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

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Biamp Tesira AV Output Control v3.0
CATEGORY:	DSP
VERSION:	3.0
SUMMARY:	This module controls the Biamp TesiraLUX AV Output control points.
GENERAL NOTES:	Please note that control of the TesiraLUX OH-1 auxiliary audio outputs can be gained using existing Biamp Tesira v3.0 modules. Similarly, the routing of streams from TesiraLUX IDH-1's to TesiraLUX OH-1's is controlled with the existing Biamp Tesira Router v3.0 module.
CRESTRON HARDWARE REQUIRED:	3-series processor **only**
SETUP OF CRESTRON HARDWARE:	This module requires the Biamp Tesira Command Processor IP v3.0 or the Biamp Tesira Command Processor RS232 v3.0 modules in order to operate. Please read the help files associated with these modules.
VENDOR FIRMWARE:	Tesira Firmware - 3.5.0.32

PARAMETER:	
Instance_Tag	Instance_Tag is the unique name, for the control object, that was assigned inside the Biamp Tesira Programming. *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*
Command_Processor_ID	Setting to indicate the ID for the command processor that this module will register itself with.

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CONTROL:

Poll_AVOutput	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.
OutputMedia_TestPattern	A	Set the Output Media test pattern to be used. Valid values are: 1 = Off 2 = Color Bar 3 = Grid 4 = HDMI 4:2:0
Stream_AudioMute_On	D	Pulse to set Network Stream Audio Mute on.
Stream_AudioMute_Off	D	Pulse to set Network Stream Audio Mute off.
Stream_AudioMute_Toggle	D	Pulse to toggle the state of the Network Stream Audio Mute.
Stream_VideoMute_On	D	Pulse to set Network Stream Video Mute on.
Stream_VideoMute_Off	D	Pulse to set Network Stream Video Mute off.
Stream_VideoMute_Toggle	D	Pulse to toggle the state of the Network Stream Video Mute.
Stream_VideoFreeze_On	D	Pulse to set Network Stream Video Freeze on.
Stream_VideoFreeze_Off	D	Pulse to set Network Stream Video Freeze off.
Stream_VideoFreeze_Toggle	D	Pulse to toggle the state of the Network Stream Video Freeze.
Enable	D	Set High: Control Module Enabled. Set Low: Control Module Disabled. *Note: Use a **1** for normal operation.*

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FEEDBACK:

Signal	Type	Description
Is_Initialized	D	High to indicate the module has successfully received all required responses from its initializing queries.
OutputMedia_TestPattern_Fb	A	Value indicating the current Output Media Test Pattern. See above for valid values.
OutputMedia_TestPattern_Text	S	Text indicating the current Output Media Test Pattern. See above for valid names.
OutputMedia_Resolution_Text	S	Text indicating the current Output Media resolution.
OutputMedia_Framerate_Text	S	Text indicating the current Output Media framerate.
OutputMedia_Transition_Fb	A	Value indicating the current Output Media Transition. Valid values are: 1 = Freeze & Fade 2 = OSD 3 = Instant
OutputMedia_Transition_Text	S	Text indicating the current Output Media Transition. See above for valid names.
OutputMedia_OSDMessages_Fb	A	Value indicating the current Output Media OSD Messages. Valid values are: 1 = Off 2 = 5 Seconds 3 = 15 Seconds 4 = On
OutputMedia_OSDMessages_Text	S	Text indicating the current Output Media OSD Messages. See above for valid names.
OutputMedia_ConnectedPort_Fb	A	Value indicating the current Output Media Connected Port. Valid values are: 1 = None 2 = HDMI 3 = DisplayPort 4 = Both
OutputMedia_ConnectedPort_Text	S	Text indicating the current Output Media Connected Port. See above for valid names.

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OutputMedia_OutputFormatOption_Fb	A	Value indicating the current Output Media Output Format Option. Valid values are: 1 = EDIDPreferred 2 = 4096x2160p60 3 = 4096x2160p30 4 = 3840x2160p60 5 = 3840x2160p30 6 = 2560x1600p60 7 = 1920x1200p60 8 = 1920x1080p60 9 = 1920x1080p30 10 = 1280x720p60 11 = 800x600p60 12 = 4096x2160p50 13 = 4096x2160p25 14 = 3840x2160p50 15 = 3840x2160p25 16 = 2560x1600p50 17 = 1920x1200p50 18 = 1920x1080p50 19 = 1920x1080p25 20 = 1280x720p50 21 = 800x600p50 22 = 1280x800p60 23 = 1280x800p50
OutputMedia_OutputFormatOption_Text	S	Text indicating the current Output Media Output Format Option. See above for valid names.
EmbeddedAudio_Is_Present_X	D	High to indicate the Embedded Audio of X type is present.
EmbeddedAudio_Threshold_Text	S	Text indicating the current Embedded Audio threshold.
Stream_AudioMute_Is_On	D	High to indicate the Stream Audio Mute is on.
Stream_AudioMute_Is_Off	D	High to indicate the Stream Audio Mute is off.

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Stream_VideoMute_Is_On	D	High to indicate the Stream Video Mute is on.
Stream_VideoMute_Is_Off	D	High to indicate the Stream Video Mute is off.
Stream_VideoFreeze_Is_On	D	High to indicate the Stream Video Freeze is on.
Stream_VideoFreeze_Is_Off	D	High to indicate the Stream Video Freeze is off.
Stream_Resolution_Text	S	Text indicating the current Stream Resolution information.
Stream_Framerate_Text	S	Text indicating the current Stream Framerate information.
Stream_Bandwidth_Text	S	Text indicating the current Stream Bandwidth information.
Stream_Connection_Text	S	Text indicating the current Stream Connection information.

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TESTING:

OPS USED FOR TESTING:	CP3: v1.503.0016
SIMPL WINDOWS USED FOR TESTING:	4.09.04
CRES DB USED FOR TESTING:	66.06.003.00
DEVICE DATABASE:	92.00.002.00
SYMBOL LIBRARY USED FOR TESTING:	1055
SAMPLE PROGRAM:	Biamp TesiraLUX v3.0 IP Demo
REVISION HISTORY:	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.