

**SIMPLWINDOWS  
NAME:**

Canon VC-C4 Standard Control

**CATEGORY:**

Camera

**VERSION:**

1.0

**SUMMARY:**

Controls pan/tilt/foc/zoom/25 presets

**GENERAL NOTES:**

The Canon VC-C4 camera must be set up properly for communications with the Crestron system. This is done by using the Canon IR remote to enter the on-screen menus. Go to the Set Menu. Under the RS232 menu, make sure that the settings match the settings of the Crestron com port. It was tested at Crestron using 9600,N,8,1. Under Remote Controller ID, make sure that the ID number matches the ADDRESS(0-9) parameter on the module. Under the Command menu, make sure that VC-C4 mode is selected.

After applying AC power to the camera, you will need to put it into Host mode. This is done by pulsing the RS232-ON input on this module. If it is desired to return to Local mode, you can pulse the RS232-OFF input. Note that while Host mode is active, the Canon IR remote will no longer directly control the camera. However, it will pass commands to the Crestron system, which can be set up to control the camera. If it is desired to have the IR remote functions active while Host mode is on, put a 1 on the ENABLE-IR-REMOTE\_(O\_OR\_1) input. If the IR remote should be disabled, put a 0 on this input. If enabled, all IR remote buttons should work except for Power, On-Screen, Fn, ID, Menu, Cancel, and Bright+/-.

After putting the camera into host mode, you should initialize it using either the INITIALIZE-TO-HOME (which will send the camera to the home position) or the INITIALIZE-TO-ORIGIN (which will return the camera to it's original position) input. If this is not done, the first time that a camera movement function is activated, the camera will automatically initialize itself.

Note that whenever a preset is selected, auto-focus mode will be activated. Also note that whenever focus near or far is activated, auto-focus will be deactivated.

This module allows you to specify the address of the camera. It should be set to match the address as set in the Camera's on-screen menu. This module was only tested with a single camera attached to the Crestron system. No testing was performed of multiple cascaded cameras connected to a single Crestron port.

This module applies the same auto-speed function as the Canon IR remote uses. So as you hold down a pan, tilt, or zoom button, the speed will increase. Pan and Tilt have three speeds. Zoom has 2 speeds.

This module provides access to 25 presets stored in the Crestron system. You cannot select a new preset until the camera has finished going to the previous preset. While the camera is going to a preset, the PRESET-BUSY output will be high. Storing a preset is a three step process:

1. Move the camera to the desired position
2. Pulse the SAVE input - SAVE-FB will go high indicating store mode is active.
3. Pulse the preset you would like to store the position into.

Note that all digital inputs to this module should be momentary, (as if coming from a button on a touchpanel), or 0, except where previously noted.

**CRESTRON  
HARDWARE  
REQUIRED:** CNMSX,  
CNXCOM,  
ST-COM

**SETUP OF CRESTRON  
HARDWARE:** The port should be set as follows:

Baud Rate - 9600  
Parity - None  
Data Bits - 8  
Stop Bits - 1

**VENDOR FIRMWARE:** None

**VENDOR SETUP:** Using on screen menus, must set:

1. RS232 baud rate/parity
2. Camera ID
3. VC-C4 command mode

**CABLE DIAGRAM:** CNSP-504

## CONTROL:

<b>TILT-UP/DOWN</b>	D	Press and hold to activate tilt
<b>PAN-LEFT/RIGHT</b>	D	Press and hold to activate pan
<b>ZOOM-IN/OUT</b>	D	Press and hold to activate zoom
<b>FOCUS-NEAR/FAR</b>	D	Press and hold to activate focus. Will turn off auto-focus automatically
<b>AUTOFOCUS-ON/OFF/TOG</b>	D	Enable/Disable auto-focus mode
<b>PRESET-*</b>	D	If pressed while Save Mode active - will recall a preset. If pressed while Save Mode active - will store a preset
<b>SAVE</b>	D	Enable/Disable Save Mode
<b>HOME</b>	D	Send the camera to the Home position
<b>RS232-ON/OFF</b>	D	Activate/Deactivate Host mode. Camera must be placed in host mode before any other commands will function.
<b>POWER-ON/OFF</b>	D	Pulse to power the camera on or off
<b>INITIALIZE-*</b>	D	Pulse to initialize the camera to either it's home position, or it's original position
<b>ENABLE-IR-REMOTE</b>	D	Place a 1 or 0 on this input to either enable or disable most of the functionality of the Canon IR remote, while Host mode is active
<b>CANON-RX\$</b>	S	Serial signal to be routed to a 2-way RS232 port
<b>ADDRESS(0-9)</b>	P	Address of the camera (as set in the camera's on-screen menu). Should be a number from 0-9 with no suffix

## FEEDBACK:

<b>AUTOFOCUS-ON/OFF-FB</b>	D	Simulated feedback indicating when autofocus mode is on/off
<b>PRESET- *-FB</b>	D	Indicates the last preset selected
<b>SAVE-FB</b>	D	High while save mode is active
		High while the camera is moving to a preset.

<b>PRESET-BUSY</b>	D	Another preset cannot be selected while this output is high
<b>CANON-TX\$</b>	S	Serial signal to be routed to a 2-way RS232 port

<b>OPS USED FOR TESTING:</b>	5.12.01
<b>COMPILER USED FOR TESTING:</b>	SimplWindows Version 1.51.08
<b>SAMPLE PROGRAM:</b>	Canon VC-C4 Standard Control Demo Program
<b>REVISION HISTORY:</b>	None