SIMPLWINDOWS NAME: None

CATEGORY: Camera

VERSION: None

SUMMARY: This module is used to control a Canon VC-C3 communication camera. A CNXCOM port must be used since two way RS232 communication is necessary.

GENERAL NOTES: You must establish communications with the camera by pulsing RS232-ON. This will enable the RS232 port. After the camera is in RS232 mode, the rest of the inputs and outputs will function correctly.

This module uses the same auto-speed feature as the IR remote. When a pan, tilt, or zoom button is first pressed, the camera will begin moving slowly. If the button is held down, the camera will speed up.

Saving a preset is a three step process:

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.

To recall a preset, just press the preset number.

CRESTRON HARDWARE REQUIRED: CNXCOM

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

Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1
RTS and CTS must be enabled

VENDOR FIRMWARE: None

VENDOR SETUP: The rotary ID switch on the Canon VC-C3 should be set to ID 0.

All four DIP switches on the Canon VC-C3 should be in the up (off) position.

CABLE DIAGRAM: The cable connecting the CNXCOM port to the camera should be as follows (identical to the Canon VC-C1 camera cable):

CNXCOM	to	Canon VC-C3
2	to	3
3	to	5
5	to	4, 6
7	to	2
8	to	1

CONTROL:

TILT-UP control tilt, pan, focus, zoom for as long as signal is held high

TILT-DOWN control tilt, pan, focus, zoom for as long as signal is held high

PAN-LEFT	control tilt, pan, focus, zoom for as long as signal is held high
PAN-RIGHT	control tilt, pan, focus, zoom for as long as signal is held high
ZOOM-IN	control tilt, pan, focus, zoom for as long as signal is held high
ZOOM-OUT	control tilt, pan, focus, zoom for as long as signal is held high
FOCUS-NEAR	control tilt, pan, focus, zoom for as long as signal is held high
FOCUS-FAR	control tilt, pan, focus, zoom for as long as signal is held high
AUTOFOCUS-ON	Turn on autofocus (recalling a preset will also turn it on)
AUTOFOCUS-OFF	Turn off autofocus (using manual focus controls will also turn it off)
AUTOFOCUS-TOGGLE	Toggle the state of autofocus
PRESETS	Used to store and recall presets for pan, tilt and zoom positions
SAVE	Puts the module into save mode to allow storage of presets
HOME	Sends the camera to a home position for pan and tilt
RS232-ON	Puts the camera into RS232 control mode. This must be done before any other commands are sent to it.
RS232-OFF	Takes the unit out of RS232 control mode
VCC3-RX$	A serial data signal coming from the CNXCOM port.

FEEDBACK:

AUTOFOCUS-ON-FB	Real feedback indicating if camera is in autofocus
AUTOFOCUS-OFF-FB	Real feedback indicating when camera is not in autofocus
PRESETS-FB	Indicate which preset was last chosen
PRESET-SAVE-FB	Indicates when the module is in save mode
RS232-ON-FB	Real feedback indicating control mode of camera
RS232-OFF-FB	Real feedback indicating control mode of camera
PRESET-BUSY	High while a preset is being saved or recalled
VCC3-TX$	A serial data signal going to the CNXCOM port

OPS USED FOR TESTING:	3.17.30	
COMPILER USED FOR TESTING:	3.18.04	
WORKSHOP USED FOR TESTING:	5.23	
SAMPLE PROGRAM:	VCC3TEST.CN2, VCC3TEST.PRJ	
REVISION HISTORY:	CN-VCC3R	Original
	CN-VCC3B	Add IR remote control No need to initialize presets No need to store end stops No preset recall on RS232 mode on
	CN-VCC3C	Remove INIT preset function
	CN-VCC3D	Correct problem with pan/tilt

speed increasing too quickly