

**Partner: Biamp**  
**Model: TesiraLUX**  
**Device Type: Digital Signal Processor**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Biamp Tesira AV Input Control v3.1
<b>CATEGORY:</b>	DSP
<b>VERSION:</b>	3.1
<b>SUMMARY:</b>	This module controls the Biamp TesiraLUX AV Input control points.
<b>GENERAL NOTES:</b>	Please note that control of the TesiraLUX IDH-1 auxiliary audio inputs can be gained using existing Biamp Tesira v3.1 modules. Similarly, the routing of streams from TesiraLUX IDH-1's to TesiraLUX OH-1's is controlled with the existing Biamp Tesira Router v3.1 module.
<b>CRESTRON HARDWARE REQUIRED:</b>	3-series & 4-series processors <b>only</b>
<b>SETUP OF CRESTRON HARDWARE:</b>	This module requires the Biamp Tesira Command Processor IP v3.1 or the Biamp Tesira Command Processor RS232 v3.1 modules in order to operate. Please read the help files associated with these modules.
<b>VENDOR FIRMWARE:</b>	Tesira Firmware - 3.16.0.27

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**PARAMETER:**

<b>Instance_Tag</b>	Instance_Tag is the unique name, for the control object, that was assigned inside the Biamp Tesira Programming. <i>Note: If your Instance_Tag has spaces in its name, surround the name with quotes using the \x22 hex escape sequence. Example: \x22My Name\x22</i>
<b>Command_Processor_ID</b>	Setting to indicate the ID for the command processor that this module will register itself with.

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**CONTROL:**

<b>Poll_AV_Input</b>	D	Pulse to poll for items that are not handled by subscriptions. A subscription is a process of registering for unsolicited messages. Some Biamp Tesira Control objects have this capability.
<b>Media_Source_Input_Port</b>	A	Set the Media Source input port to be used. Valid values are: 1 = HDMI 2 = DisplayPort
<b>Media_Source_Test_Pattern</b>	A	Set the Media Source test pattern to be used. Valid values are: 1 = Off 2 = Color Bar 3 = Grid 4 = HDMI 4:2:0
<b>Stream_Audio_Mute_On</b>	D	Pulse to set Network Stream Audio Mute on.
<b>Stream_Audio_Mute_Off</b>	D	Pulse to set Network Stream Audio Mute off.
<b>Stream_Audio_Mute_Toggle</b>	D	Pulse to toggle the state of the Network Stream Audio Mute.
<b>Stream_Video_Mute_On</b>	D	Pulse to set Network Stream Video Mute on.
<b>Stream_Video_Mute_Off</b>	D	Pulse to set Network Stream Video Mute off.
<b>Stream_Video_Mute_Toggle</b>	D	Pulse to toggle the state of the Network Stream Video Mute.
<b>Stream_Video_Freeze_On</b>	D	Pulse to set Network Stream Video Freeze on.
<b>Stream_Video_Freeze_Off</b>	D	Pulse to set Network Stream Video Freeze off.
<b>Stream_Video_Freeze_Toggle</b>	D	Pulse to toggle the state of the Network Stream Video Freeze.
<b>Enable</b>	D	Set High: Control Module Enabled. Set Low: Control Module Disabled.  <i>Note: Use a 1 for normal operation.</i>

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**FEEDBACK:**

<b>Is_Initialized</b>	D	High to indicate the module has successfully received all required responses from its initializing queries.
<b>Media_Source_Input_Port_Fb</b>	A	Value indicating the current Media Source Input Port. See above for valid values.
<b>Media_Source_Input_Port_Text</b>	S	Text indicating the current Media Source Input Port. See above for valid names.
<b>Media_Source_Test_Pattern_Fb</b>	A	Value indicating the current Media Source Test Pattern. See above for valid values.
<b>Media_Source_Test_Pattern_Text</b>	S	Text indicating the current Media Source Test Pattern. See above for valid names.
<b>Media_Source_Connected_Port_Fb</b>	A	Value indicating the current Media Source Connected Port. Valid values are: 1 = None 2 = HDMI 3 = DisplayPort 4 = Both
<b>Media_Source_Connected_Port_Text</b>	S	Text indicating the current Media Source Connected Port. See above for valid names.
<b>Media_Source_Active_Source_Fb</b>	A	Value indicating the current Media Source Active Source. Valid values are: 1 = HDMI 2 = DisplayPort
<b>Media_Source_Active_Source_Text</b>	S	Text indicating the current Media Source Active Source. See above for valid names.
<b>Media_Source_Resolution_Text</b>	S	Text indicating the current Media Source resolution.
<b>Media_Source_Framerate_Text</b>	S	Text indicating the current Media Source framerate.
<b>Embedded_Audio_Is_Present_X</b>	D	High to indicate the Embedded Audio of X type is present.
<b>Embedded_Audio_Threshold_Text</b>	S	Text indicating the current Embedded Audio threshold.

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**FEEDBACK:**

<b>Bandwidth_Max_Resolution_Text</b>	S	Text indicating the current Bandwidth Max Resolution information.
<b>Bandwidth_Min_Framerate_Text</b>	S	Text indicating the current Bandwidth Min Framerate information.
<b>Bandwidth_Max_Compression_Text</b>	S	Text indicating the current Bandwidth Max Compression information.
<b>Bandwidth_Max_Bandwidth_Text</b>	S	Text indicating the current Bandwidth Max Bandwidth information.
<b>Bandwidth_Required_Connection_Text</b>	S	Text indicating the current Bandwidth Required Connection information.
<b>Stream_Audio_Mute_Is_On</b>	D	High to indicate the Stream Audio Mute is on.
<b>Stream_Audio_Mute_Is_Off</b>	D	High to indicate the Stream Audio Mute is off.
<b>Stream_Video_Mute_Is_On</b>	D	High to indicate the Stream Video Mute is on.
<b>Stream_Video_Mute_Is_Off</b>	D	High to indicate the Stream Video Mute is off.
<b>Stream_Video_Freeze_Is_On</b>	D	High to indicate the Stream Video Freeze is on.
<b>Stream_Video_Freeze_Is_Off</b>	D	High to indicate the Stream Video Freeze is off.
<b>Stream_Resolution_Text</b>	S	Text indicating the current Stream Resolution information.
<b>Stream_Framerate_Text</b>	S	Text indicating the current Stream Framerate information.
<b>Stream_Bandwidth_Text</b>	S	Text indicating the current Stream Bandwidth information.
<b>Stream_Connection_Text</b>	S	Text indicating the current Stream Connection information.
<b>Is_Quarantined</b>	D	Signal is high to indicate that a component has failed to initialize because of configuration issues. The Command Processor will attempt to initialize the quarantined component again when a new connection has been established.

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	CP3: v 1.601.3935.27221
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.11.06
<b>CRES DB USED FOR TESTING:</b>	200.00.004.00
<b>DEVICE DATABASE:</b>	200.00.015.00
<b>SYMBOL LIBRARY USED FOR TESTING:</b>	1112
<b>SAMPLE PROGRAM:</b>	Biamp TesiraLUX v3.1 IP Demo
<b>REVISION HISTORY:</b>	v2.1 – Initial Release v2.2 – No modifications have been performed. v2.3 – internal tag audioMute changed to embeddedAudioMute. v3.0 – Added SIMPL# event callbacks. Reworked module Registration, and added Enable signal. v3.1 – Added quarantine functionality.