

SIMPLWINDOWS NAME: ClearOne Ceiling DocCam

CATEGORY: Camera

VERSION: 1.0

SUMMARY: Controls power/zoom/focus/iris

GENERAL NOTES: This module will control the basic RS-232 functions of a ClearOne (VideoLabs) Ceiling DocCam. Discrete power on/off as well as a toggled power is provided to choose from. All feedback is simulated. The unit does not provide feedback when changing the power state so true feedback is not available. If true feedback for power on/off is desired a video sensor (ST-VS) could be used to determine the unit's on/off state. Zoom presets are also not available because a specific zoom value cannot be sent to the camera.

CRESTRON HARDWARE REQUIRED: C2COM3
CNXCOM2
ST-COM

SETUP OF CRESTRON HARDWARE: Baud Rate - 4800
Parity - Even
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: None

VENDOR SETUP: None

CABLE NUMBER: CNSP-653

CONTROL:

Power_On	D	Pulse the camera to turn on.
Power_Off	D	Pulse the camera to turn off.
Power_Toggle	D	Toggles power on/off from a single button.
Zoom_In	D	Zooms lens in as long as input is held high.
Zoom_Out	D	Zooms lens out as long as input is held high.
Digital_Zoom_Off	D	Turns off digital zoom. This is the default state when the unit is powered on.
Digital_Zoom_On	D	Enables 2X digital zoom.
Focus_Near	D	Adjusts near focus of camera. Manual focus command must be sent before camera will respond to Near or Far Focus commands.
Focus_Far	D	Adjusts far focus of camera. Manual focus command must be sent before camera will respond to Near or Far Focus commands.
Auto_Focus	D	Enables auto-focus of the camera. This is the default state when the camera powers on.
Manual_Focus	D	Enables the camera's focus to be manually adjusted using the Near/Far_Focus inputs.
Iris_+	D	Ramps the iris level up enabling more light into the camera.
Iris_-	D	Ramps the iris level down reducing the amount of light into the camera.
BLC_On	D	Turns on the camera's Back Light Compensation.
BLC_Off	D	Turns off the camera's Back Light Compensation. This is the default setting when the camera is powered on.

FEEDBACK:

Power_On_fb	D	Feedback indicating that the power is ON.
Power_Off_fb	D	Feedback indicating that the power is OFF.
Zoom_In_fb	D	Feedback that Zoom_In is held high.
Zoom_Out_fb	D	Feedback that Zoom_Out is held high.
Digital_Zoom_Off_fb	D	Interlocked feedback that th digital zoom is turned off.
Digital_Zoom_On_fb	D	Interlocked feedback that the 2X digial zoom is engaged.
Focus_Near_fb	D	Feedback that Focus_Near is held high.
Focus_Far_fb	D	Feedback that Focus_Far is held high.
Auto_Focus_fb	D	Interlocked feedback that Auto Focus is engaged.
Manual_Focus_fb	D	Interlocked feedback that the camera is enabled for manual focusing.
Iris+_fb	D	Feedback that Iris_+ is held high.
Iris-_fb	D	Feedback that Iris_- is held high.
BLC_On_fb	D	Interlocked feedback that Back Light Compensation is engaged.
BLC_Off_fb	D	Interlocked feedback that Back Light Compensation is off.
To_Device\$	S	Serial signal to be routed to an RS-232 port.

OPS USED FOR TESTING:

2-Series Processor - 3.015
MSX Series Processor - 5.12.63

COMPILER USED FOR TESTING:

SIMPL Windows version 2.03.12

SAMPLE PROGRAM:

ClearOne Ceiling DocCam Basic Functions

REVISION HISTORY:

None