOR TESTING:	44.00.002.00
DEVICE DB USED FOR TESTING	54.05.004.00
SYMBOL LIBRARY USED FOR TESTING:	888
SAMPLE PROGRAM:	2-Series: Polycom Eagle Eye Camera Demo v3.2 PRO2 3-Series: Polycom Eagle Eye Camera Demo v3.2 MC3
REVISION HISTORY:	v1.0 – Original release. v3.2 – Added 1080P setting button. Added optional signals to enable storing/recalling of camera X, Y, Z coordinates externally. Optimized Iris control to run with 3-Series.