

Partner: Hitachi
Model: VZ-HD3700HC
Device Type: Camera



GENERAL INFORMATION

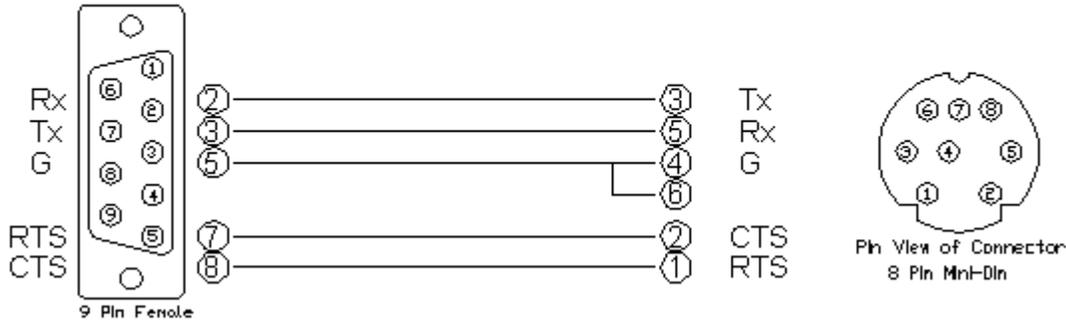
SIMPLWINDOWS NAME:	Hitachi VZ-HD3700HC Camera Control with Joysticks
CATEGORY:	Camera
VERSION:	1.0
SUMMARY:	This module controls the Hitachi VZ-HD3700HC.
GENERAL NOTES:	<p>There are two ways to control the camera using the digital Pan/Tilt inputs. One way automatically changes speeds the longer you hold 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. Also, selecting the speed of default will use the default speeds preprogrammed into the module. The digital inputs for zoom will also automatically change speeds.</p> <p>The second way uses proportional pan tilt speeds. The current zoom position is determined. Then the speed is set based on that zoom position.</p> <p>Saving a preset is a three step process:</p> <ol style="list-style-type: none">1. Move the camera to the desired position2. Press Save (the Save_Fb will go high)3. Preset the preset you wish to save the location to. <p>To recall a preset, just press the preset number.</p> <p>The joystick inputs are designed to come from a Crestron CPC-2000 joystick controller. Both the joysticks and the speed knobs are implemented.</p> <p>It is very important to poll the Request_Speeds input before attempting to use the joystick controls. This will request the maximum speeds that the camera will support. This must be done once for each camera. After the maximum speeds have been requested, they will be saved to non-volatile RAM.</p>
CRESTRON HARDWARE REQUIRED:	CNX Internal com ports, C2 Internal com ports, ST-COM, CNXCOM-2, C2COM-2, C2COM-3
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Unknown
VENDOR SETUP:	If you are using more than one camera with the VISCA inputs daisy chained, you must pulse the Set_Addresses input. This will set the address of each camera on the daisy chain.
CABLE DIAGRAM:	CNSP-504

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CNSP-504

Rear View of Connector



CONTROL:

Request_Speeds	D	Pulse to get the maximum speeds for the camera. This only needs to be done once for each camera.
Pan_Joystick	A	Analog signal from the pan_joy output of the CPC-2000 Joystick Camera Control symbol.
Tilt_Joystick	A	Analog signal from the tilt_joy output of the CPC-2000 Joystick Camera Control symbol.
Zoom_Joystick	A	Analog signal from the zoom_joy output of the CPC-2000 Joystick Camera Control symbol.
Focus_Joystick	A	Analog signal from the foc_joy output of the CPC-2000 Joystick Camera Control symbol.
Pan_Speed	A	Analog signal from the pan_spd output of the CPC-2000 Joystick Camera Control symbol.
Tilt_Speed	A	Analog signal from the tilt_spd output of the CPC-2000 Joystick Camera Control symbol.
Zoom_Speed	A	Analog signal from the zoom_spd output of the CPC-2000 Joystick Camera Control symbol.
Tilt_Up/Down	D	Press and hold to tilt the camera.
Pan_Left/Right	D	Press and hold to pan the camera.
Zoom_In/Out	D	Press and hold to zoom the camera.
Focus_Near/Far	D	Press and hold to focus the camera. This will focus the camera if the camera is not in auto focus mode.

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Auto_Focus_On/Off/Toggle	D	Pulse to turn the auto focus function on and off.
Preset_*	D	Pulse to go to the preset. If pulsed when the Preset_Save_Fb output is high, this will store the current camera position in the selected preset.
Save	D	Pulse to put the module into save mode to allow storage of presets.
Home	D	Pulse to send the camera to the home position for pan and tilt.
Power_On/Off	D	Pulse to turn the camera on and off.
Track_Commands	D	Pulse to activate and control the auto-tracking features of the camera.
Enable_Proportional_Pan_Tilt	D	Hold high to use proportional pan and tilt speeds. Hold low to use the auto speed change feature of the module.
Set_Addresses	D	Pulse once to set the addresses for the cameras with the VISCA inputs daisy chained.
Address (1-7)	P	The address number for the camera this module will control. This corresponds to the camera selector switch on the back of the camera.
Address+8 (9-F)	P	The address plus 8. Address = 1, address+8 = 9; Address = 7, address+8 = F
Pan Speed *	P	The desired speed for the pan function Select from the list. This is only used if the Enable_Proportional_Pan_Tilt input is held low.
Tilt Speed *	P	The desired speed for the tilt function Select from the list. This is only used if the Enable_Proportional_Pan_Tilt input is held low.
Zoom Speed *	P	The desired speed for the zoom function Select from the list.
From_Device	S	Serial signal to be routed from a 2 way serial com port.

FEEDBACK:

Preset_*_Fb	S	High to indicate the last preset selected.
Preset_Save_Fb	S	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_Busy	S	High to indicate that a preset is being recalled. You cannot select another preset while this is high.
To_Device	S	Serial signal to be route to a 2 way serial com port.

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**PARAMETERS:**

Address (1-7)	D	The address number for the camera this module will control. This corresponds to the camera selector switch on the back of the camera.
Address+8 (9-F)	D	The address plus 8. Address = 1, address+8 = 9; Address = 7, address+8 = F
Pan Speed *	D	The desired speed for the pan function Select from the list. This is only used if the Enable_Proportional_Pan_Tilt input is held low.
Tilt Speed *	S	The desired speed for the tilt function Select from the list. This is only used if the Enable_Proportional_Pan_Tilt input is held low.
Zoom Speed *	P	The desired speed for the zoom function Select from the list.

TESTING:

OPS USED FOR TESTING:	2 Series: v4.008.0008 3 Series: v1.010.0060
SIMPL WINDOWS USED FOR TESTING:	4.03.14
DEVICE DB USED FOR TESTING:	67.00.001.00
CRES DB USED FOR TESTING:	52.05.013.00
SYMBOL LIBRARY USED FOR TESTING:	956
SAMPLE PROGRAM:	2 Series: Hitachi VZ-HD3700HC v1.0 Demo PRO2.smw 3 Series: Hitachi VZ-HD3700HC v1.0 Demo PRO3.smw
REVISION HISTORY:	v1.0 – Initial Release