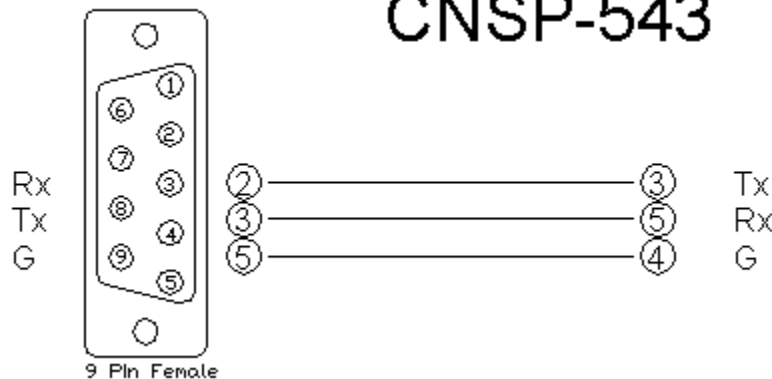


**Partner: Canon**  
**Model: SX50**  
**Device Type: Video Projector**


**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	Canon SX50
<b>CATEGORY:</b>	TV/Video Projector
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module provides control and true feedback for the Canon SX50.
<b>GENERAL NOTES:</b>	<p>This module provides control and true feedback of the Canon SX50 projector.</p> <p>NOTE: THIS MODULE CANNOT BE USED AT THE SAME TIME AS THE Canon SX50 IR Emulation CONTROL MODULE.</p> <p>NOTE: LAMP HOURS ARE NOT TRUE HOURS. THE FEEDBACK FROM THE PROJECTOR INDICATES A RANGE OF HOURS ONLY. THE VALUES ON THE Lamp_Hours OUTPUT ARE THE MAXIMUM VALUE FROM THE CURRENT RANGE. SEE BELOW.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	CNXCOM-6, CNX-COM2, ST-COM, C21-COM, C2COM-2, C2COM-3
<b>SETUP OF CRESTRON HARDWARE:</b>	<p>RS232</p> <p>Baud: 19200</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 2</p>
<b>VENDOR FIRMWARE:</b>	N/A
<b>VENDOR SETUP:</b>	N/A
<b>CABLE DIAGRAM:</b>	CNSP-543

Rear View of Connector



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**CONTROL:**

Power_On/Off/Toggle	D	Pulse to turn the projector on and off.
Input_*	D	Pulse to select the input.
Auto_PC	D	Pulse to force the projector to auto sync to the PC input. You must already be on one of the PC inputs.
Aspect_Ratio_*	D	Pulse to select the aspect ratio.
Image_*	D	Pulse to select the image quality.
Input_2_In/Out	D	Pulse to set Input 2 to act as an input or an output.
Lamp_Mode_Normal/Silent	D	Pulse to set the lamp mode to normal or silent.
Brightness_Up/Down	D	Press and hold to adjust the brightness.
Sharpness_Up/Down	D	Press and hold to adjust the sharpness.
Contrast_Up/Down	D	Press and hold to adjust the contrast.
Saturation_Up/Down	D	Press and hold to adjust the saturation.
Hue_Up/Down	D	Press and hold to adjust the hue.
Volume_Up/Down	D	Press and hold to adjust the volume.
Volume_Mute_On/Off/Toggle	D	Pulse to turn the volume mute on and off.
Enable_Polling	D	Hold high to enable polling.
Get_Lamp_Hours	D	Pulse to get the lamp hours. Normally, this is not needed. Lamp hours will be polled for if the Enable_Polling is held high.
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>Aspect_Ratio_*_Fb</b>	D	High to indicate the currently selected aspect ratio.
<b>Image_*_Fb</b>	D	High to indicate the currently selected image quality.
<b>Input_2_In/Out_Fb</b>	D	High to indicate the current state of input 2.
<b>Lamp_Mode_Normal/Silent_Fb</b>	D	High to indicate the current state of the lamp mode.
<b>*_Bar</b>	A	Analog value representing the current values for Brightness, Sharpness, Contrast, Saturation, Hue and Volume. To be displayed using a bar graph on a touch panel.
<b>Volume_Mute_On/Off_Fb</b>	D	High to indicate the current state of the volume mute.
<b>Lamp_Hours</b>	A	Analog value indicating the approximate lamp hours. This is NOT actual lamp hours. The feedback we get from the projector indicates ranges. The value here is the high end of the range.
<b>Lamp_Steps</b>	A	Analog value indicating the lamp status by a number of steps. There are 8 steps total. The ranges are 0-199, 200-399, 400-599, 600-799, 800-999, 1000-1199, 1200-1399, and 1400.
<b>To_Device\$</b>	S	Serial signal to be routed to a 2-way serial com port.

**TESTING:**

<b>OPS USED FOR TESTING:</b>	PRO2: 3.137 CNMSX: 5.14.02x
<b>COMPILER USED FOR TESTING:</b>	2.05.22
<b>SAMPLE PROGRAM:</b>	Canon SX50 Demo
<b>REVISION HISTORY:</b>	V. 1.0