

N-SERIES WINDOWING PROCESSOR CONTROL SOLUTIONS PROTOCOL

Introduction:

An SVSi system is comprised of encoders, decoders, and potentially other accessories including NVR recording solutions, window processing units, and audio-only end points. The system allows you to distribute HD Video and Audio across a gigabit Ethernet network. The encoders accept DVI-I sources including HDMI, DVI-D, DVI-A, VGA, Component through the use of passive adaptors, and analog audio utilizing a 3.5mm connection. The decoders have DVI-D video output ports and will support digital audio (with DVI to HDMI cable or adaptor). The N2221 and N2211 Decoders also have Stereo Analog audio output jacks available.

Each device is controllable via TCP/IP direct socket using the devices' I.P. addresses and **port 50002**. Port 50002 will only support a single connection at a time; all other connection attempts are rejected until the established connection is closed.

Commands can be sent one at a time, or as a group of commands separated by a CRLF. Any changes in output mode will cause all other commands to be ignored while output settings are changed. SVSi recommends establishing output resolution during system commissioning, and not during normal system operations.

Example of multiple commands: <Command1><CRLF><Command2<CRLF>.....<CommandX><CRLF>

This document does not describe controlling a SVSi windowing processor when utilizing a N8002 or N8001. For control of devices utilizing the Conductor Platform for control, please refer to the document here: http://svsiav.com/support/resources/programming-resources/.

Products this document applies to: Windowing Processors

Global Controls:						
Action	Command	Response	Example	Notes		
Change Presets	preset:x	Change Presets	preset:10	Changes between pre-saved layouts. Presets can recall streams, positioning, cropping, and other details for individual windows. Presets are created/managed through the web interface of the VWP120.		
Disable Audio	mute	Current Status	mute			
Disable Audio	mute	Current Status	mute			
Output:						
Action	Command	Response	Example	Notes		
Enable Audio Output	unmute	Current Status	unmute			
Change Audio Stream	seta: <stream></stream>	Current Status	seta:212			
Change Output Mode	modeset: <validresolution></validresolution>	Current Status	modeset:720p	Changes output resolution of the VWP120. All other changes sent in same command are ignored. Processor will go black while resetting.		

Pose	Supported Res	olutions for Modes	et Command:		
Maria	800x600			modeset:800x600	
Pool	1024x768			modeset:1024x768	
Page 1909	1360x768			modeset:1360x768	
### Part	1366x768			modeset:1366x768	
Miles	1600x1200			modeset:1600x1200	
Page	1680x1050			modeset:1680x1050	
Today	480p			modeset:480p	
Individual Window Controls: Action Nempire Seample Notice Notice A Command Seample A Command Seample	720p			modeset:720p	
Action	1080p 24hz			modeset:1080p_24hz	
Action Command Response Example Notes Notes All commands howers again of the command surposes below and workfold with with the 16th of demandation in processing states and earlier with the 16th of 25th of 2	1080p			modeset:1080p	
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Set Window Minority				d goes to 3. Window $1 = 0$, Window $4 = 3$. Values outside of the range 0-3 will generate an error. All
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Disable Windraw winoffs-windraws Current Status bordon.0 Enable Border bordon-cwindraws Current Status bordon.0 Disable Bunder bordon-cwindraws Current Status bordon.0 Set Bunder bordon-cwindraws Current Status bordon.0 Set Bunder Width stabout-cwindraws current Status setbond-2,2 Sets border to 2 pixels wide, top/bottom and left/right stabout-cwindraws color values. Set Bunder Color stabout-cwindraws color values. Status: Action Command Response Example Notes Get Current Status getStatus getStatus Current Status getStatus. SUNTY DA SERNAL NUMBER SYS_LWP120-KUNTSERNALS White Sets Sets Source Sets Supported. Utte values or traditional keywords color values. SYS_LWP120-KUNTSERNALS White Sets Sets Sets Sets Supported. Utte values or traditional keywords color values. SYS_LWP120-KUNTSERNALS White Sets Sets Sets Sets Supported. Utte values or traditional keywords color values. SYS_LWP120-KUNTSERNALS White Sets Sets Sets Sets Supported. Utte values or traditional keywords color values. SYS_LWP120-KUNTSERNALS White Sets Sets Sets Sets Sets Sets Sets Se	Set Window Priority	Setz: <window>:1-4</window>	Current Status	set:0:4	4 is the highest, 1 is the lowest
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	MEDIASRC:				
W0Stream: Current Video Stream for Window 1	MEDIASRC: AUDIOSTATE:			0 – Disabled 1 – Enabled	
	MEDIASRC: AUDIOSTATE: OUTSTREAM:			0 – Disabled 1 – Enabled Output Stream Number	

getStatus Returns:				
W1Stream:	Current Video Stream for Window 2			
W2Stream:	Current Video Stream for Window 3			
W3Stream::	Current Video Stream for Window 4			
DIVASEN:	0 – Not Conductor Enabled 1 – Conductor Enabled			
DIVASIP:	IP address of VDC108 or VDC208 communicating with			
VIDEOMODE:	Current Resolution.mode (IE 720p.mode)			

Additional Notes:

Additional information about the status of the N-Series Windowing Processor that is not part of the current status response packet is available at http://<IPADDRESS>/wpGetParams.php. This XML document can be imported and parsed and includes current status for: border on/off, window enabled/disabled and more. This XML document is another useful location to get the current status of the N-Series Windowing Processor.



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