

**Partner: Clarity Visual Systems**  
**Model: Puma**  
**Device Type: Wall Display**



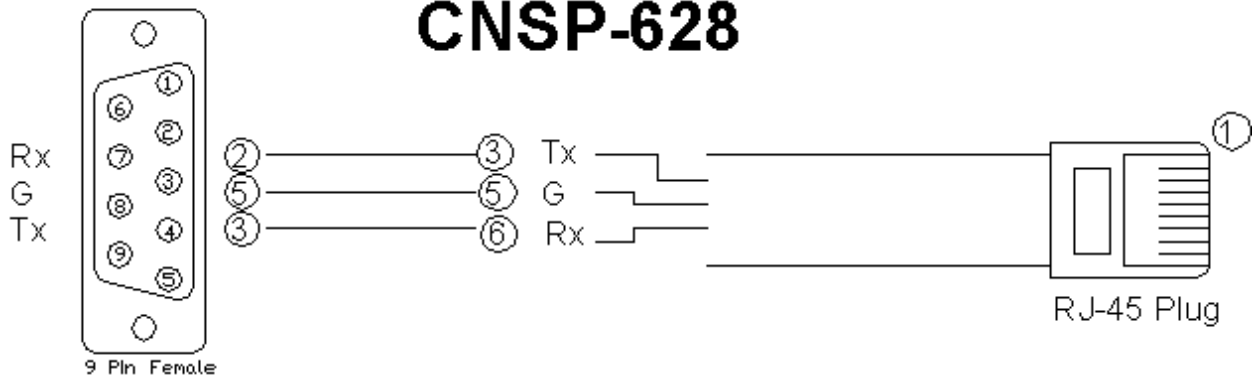
## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Clarity Systems Puma Wall Display
<b>CATEGORY:</b>	TV/Video Projector
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module controls the Clarity Puma Wall Display.
<b>GENERAL NOTES:</b>	<p>This module will control a Clarity Puma Wall Display. It can provide real feedback. There are two parameters on the module. One is the Group ID and the other one is the Unit ID. Either one or both of these can be set to the '*'. This will cause the module to control more than one display in the wall. For example, if you set the Group ID to 9 and the Unit ID to*, the module will control all of the displays that have their Group ID set to 9 no matter what the Unit ID is set to. Setting both to * will control all of the displays in the wall.</p> <p>NOTE: When using the * for either on or both of the Ids, the module WILL NOT provide feedback, because the devices will not provide feedback.</p> <p>The display is designed to display an image either as a single display or as part of a larger display wall. Wall Height and Wall Width are the number of cubes high and wide for the PICTURE. This may be different from the physical wall size. You could build a 4x4 wall of Pumas and use Wall Mode to put a single picture on the 4 cubes in the upper left corner, for instance.</p> <p>NOTE: FOR MORE INFORMATION ABOUT WALL SIZE AND POSITION, PLEASE REFER TO THE USER GUIDE WITH THE PUMA DISPLAY.</p> <p>NOTE: This module has been proven to control a single Clarity Visual Systems Puma cube. It HAS NOT been tested to operate in a multiple cube environment.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	CNXCOM, CNXCOM-2, C2COM, C2COM-2, C2COM-3, ST-COM
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 19200 Parity: None Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	Rev 2.1
<b>VENDOR SETUP:</b>	You will need to set the Group ID and the Unit ID of the display.
<b>CABLE DIAGRAM:</b>	CNSP-628

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Rear View of Connector



## CONTROL:

<b>Power_On/Off/Toggle</b>	D	Pulse to turn the display on and off.
<b>Input_*</b>	D	Pulse to select the input.
<b>Aspect_Ratio_*</b>	D	Pulse to select the aspect ratio.
<b>Curtain_Pattern_*</b>	D	Pulse to select the pattern the display will use when the curtain (Picture Mute) is activated.
<b>Curtain_Toggle</b>	D	Pulse to turn the curtain (Picture Mute) on and off.
<b>Sharpness_*</b>	D	Pulse to set the sharpness.
<b>Brightness_Up/Down</b>	D	Press and hold to adjust the brightness.
<b>Contrast_Up/Down</b>	D	Press and hold to adjust the contrast.
<b>Hue_Up/Down</b>	D	Press and hold to adjust the hue.
<b>Saturation_Up/Down</b>	D	Press and hold to adjust the saturation.
<b>Wall_Height</b>	A	Set the Wall_Height of the picture.
<b>Send_Wall_Height</b>	D	Pulse to send the wall height set in the analog input.
<b>Wall_Width</b>	A	Set the Wall_Width of the picture.
<b>Send_Wall_Width</b>	D	Pulse to send the wall width set in the analog input.

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<b>Position_Column</b>	A	Set the position column of this display in the picture wall.
<b>Send_Position_Column</b>	D	Pulse to send the position column set in the analog input.
<b>Position_Row</b>	D	Set the position row of this display in the picture wall.
<b>Send_Position_Row</b>	D	Pulse to send position row set in the analog input.
<b>Wall_Mode_On/Off/Toggle</b>	D	Pulse to turn wall mode (Big Picture) on and off.
<b>Initialize</b>	D	Pulse to sync the Crestron system with the display. This MUST be done at least once to ensure proper control and feedback.
<b>Poll_Enable</b>	D	Hold high to poll the device for feedback. IF YOU SET THE GROUP ID OR THE UNIT ID TO *, SET THIS INPUT LOW, SINCE THE DISPLAYS WILL NOT PROVIDE FEEDBACK TO COMMANDS WITH AN * IN THE ADDRESS.
<b>From_Device\$</b>	S	Serial signal to be routed from a 2-way serial com port.

**PARAMETERS:**

<b>Group ID</b>	P	Set the Group ID for the display to be controlled or set to * to control all displays with the Unit ID set in the Unit ID parameter. Valid values are 0-9, A-Z capital letters only, or *.
<b>Unit ID</b>	P	Set the Unit ID for the display to be controlled or set to * to control all displays with the Group ID set in the Group ID parameter. Valid values are 0-9, A-Z capital letters only, or *.

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**FEEDBACK:**

Power_On/Off_Fb	D	High to indicate the current power state of the display.
Input_*_Fb	D	High to indicate the currently selected input.
Aspect_Ratio_*_Fb	D	High to indicate the currently selected aspect ratio.
Curtain_Pattern_*_Fb	D	High to indicate the currently selected curtain pattern. THIS DOES NOT INDICATE THAT THE CURTAIN IS ACTIVE.
Sharpness_*_Fb	D	High to indicate the current sharpness level.
*_Bar	A	Analog values indicating the current brightness, contrast, hue and saturation values. To be displayed using a bar graph on a touch panel.
Wall_*_Analog	A	Analog values indicating the current settings for the wall size.
Position_*_Analog	A	Analog values indicating the current settings for the display position.
Wall_Mode_On/Off_Fb	D	High to indicate the current state of the wall mode (Big Picture).
Lamp_Count	A	Analog value indicating the number of lamps.
Lamp_*_Hours	A	Analog values indicating the lamp hours for each lamp.
To_Device\$	S	Serial signal to be routed to a 2-way serial com port.

**TESTING:**

OPS USED FOR TESTING:	PRO2: 3.137 CNMSX: 5.14.02x
COMPILER USED FOR TESTING:	2.05.22
SAMPLE PROGRAM:	Clarity Systems Puma Wall Display Demo
REVISION HISTORY:	V. 1.0