

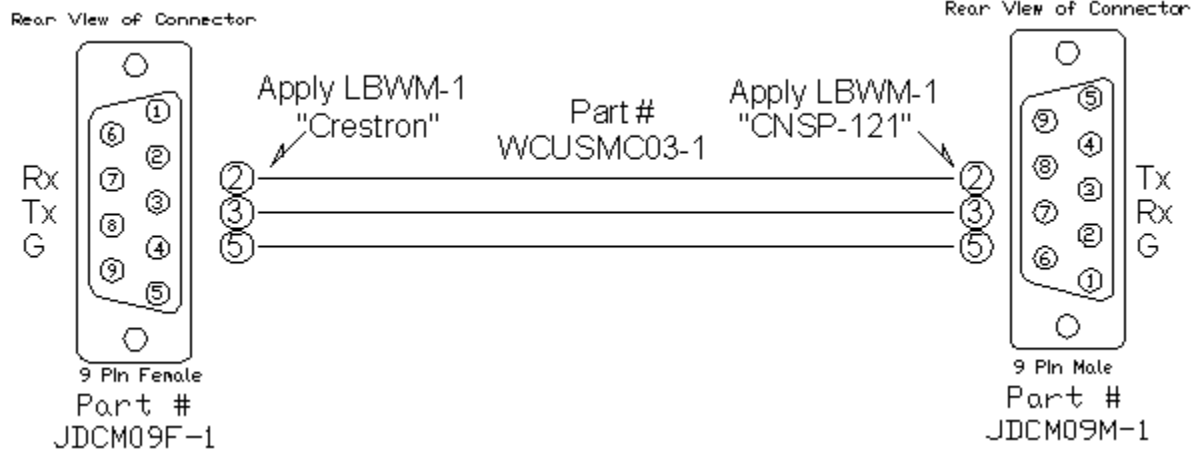
Partner: Audio Research
Model: DSPre
Device Type: Pre-Amplifier



GENERAL INFORMATION

SIMPLWINDOWS NAME:	AudioResearch DSPre Preamp v1.0.umc
CATEGORY:	Receiver/Processor
VERSION:	1.0
SUMMARY:	This module will control most "runtime" functions of the Audio Research Corp DSPre Pre-Amplifier.
GENERAL NOTES:	<p>When the unit first powers up, it takes 90 seconds for the outputs to respond to mute commands, the last mute cmd sent to the unit will automatically be triggered after the 90 seconds expires.</p> <p>When the INIT is pulsed after 10 seconds the input names entered into the module. into the Argument definitions will update the unit's input names that are visible on the front panel. This only needs to occur once. All input names MUST BE capitalized. Input names will be truncated to 6 characters on the front panel.</p>
CRESTRON HARDWARE REQUIRED:	CNXCOM-2, ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9,600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	
VENDOR SETUP:	none
CABLE DIAGRAM:	CNSP-121

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CONTROL:

Power_On	D	Pulse to change the unit's power state to on
Power_Off	D	Pulse to change the unit's power state to off
Power_Toggle	D	Pulse to toggle the unit's power state on/off
Volume_Up	D	Raise the unit's volume level
Volume_Down	D	Lower the unit's volume level
Volume_Set	A	Set the unit's volume level, valid values 0-65535d
Mute_On	D	Pulse to set the unit's mute state to on
Mute_Off	D	Pulse to set the unit's mute state to off
Mute_Toggle	D	Pulse to toggle the unit's mute state on/off
Mono_On	D	Pulse to change the unit's mono mode to on
Mono_Off	D	Pulse to change the unit's mono mode to off
Mono_Toggle	D	Pulse to toggle the unit's mono mode on/off
Invert_On	D	Pulse to change the unit's invert mode to on

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Invert_Off	D	Pulse to change the unit's invert mode to off
Invert_Toggle	D	Pulse to toggle the unit's invert mode on/off
Sharp_Filter_On	D	Pulse to change the unit's sharp DAC output filter state to on
Sharp_Filter_Off	D	Pulse to change the unit's sharp DAC output filter state to off
Sharp_Filter_Toggle	D	Pulse to toggle the unit's sharp DAC output filter state on/off
Up_Sample_On	D	Pulse to change the unit's up sample mode to on
Up_Sample_Off	D	Pulse to change the unit's upsample mode to off
Up_Sample_Toggle	D	Pulse to toggle the unit's up sample mode on/off
Balance_Right	D	Press and hold to adjust the Balance level to the right
Balance_Left	D	Press and hold to adjust the Balance level to the left
Balance_Set	A	Analog value setting the Balance level, -22 full left, 0 center, 22 full right
Display_Up	D	Pulse to advance the display setting one step forward
Display_Down	D	Pulse to move the display setting one step backward
Display_Dim	D	Pulse to set the display to the dimmest level
Display_Set	A	Analog value setting the display level, 1 dimmest, 7 brightest
Display_Normal	D	Pulse to set the display to the normal level
Input_Up	D	Pulse to move one step forward in the input loop
Input_Down	D	Pulse to move one step backward in the input loop
Select_USB2HS	D	Pulse to select the specified input
Select_RCA	D	Pulse to select the specified input
Select_AES/EBU	D	Pulse to select the specified input
Select_TOS	D	Pulse to select the specified input
Select_BAL1	D	Pulse to select the specified input
Select_BAL2	D	Pulse to select the specified input

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Select_SE1	D	Pulse to select the specified input
Select_SE2	D	Pulse to select the specified input
Select_SE3	D	Pulse to select the specified input
Select_PROCESSOR	D	Pulse to select the specified input
Enter	D	Pulse to trigger the Enter button
Menu	D	Pulse to trigger the Menu button
Play/pause_Toggle	D	Pulse to trigger the Play/pause button
Prev	D	Pulse to trigger the previous track button
Next	D	Pulse to trigger the next track button
Stop	D	Pulse to trigger the stop button
Set_Factory_Defaults	D	Pulse to set the unit to factory default settings
Poll_Power	D	Hold to poll the unit's power every 15 seconds
Poll_Settings	D	Hold to poll all the unit's settings every 60 seconds
Init	D	Pulse to set input names defined in the parameter field
From_Device	S	Serial data signal from a 2-way com port

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FEEDBACK:

Power_Is_On	D	High to indicate the current power state of the unit is On
Power_Is_Off	D	High to indicate the current power state of the unit is Off
Mute_Is_On	D	High to indicate the current mute state of the unit is On
Mute_Is_Off	D	High to indicate the current mute state of the unit is Off
Volume_Level	A	Analog value indicating the current volume level, to be displayed using a bar graph on a touch screen
Mono_Is_On	D	High to indicate Mono mode is on
Mono_Is_Off	D	High to indicate Mono mode is off
Invert_Is_On	D	High to indicate Invert mode is on
Invert_Is_Off	D	High to indicate Invert mode is off
Sharp_Filter_Is_On	D	High to indicate sharp DAC output filter is on
Sharp_Filter_Is_Off	D	High to indicate sharp DAC output filter is off
Up_Sample_Is_On	D	High to indicate Up Sample is on
Up_Sample_Is_Off	D	High to indicate Up Sample is off
Balance_Level	A	Analog value indicating the current Balance setting, -22 full left, 0 center, 22 full right
Display_Level	A	Analog value indicating the current display setting, 1 dimmest, 7 brightest
USB2HS_Is_Selected	D	High to indicate the currently selected input
RCA_Is_Selected	D	High to indicate the currently selected input
BNC_Is_Selected	D	High to indicate the currently selected input
AES/EBU_Is_Selected	D	High to indicate the currently selected input
TOS_Is_Selected	D	High to indicate the currently selected input
BAL1_Is_Selected	D	High to indicate the currently selected input

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BAL2_Is_Selected	D	High to indicate the currently selected input
SE1_Is_Selected	D	High to indicate the currently selected input
SE2_Is_Selected	D	High to indicate the currently selected input
SE3_Is_Selected	D	High to indicate the currently selected input
PROCESSOR_Is_Selected	D	High to indicate the currently selected input
To_Device	S	Serial signal to be routed to a 2-way serial com port

PARAMETERS:

USB2HS	P	USB2HS Input Name
RCA	P	RCA Input Name
BNC	P	BNC Input Name
AES/EBU	P	AES/EBU Input Name
TOS	P	TOS Input Name
BAL1	P	BAL1 Input Name
BAL2	P	BAL2 Input Name
SE1	P	SE1 Input Name
SE2	P	SE2 Input Name
SE3	P	SE3 Input Name

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**TESTING:**

OPS USED FOR TESTING:	3-series 1.002.0009
SIMPL WINDOWS USED FOR TESTING:	3.10.20
CRES DB USED FOR TESTING:	29.01.004.00
DEVICE DATABASE:	39.00.005.00
SYMBOL LIBRARY USED FOR TESTING:	772
SAMPLE PROGRAM:	Audio Research DSPre Preamp v1.0 Demo MC3.smw
REVISION HISTORY:	V. 1.0