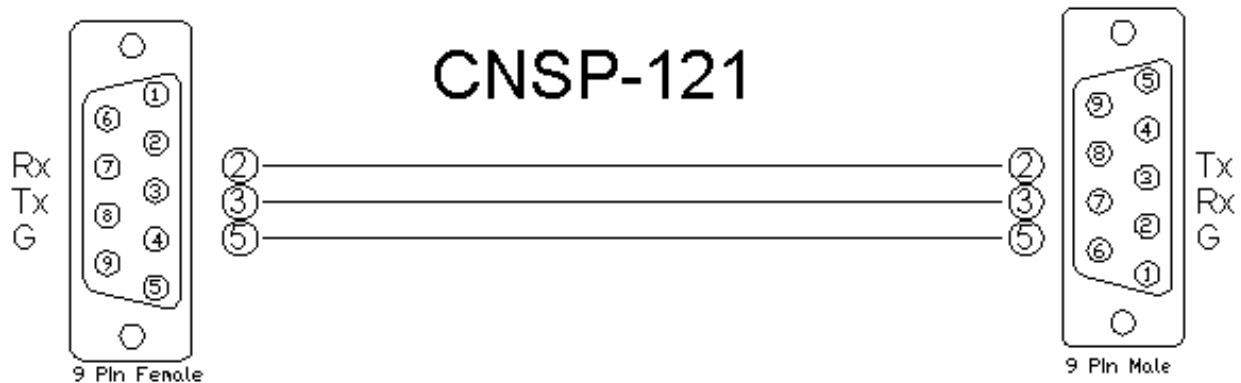


**Partner: NuVision**  
**Model: LCD Displays**  
**Device Type: TV/Video Projector**


**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	NuVision NVX23+26HDU2 & NVX32+37HDUM & NVX37HDUP & 42+47LCM1 LCD Display v1.1
<b>CATEGORY:</b>	TV/Video Projector
<b>VERSION:</b>	1.1
<b>SUMMARY:</b>	This module controls the NuVision LCD displays.
<b>GENERAL NOTES:</b>	<p>This module provides control and feedback for the NuVision line of LCD displays. It was tested with the NVX23HDU2 and the NVX32HDUM. The documentation indicates it will also work for the NVX26HDU2, NVX37HDUM, NVX37HDUP, 42LCM1 and the 47LCM1.</p> <p>NOTE: Not all functions are available on all models.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	CNXC0M-6, CNXC0M-2, ST-COM, C2I-COM6, C2COM-2/3
<b>SETUP OF CRESTRON HARDWARE:</b>	<p>RS232</p> <p>Baud: 115200</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p>
<b>VENDOR FIRMWARE:</b>	Version: 1.33a
<b>VENDOR SETUP:</b>	None
<b>CABLE DIAGRAM:</b>	CNSP-121



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**CONTROL:**

Power_On/Off/Toggle	D	Pulse to turn the LCD on and off.
Input_*	D	Pulse to select the desired input. NOTE: NOT ALL INPUTS ARE AVAILABLE ON ALL MODELS.
Aspect_Ratio_*	D	Pulse to select the desired aspect ratio.
Volume_Up/Down	D	Press and hold to adjust the volume level.
Volume_Mute_On/Off/Toggle	D	Pulse to turn the volume mute on and off.
Contrast/Brightness_Up/Down	D	Press and hold to adjust the contrast or brightness.
Saturation/Tint_Up/Down	D	Press and hold to adjust the saturation or tint.
Color_Warmth_*	D	Pulse to select the desired color warmth.
Auto_Color_Control_On/Off/Toggle	D	Pulse to turn the auto color control on and off.
Channel_Up/Down	D	Pulse to adjust the channel.
Previous_Channel	D	Pulse to go to previous channel.
Key_*	D	Pulse to send the number pad key presses. These are just like pushing the buttons on the IR remote.
PIP_On/Off	D	Pulse to turn the PIP window on and off.
PIP_Left/Right_Top/Bottom	D	Pulse to move the PIP window to the desired position.
PIP_Large/Small	D	Pulse to select the desired size for the PIP window.
PIP_Swap	D	Pulse to swap the selected inputs between the main and PIP windows.
IR_Key_*	D	Pulse to send the key presses. These are just like pushing the buttons on the IR remote.
Poll_Enable	D	Hold high to enable polling.
From_Device\$	S	Serial signal to be routed from a 2-way serial com port.

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**FEEDBACK:**

<b>Power_On/Off_Fb</b>	D	High to indicate the current power state.
<b>Input_*_Fb</b>	D	High to indicate the currently selected input.
<b>Volume_Bar</b>	A	Analog value indicating the current volume level. To be displayed using a bar graph on a touch panel.
<b>Volume_Mute_On/Off_Fb</b>	D	High to indicate the current volume mute state.
<b>Contrast_Bar</b>	A	Analog value indicating the current contrast level. To be displayed using a bar graph on a touch panel.
<b>Brightness_Bar</b>	A	Analog value indicating the current brightness level. To be displayed using a bar graph on a touch panel.
<b>Saturation_Bar</b>	A	Analog value indicating the current saturation level. To be displayed using a bar graph on a touch panel.
<b>Tint_Bar</b>	A	Analog value indicating the current tint level. To be displayed using a bar graph on a touch panel.
<b>Color_Warmth_*_Fb</b>	D	High to indicate the currently selected color warmth.
<b>Auto_Color_Control_On/Off_Fb</b>	D	High to indicate the current auto color control state.
<b>Channel_Analog</b>	A	Analog value indicating the current TV channel. To be displayed using a digital gauge.
<b>To_Device\$</b>	S	Serial signal to be routed to a 2-way serial com port.

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	3.155.1240
<b>SIMPL WINDOWS USED FOR TESTING:</b>	2.08.41
<b>CRES DB USED FOR TESTING:</b>	18.8.8
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	487
<b>SAMPLE PROGRAM:</b>	NuVision LCD Display Demo
<b>REVISION HISTORY:</b>	V. 1.0 – original release. V. 1.1 – Changed model NVX37HDUMP to NVX37HDUP.