



# tvONE CORIOmaster Commands

## Command-line Options

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System API version 4.7 or above  
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## Constraints

Note that although the tvONE system supports connections via both serial (RS-232) and Ethernet protocols, at no point does it support both connections CONCURRENTLY. The unit must be connected to just one controlling PC at any given time.

### Default communications settings

#### *Serial connection (RS-232)*

Speed (baud) 115200

Data bits 8

Stop bits 1

Parity None

Flow control None

#### *Ethernet Connection*

IP Address 192.168.0.10

Port 10001

Subnet mask 255.255.255.0

IP Gateway 192.168.0.1

## Legend

Property Name	Syntax	Type	Example	Description
Name	Command	Type	Example	Description. Used for commands that are common across all CORIOmax products.

The table fields contain the following information:

Property Name the name of the command.

Syntax the full syntax structure of the command.

Type the type of the value for use with this command. Note that where the options are complex the possible values are described in the Custom Types section on page 196 below.

Example is an example of the command in use.

Description a brief description of the command.

## Top level Commands

### Methods

Command	Syntax	Type	Example	Description
Login	Login(<username>,<password>)	Void	login(admin,adminpw) !Info : User admin Logged In	Log on to the device with the supplied username and password. For more information on the usernames and passwords see the section System Security Commands on page 22 below.
Logout	Logout	Void	logout !Info : User system.security.Admin_Username Logged Out // logout	Log out the current user.
StartBatch	StartBatch	Void	StartBatch !Done StartBatch	Group a number of write commands together so that they will be operated on at the same time. The effect of the commands will not be processed until the EndBatch command is received. Note that read commands will always be processed immediately.
EndBatch	EndBatch	Void	EndBatch !Done EndBatch	Execute the commands entered since the last StartBatch command.

### Properties

Command	Syntax	Type	Example	Description
Namespaces	Namespaces	List	Namespaces  Aliases Slots Routing.Canvases	List the commands that may be omitted and the sub-command used directly. For example you may use either Slots.Slot1 or just Slot1.

			Routing.Windows Routing.Layouts Routing.MonitorViews Resources // Namespaces	
Root	Root	List	Root CORIOmax System Test Aliases Resources Slots Routing !Done Root	List the root-level of commands. Each of these is the basis of a further group of commands, described in this document.



## CORIOmax Commands

### Properties

Property Name	Syntax	Type	Example	Description
CORIOmax	CORIOmax	List	<pre> CORIOmax.Model_Name = CORIOmaster CORIOmax.Model_Number = C3-540 CORIOmax.Serial_Number = 2218031005149 CORIOmax.Backplane_Number = 0000000000000 CORIOmax.Software_Name = CORIOmaster CORIOmax.Software_Version = V1.30701.P4 Master CORIOmax.RebootToMaster() CORIOmax.Software_Date = Apr 15 2015 15:22:10 CORIOmax.Software_Update() CORIOmax.Backplane_Type = 1 !Done CORIOmax </pre>	List all of the CORIOmax commands and display the values of the properties.
Model_Name	CORIOmax.Model_Name	String	<pre> CORIOmax.Model_Name = CORIOmaster !Done CORIOmax.Model_Name </pre>	Read-only. Get the model name for the device. e.g. CORIOmaster or CORIOmatrix mini
Model_Number	CORIOmax.Model_Number	String	<pre> CORIOmax.Model_Number = C3-540 !Done CORIOmax.Model_Number </pre>	Read-only. Get the model number for the device. e.g. C3-540 or C3-310
Serial_Number	CORIOmax.Serial_Number	Integer	<pre> CORIOmax.Serial_Number = 2218031005149 !Done CORIOmax.Serial_Number </pre>	Read-only. Get the serial number for the device
Backplane_Number	CORIOmax.Backplane_Number	Integer	<pre> CORIOmax.Backplane_Number = 0000000000000 </pre>	Read-only. Get the serial number for the Backplane

Property Name	Syntax	Type	Example	Description
			!Done CORIOmax.Backplane_Number	
Software_Name	CORIOmax.Software_Name	String	CORIOmax.Software_Name = CORIOmaster !Done CORIOmax.Software_Name	Read-only. Get the name of the current firmware. e.g. CORIOmaster or CORIOmatrix
Software_Version	CORIOmax.Software_Version	String	CORIOmax.Software_Version = V1.30701.P4 Master !Done CORIOmax.Software_Version	Read-only. Get the version of the current firmware
Software_Date	CORIOmax.Software_Date	String	CORIOmax.Software_Date = Apr 15 2015 15:22:10 !Done CORIOmax.Software_Date	Read-only. Shows the date the software was compiled.
Backplane_Type	CORIOmax.BackPlane_Type	BackplaneType	CORIOmax.BackPlane_Type = 1 !Done CORIOmax.BackPlane_Type	Deprecated. Read only.

## Methods

Method Name	Syntax	Type	Example	Description
Software_Update	CORIOmax.Software_Update()	Void	Software_Update() !Done Software_Update	Initiate the firmware update process. This command assumes that the new firmware package has been copied to the SD Card first.
MediaCard_Update	CORIOmax.MediaCard_Update( )	Void	CORIOmax.MediaCard_Update() // Starting Media Card Update ... please wait-> Slots.Slot1.Status ..... // Update package copied successfully. // Files copied successfully. !Info : Rebooting...	(streaming media and 4k playback input module only) Update CPU firmware on streaming media and 4k playback card, and reboot. This command assumes that the new CPU firmware package has been copied to the SD Card first. Note: Any USB drive must be disconnected.

## System Commands

### Properties

Command	Syntax	Type	Example	Description
System	System	List	<pre>System.Comms = &lt;...&gt; System.Constraints = &lt;...&gt; System.Temperature_Control = &lt;No Value&gt; System.Security = &lt;...&gt; System.Menus = &lt;...&gt; System.Reset() System.SaveAllSettings() System.RestoreAll() System.ClearSavedSettings() System.ConfigName = Configuration System.BackupToSDCard() System.RestoreBackup() System.HDCPPrintTable() System.WPrstSeqNum = 0 System.HDCPClearKeyFile() System.HDCP_Status = R System.HDCP_Debug = Off System.Status = Serving System.API_Version = 3.1.4386 System.Unit_Description = "Paul Hounslow's CORIOmaster" System.Messages = &lt;...&gt; System.Synclock_Inhibit = Off !Done System</pre>	List all of the System commands and display the values of the properties
Comms	System.Comms	List	<pre>System.Comms.RS232 = &lt;...&gt; System.Comms.Ethernet = &lt;...&gt; System.Comms.USB = &lt;...&gt; !Done System.Comms</pre>	List all of the communication properties. See System Communications Commands on page 16 below.

Command	Syntax	Type	Example	Description
Constraints	System.Constraints	List	<pre>System.Constraints.MaxInputs = 18 System.Constraints.MaxOutputs = 20 System.Constraints.MaxWindows = 36 System.Constraints.MaxCanvases = 4 System.Constraints.MaxLayouts = 4 System.Constraints.MaxScalerPanels = 20 System.Constraints.MaxPVWindows = 16 !Done system.Constraints</pre>	List all of the constraints of the device See System Constraints Commands on page 21 below.
Temperature_Control	System.Temperature_Control	List	<pre>System.Temperature_Control.Temperature Readings() System.Temperature_Control.FanSpeed = 7000 !Done system.Temperature_Control</pre>	See System Temperature Control Commands below.
Security	System.Security	List	<pre>System.Security.User1_Username = user1 System.Security.User1_Password = &lt;Restricted&gt; System.Security.User1_Timeout = 300 System.Security.User1_Role = PowerUser System.Security.User2_Username = user2 System.Security.User2_Password = &lt;Restricted&gt; System.Security.User2_Timeout = 300 System.Security.User2_Role = User System.Security.User3_Username = user3 System.Security.User3_Password = &lt;Restricted&gt; System.Security.User3_Timeout = 300 System.Security.User3_Role = User System.Security.User4_Username = user4 System.Security.User4_Password = &lt;Restricted&gt;</pre>	List all of the security settings of the device. See System Security Commands on page 22 below.

Command	Syntax	Type	Example	Description
			<pre>System.Security.User4_Timeout = 300 System.Security.User4_Role = User System.Security.Admin_Username = admin System.Security.Admin_Password = &lt;Restricted&gt; System.Security.Admin_Timeout = 300 System.Security.Admin_Role = Administrator System.Security.Test_Username = test System.Security.Test_Password = &lt;Restricted&gt; System.Security.Test_Timeout = 14400 System.Security.Test_Role = Test !Done System.Security</pre>	
Menus	System.Menus	List	<pre>System.Menus.Titles() System.Menus.XML() System.Menus.Details() !Done System.Menus</pre>	Serialise the menu out as text.
ConfigName	System.ConfigName	String	<pre>System.ConfigName = Configuration !Done System.ConfigName</pre>	Get or set the configuration name of the live system (the configuration name is a string of up to 32 characters currently without spaces). See Resources Configuration Commands on page 43 below.
WPrstSeqNum	System.WPrstSeqNum	Integer	<pre>System.WPrstSeqNum = 0 !Done System.WPrstSeqNum</pre>	Read only. Number of Routing.Preset.RestoreRead() commands executed since power on.

Command	Syntax	Type	Example	Description
HDCP_Debug	System.HDCP_Debug	Boolean	System.HDCP_Debug = Off !Done System.HDCP_Debug	Enable the diagnostics for the HDCP system. The output is to be captured and submitted to Tech Support for diagnosis.
Status	System.Status	SystemStatus	System.Status = Serving !Done System.Status	Read only. Get the status of the device.
ModuleUpdateStatus	System.ModuleUpdateStatus	Enum	System.ModuleUpdateStatus = Ready !Done System.ModuleUpdateStatus	Display the module update status. Valid values are "Booting", "Updating", "Ready", "UpdateFailed".
API_Version	System.API_Version	String	System.API_Version = 3.1.4386 !Done System.API_Version	Read only. The version number of this API.
Unit_Description	System.Unit_Description	String	System.Unit_Description = "My CORIOmaster" !Done System.Unit_Description	Get or set the Device Name. The device name may be no more than 32 characters in length but may contain any ASCII Extended characters including spaces (as long as string is in quotes). The value is always returned in quotes. It may be set empty by providing no characters after the "=".
Messages	System.Messages	List	System.Messages.First_Boot = No !Done System.Messages	Read only. Used by CORIOgrapher software to determine whether to return first-boot UI features. Defaults to "Yes" until System.SaveAllSettings() has been used the first time; then returns "No".
Messages.First_Boot	System.Messages.First_Boot	Boolean	System.Messages.First_Boot = No !Done System.Messages.First_Boot	
Synclock_Inhibit	System.Synclock_Inhibit	Boolean	System.Synclock_Inhibit = Off !Done System.Synclock_Inhibit = Off	Disables the Synclock automatic display synchronisation.
Preset_Easing	System.Preset_Easing	Boolean	System.Preset_Easing = On !Done System.Preset_Easing	Enables key frame easing. Valid values are "Off", "On".

## Methods

Method Name	Syntax	Type	Example	Description
Reset	System.Reset()	Void	!Info: Rebooting...	Reboot the device.
SaveAllSettings	System.SaveAllSettings()	Void	//Saving settings ... //Settings saved !Done System.SaveAllSettings()	Save the current configuration to persistent memory. The device will keep these settings after a reboot.
SaveSystemSettings	System.SaveSystemSettings()	Void	!Done System.SaveSystemSettings()	Save the current "CORIOmax", "System" configuration.
SaveResources	System.SaveResources()	Void	!Done System.SaveResources()	Save the current "Resources.TPG", "Resources.Resolutions", "Resources.IP_Streams" configuration.
SaveFrontPanel	System. SaveFrontPanel()	Void	//Saving settings ... //Settings saved !Done System.SaveFrontPanel()	Save the settings related to front panel operation only. This is only supported on the CORIOmaster micro.
SaveLiveConfig	System.SaveLiveConfig()	Void	!Done System.SaveLiveConfig()	Save the current "System.ConfigName", "System.Messages.SavedAPI", "Aliases", "Routing", "Slots" configuration.
RestoreAll	System.RestoreAll()	Void	//Loading settings ... //Settings loaded !Done System.RestoreAll()	Restore all settings Note that this command is only available from Administrator account.
ClearSavedSettings	System.ClearSavedSettings()	Void	!Done System.ClearSavedSettings()	Clear all saved settings Note that this command is only available from the Administrator account.

Method Name	Syntax	Type	Example	Description
ClearLiveConfig	System.ClearLiveConfig()	Void	!Done System.ClearLiveConfig()	Clear settings saved by "SaveLiveConfig".
ClearSavedIPStreams	System.ClearSavedIPStreams() ()	Void	!Done System.ClearSavedIPStreams()	Clear "Resources.IP_Streams" settings.
ClearSavedPlaylists	System.ClearSavedPlaylists()	Void	!Done System.ClearSavedPlaylists()	Clear all saved playlists.
BackupToSDCard	System.BackupToSDCard()	Void	//Backup: File delete: ... ... //Backup: File copy:... ... //Backup: Complete !Done System.backupToSDCard()	Backup settings (including presets) to SD card.
RestoreBackup	System.RestoreBackup()	Void	// Restore: File delete: ... ... // Restore: File copy: ... ... //Restore: Complete !Done System.RestoreBackup()	Restore settings from SD card Note that this command is only available from the Administrator account.
HDCPPrintTable	System.HDCPPrintTable()	Table	system.HDCPPrintTable() [nn] Bksv   cn  sl   ch   age  dp   ip flags [00]89 38 AE 0D ED   Y   0F   01   01   00   00000000 00000000 00000000 00000000 !Done system.HDCPPrintTable()	For diagnostic use. Prints the cache of HDCP keys.
HDCPClearKeyFile	System.HDCPClearKeyFile()	Void	!Done System.HDCPClearKeyFile()	Clears the internal cache of HDCP keys.



## System Communications Commands

### Properties

Command	Syntax	Type	Example	Description
Comms	System.Comms	List	System.Comms.RS232 = <...> System.Comms.Ethernet = <...> System.Comms.USB = <...> !Done System.Comms	List all of the communication properties
RS232	System.Comms.RS232	List	System.Comms.RS232.Baudrate = 115200 System.Comms.RS232.RS422_Mode = Off !Done System.Comms.RS232	List the current RS232 settings
RS232.Baudrate	System.Comms.RS232.Baudrate	Integer	System.Comms.RS232.Baudrate = 115200 !Done System.Comms.RS232.Baudrate	Get or set the baud rate to use. <b>Warning changing this setting may result in loss of communication to the device!</b>
RS232.RS422_Mode	System.Comms.RS232.RS422_Mode	Boolean	System.Comms.RS232.RS422_Mode = Off !Done System.Comms.RS232.RS422_Mode	Get or set RS422 mode.

Command	Syntax	Type	Example	Description
Ethernet	System.Comms.Ethernet	List	<pre>System.Comms.Ethernet.Enabled = On System.Comms.Ethernet.MAC_Address = 00:16:9e:d7:00:10 System.Comms.Ethernet.DHCP = &lt;...&gt; System.Comms.Ethernet.IP_Address = 172.16.1.100 System.Comms.Ethernet.IP_Subnet_Mask = 255.255.255.0 System.Comms.Ethernet.IP_Gateway = 172.16.0.1 System.Comms.Ethernet.Command_Port = 10001 System.Comms.Ethernet.RestartEthernet() System.Comms.Ethernet.Webserver_Enabled = On !Done System.Comms.Ethernet</pre>	<p>List the current Ethernet settings. Note that any changes will not take effect until the Ethernet is restarted (either with the command <code>System.Comms.Ethernet.RestartEthernet()</code> or by saving the settings and restarting the device.</p> <p><b>Warning: changing the settings may result in a loss of communication with the device.</b></p>
Ethernet.Enabled	System.Comms.Ethernet.Enabled	Boolean	<pre>System.Comms.Ethernet.Enabled = On !Done System.Comms.Ethernet.Enabled</pre>	<p>Get or set if Ethernet communications are enabled. This setting will only take effect after restarting the Ethernet or saving the settings and rebooting.</p> <p><b>Warning: turning the Ethernet Off when connected via the Ethernet will result in a loss of communication with the device!</b></p>
Ethernet.MAC_Address	System.Comms.Ethernet.MAC_Address	String	<pre>System.Comms.Ethernet.MAC_Address = 00:16:9e:d7:00:10 !Done System.Comms.Ethernet.MAC_Address</pre>	<p>Read-only. Get the current Ethernet MAC address.</p>

Command	Syntax	Type	Example	Description
Ethernet.DHCP	System.Comms.Ethernet.DHCP	List	System.Comms.Ethernet.DHCP.Enabled = On System.Comms.Ethernet.DHCP.IP_Address = 172.16.1.100 System.Comms.Ethernet.DHCP.IP_Subnet_Mask = 255.255.255.0 System.Comms.Ethernet.DHCP.IP_Gateway = 172.16.0.1	List the current Ethernet DHCP settings.
Ethernet.DHCP.Enabled	System.Comms.Ethernet.DHCP.Enabled	Boolean	System.Comms.Ethernet.DHCP.Enabled = On !Done System.Comms.Ethernet.DHCP.Enabled	Get or set if DHCP mode is to be used for the Ethernet settings. Note that when enabled the settings in System.Comms.Ethernet.IP_Address, System.Comms.Ethernet.IP_Subnet_Mask and System.Comms.Ethernet.IP_Gateway are ignored.
Ethernet.DHCP.IP_Address	System.Comms.Ethernet.DHCP.IP_Address	String	System.Comms.Ethernet.DHCP.IP_Address System.Comms.Ethernet.DHCP.IP_Address = 172.16.1.100	Read only. Get the current Ethernet Address.
Ethernet.DHCP.IP_Subnet_Mask	System.Comms.Ethernet.DHCP.IP_Subnet_Mask	String	System.Comms.Ethernet.DHCP.IP_Subnet_Mask = 255.255.255.0 !Done System.Comms.Ethernet.DHCP.IP_Subnet_Mask	Read only. Get the current Subnet mask.
Ethernet.DHCP.IP_Gateway	System.Comms.Ethernet.DHCP.IP_Gateway	String	System.Comms.Ethernet.DHCP.IP_Gateway = 172.16.0.1 !Done System.Comms.Ethernet.DHCP.IP_Gateway	Read only. Get the current Ethernet gateway.

Command	Syntax	Type	Example	Description
Ethernet.IP_Address	System.Comms.Ethernet.IP_Address	String	System.Comms.Ethernet.IP_Address = 172.16.1.100 !Done System.Comms.Ethernet.IP_Address	Get or set the current Ethernet address. This setting will only take effect after restarting the Ethernet or saving the settings and rebooting. Note that if DHCP is enabled this is overridden by the settings in System.Comms.Ethernet.DHCP. <b>Warning changing this setting may result in a loss of communication with the device.</b>
Ethernet.IP_Subnet_Mask	System.Comms.Ethernet.IP_Subnet_Mask	String	System.Comms.Ethernet.IP_Subnet_Mask = 255.255.255.0 !Done System.Comms.Ethernet.IP_Subnet_Mask	Get or set the current Subnet mask. This setting will only take effect after restarting the Ethernet or saving the settings and rebooting. Note that if DHCP is enabled this is overridden by the settings in System.Comms.Ethernet.DHCP. <b>Warning changing this setting may result in a loss of communication with the device.</b>
Ethernet.IP_Gateway	System.Comms.Ethernet.IP_Gateway	String	System.Comms.Ethernet.IP_Gateway = 172.16.0.1 !Done System.Comms.Ethernet.IP_Gateway	Get or set the current Ethernet gateway. This setting will only take effect after restarting the Ethernet or saving the settings and rebooting. Note that if DHCP is enabled this is overridden by the settings in System.Comms.Ethernet.DHCP.

Command	Syntax	Type	Example	Description
Ethernet.Command_Port	System.Comms.Ethernet.Command_Port	Integer	System.Comms.Ethernet.Command_Port = 10001 !Done System.Comms.Ethernet.Command_Port	Get or set the current Ethernet port. This setting will only take effect after restarting the Ethernet or saving the settings and rebooting.
USB.MSD_Enabled	System.Comms.USB.MSD_Enabled	Boolean	System.Comms.USB.MSD_Enabled = On !Done System.Comms.USB.MSD_Enabled	Get or set if the USB Mass Storage Device is enabled. The USB MSD is used when a PC connects to the device with a USB cable. This setting will only take effect after saving the settings and rebooting.

## Methods

Method Name	Syntax	Type	Example	Description
Ethernet.RestartEthernet	System.Comms.Ethernet.RestartEthernet()	Void	System.Comms.Ethernet.RestartEthernet() !Done System.Comms.Ethernet.RestartEthernet()	Updates the Ethernet to use the current settings. <b>Warning: changing the Ethernet settings may result in a loss of communication with the device!</b>

## System Constraints Commands

For use with CORIOmaster only.

### Properties

Command	Syntax	Type	Example	Description
MaxInputs	System.Constraints.MaxInputs	Integer	System.Constraints.MaxInputs = 18 !Done System.Constraints.MaxInputs	Read only. Get the maximum number of input channels supported by the device.
MaxOutputs	System.Constraints.MaxOutputs	Integer	System.Constraints.MaxOutputs System.Constraints.MaxOutputs = 20	Read only. Get the maximum number of output channels supported by the device.
MaxWindows	System.Constraints.MaxWindows	Integer	System.Constraints.MaxWindows = 36 !Done System.Constraints.MaxWindows	Read only. Get the maximum number of windows supported by the device..
MaxCanvases	System.Constraints.MaxCanvases	Integer	System.Constraints.MaxCanvases = 4 !Done System.Constraints.MaxCanvases	Read only. Get the maximum number of canvases supported by the device.
MaxLayouts	System.Constraints.MaxLayouts	Integer	System.Constraints.MaxLayouts = 4 !Done System.Constraints.MaxLayouts	Read only. Get the maximum number of layouts supported by the device.
MaxScalerPanels	System.constraints.MaxScalerPanels	Integer	System.constraints.MaxScalerPanels System.constraints.MaxScalerPanels = 20	Read only. Get the maximum number of scaler panels available.
MaxPVWindows	System.Constraints.MaxPVWindows	Integer	System.Constraints.MaxPVWindows = 16 !Done System.Constraints.MaxPVWindows	Read only. Get the maximum number of preview quality windows supported by the device.

## System Temperature Control Commands

Command	Syntax	Type	Example	Description
TemperatureReadings()	System.Temperature_Control.TemperatureReadings()	Array		Lists the temperature, in degrees celsius, of the four temperature sensors on the back plane.
FanSpeed	System.Temperature_Control.FanSpeed	Integer	System.Temperature_Control.FanSpeed = 7000	Set the speed of the system cooling fans to a speed between approximately 3000 and 7000 rpm

## System Security Commands

### Properties

Command	Syntax	Type	Example	Description
User1_Username	System.Security.User1_Username	String	System.Security.User1_Username = user1 !Done System.Security.User1_Username	Get or set the account username. The default is <b>"user1"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.
User1_Password	System.Security.User1_Password	String	System.Security.User1_Password = user1pw System.Security.User1_Password= <Restricted> !Done System.Security.User1_Password = user1pw	Write only. Set the account password. The default is <b>"user1pw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.
User1_Timeout	System.Security.User1_Timeout	Integer	System.Security.User1_Timeout = 300 !Done System.Security.User1_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default is 300 (5 minutes). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 60 and 300 are not used.</b>



Command	Syntax	Type	Example	Description
User1_Role	System.Security.User1_Role	Role	System.Security.User1_Role = PowerUser !Done System.Security.User1_Role	Get or set the account role. The default is <b>"PowerUser"</b> . Note that the role may only be changed by an Administrator.
User2_Username	System.Security.User2_Username	String	System.Security.User2_Username = user2 !Done System.Security.User2_Username	Get or set the account username. The default is <b>"User"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.
User2_Password	System.Security.User2_Password	String	System.Security.User2_Password = user2pw System.Security.User2_Password = <Restricted> !Done System.Security.User2_Password = user2pw	Write only. Set the account password. The default password is <b>"user2pw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.
User2_Timeout	System.Security.User2_Timeout	Integer	System.Security.User2_Timeout = 300 !Done System.Security.User2_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default timeout is 300 seconds (5 minutes). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 1 and 300 are not used.</b>

Command	Syntax	Type	Example	Description
User2_Role	System.Security.User2_Role	Role	System.Security.User2_Role = User !Done System.Security.User2_Role	Get or set the account role. The default role is <b>"User"</b> . Note that the role may only be changed by an Administrator.
User3_Username	System.Security.User3_Username	String	System.Security.User3_Username = user3 !Done System.Security.User3_Username	Get or set the account username. The default is <b>"User"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.
User3_Password	System.Security.User3_Password	String	System.Security.User3_Password = user3pw System.Security.User3_Password = <Restricted> !Done System.Security.User3_Password = user3pw	Write only. Set the account password. The default password is <b>"user3pw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.
User3_Timeout	System.Security.User3_Timeout	Integer	System.Security.User3_Timeout = 300 !Done System.Security.User3_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default timeout is 300 seconds (5 minutes). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 1 and 300 are not used.</b>

Command	Syntax	Type	Example	Description
User3_Role	System.Security.User3_Role	Role	System.Security.User3_Role = User !Done System.Security.User3_Role	Get or set the account role. The default role is <b>"User"</b> . Note that the role may only be changed by an Administrator.
User4_Username	System.Security.User4_Username	String	System.Security.User4_Username = user4 !Done System.Security.User4_Username	Get or set the account username. The default is <b>"User"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.
User4_Password	System.Security.User4_Password	String	System.Security.User4_Password = user4pw System.Security.User4_Password = <Restricted> !Done System.Security.User4_Password = user3pw	Write only. Set the account password. The default password is <b>"user4pw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.
User4_Timeout	System.Security.User4_Timeout	Integer	System.Security.User3_Timeout = 300 !Done System.Security.User3_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default timeout is 300 seconds (5 minutes). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 1 and 300 are not used.</b>

Command	Syntax	Type	Example	Description
User4_Role	System.Security.User4_Role	Role	System.Security.User3_Role = User !Done System.Security.User3_Role	Get or set the account role. The default role is <b>"User"</b> . Note that the role may only be changed by an Administrator.
Admin_Username	System.Security.Admin_Username	String	System.Security.Admin_Username = admin !Done System.Security.Admin_Username	Get or set the account username. The default is <b>"admin"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.
Admin_Password	System.Security.Admin_Password	String	System.Security.Admin_Password = adminpw System.Security.Admin_Password = <Restricted> !Done System.Security.Admin_Password = adminpw	Write only. Set the account password. The default password is <b>"adminpw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.

Command	Syntax	Type	Example	Description
Admin_Timeout	System.Security.Admin_Timeout	Integer	System.Security.Admin_Timeout = 300 !Done System.Security.Admin_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default timeout is 300 seconds (5 minutes) and the maximum is 32767 seconds (about 9 hours). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 1 and 300 are not used.</b>
Admin_Role	System.Security.Admin_Role	Role	System.Security.Admin_Role = Administrator !Done System.Security.Admin_Role	Get or set the account role. The default role is <b>"Administrator"</b> . Note that the role may only be changed by an Administrator.
Test_Username	System.Security.Test_Username	String	System.Security.Test_Username = test !Done System.Security.Test_Username	Get or set the account username. The default is <b>"test"</b> . Note that a PowerUser may change their own account Username while an Administrator may change other account Usernames.

Command	Syntax	Type	Example	Description
Test_Password	System.Security.Test_Password	String	System.Security.Test_Password = testpw System.Security.Test_Password = <Restricted> !Done System.Security.Test_Password = testpw	Write only. Set the account password. The default password is <b>"testpw"</b> . Note that a PowerUser may change their own account password while an Administrator may change the passwords for other accounts.
Test_Timeout	System.Security.Test_Timeout	Integer	System.Security.Test_Timeout = 14400 !Done System.Security.Test_Timeout	Get or set the account timeout in seconds. The account will be automatically logged out when the timeout expires. The default timeout is 14400 seconds (4 hours) and the maximum is 32767 seconds (about 9 hours). Setting the timeout to 0 disables the timeout (infinite). <b>Warning it is possible to set the timeout value so low that the system is unusable, it is recommended that values between 1 and 300 are not used.</b>
Test_Role	System.Security.Test_Role	Role	System.Security.Test_Role = Test !Done System.Security.Test_Role	Get or set the account role. The default role is <b>"Test"</b> . Note that the role may only be changed by an Administrator.

## System Security Certificates Commands

For use with CORIOmaster only.

Note, if you do not have a CPU that supports HTTPS connections, this menu will not be available.

### Properties

Command	Syntax	Type	Example	Description
Name	System.Security.Certificates.Current.Name	String	System.Security.Certificates.Current.Name = Test	Read only. Displays the common name of the current certificate.
StartDate	System.Security.Certificates.Current.StartDate	String	System.Security.Certificates.Current.StartDate = 2018.12.13 16:42:10	Read only. Displays the start date of the current certificate.
ExpiryDate	System.Security.Certificates.Current.ExpiryDate	String	System.Security.Certificates.Current.StartDate = 2023.12.13 16:42:10	Read only. Displays the expiry date of the current certificate.

## System Security User Commands

For use with CORIOmaster only.

Note, if you do not have a CPU that supports HTTPS connections, this menu will not be available.

### Properties

Command	Syntax	Type	Example	Description
Name	System.Security.Certificates.User.Name	String	System.Security.Certificates.User.Name = Test	Read only. Displays the common name of the current certificate.
StartDate	System.Security.Certificates.User.StartDate	String	System.Security.Certificates.User.StartDate = 2018.12.13 16:42:10	Read only. Displays the start date of the current certificate.
ExpiryDate	System.Security.Certificates.User.ExpiryDate	String	System.Security.Certificates.User.ExpiryDate= 2023.12.13 16:42:10	Read only. Displays the expiry date of the current certificate.
TransferPassword	System.Security.Certificates.User.TransferPassword	String	System.Security.Certificates.User.TransferPassword = \$A5Gfw~tmmw%A3J]:5uCTx=I1zZ=@!w	TransferPassword generates a unique 32 character password ( as ASCII characters ) This password is stored in the system. The password is used by the CORIOgrapher to encrypt the certificate file



Command	Syntax	Type	Example	Description
Enabled	System.Security.Certificates.User.Enabled	String	System.Security.Certificates.User.Enabled = Off	Setting this to ON will remove the default dynamic certificate and use the user certificate  This will only apply if a valid user certificate is uploaded  Reboot is required for change to apply
UpdateCert()	System.Security.Certificates.User.UpdateCert()	Void	System.Security.Certificates.User.UpdateCert()	Command to start the updating of a user certificate. Only supported through CORIOgrapher. Do not attempt this outside CORIOgrapher.
DeleteCert()	System.Security.Certificates.User.DeleteCert()	Void	System.Security.Certificates.User.DeleteCert()	Command to delete the current user certificate

## Events

Category	Event	Syntax	Example	Description
SECURITY	USERCERT_UPDATE_DECRYPTED_GROUP	USERCERT_UPDATE_DECRYPTED_GROUP, <value>	!Event USERCERT_UPDATE_DECRYPTED_GROUP,OK	Raised when the decrypt phase of a user certificate is completed Value; OK   Fail
SECURITY	USERCERT_UPDATE_PARSE	USERCERT_UPDATE_PARSE	!Event USERCERT_UPDATE_PARSE,OK	Raised when the parse phase of a user certificate is completed Value; OK   Fail
SECURITY	USERCERT_UPDATE_VALIDATION	USERCERT_UPDATE_VALIDATION, <value>	!Event USERCERT_UPDATE_VALIDATION,OK	Raised when the validation phase of a user certificate is completed Value; OK   Fail

Category	Event	Syntax	Example	Description
SECURITY	USERCERT_UPDATE_COMPLETE	USERCERT_UPDATE_COMPLETE, <value>	!Event USERCERT_UPDATE_COMPLETE, UPDATECOMPLETE	<p>Raised when a user certificate update has been completed</p> <p>Values; UPDATECOMPLETE   &lt;others&gt;</p> <p>UPDATECOMPLETE signifies success, all other responses indicate failure, contact tvONE Support for assistance.</p>

## System Time Commands

For use with CORIOmaster only.

Note, if you do not have a CPU that supports HTTPS connections, this menu will not be available.

### Properties

Command	Syntax	Type	Example	Description
CurrentTime	System.Time.CurrentTime	String	System.Time.CurrentTime = "2018/12/13 16:54:00"	Can be used to set and read the current system time Format : YYYY/MM/DD hh:mm:ss  Note there is no automatic correction for daylight savings.
LastSetTime	System.Time.LastSetTime	String	System.Time.LastSetTime = "2018/12/13 16:54:00"	Read only. Displays the last time value used to set the clock
CurrentTimeValid	System.Time.CurrentTimeValid	String	System.Time.CurrentTimeValid = Yes	Read Only. Indicates whether the system believes the time to be valid or not Values; Yes   No
NTP.IPAddress	System.Time.NTP.IPAddress	String	System.Time.NTP.IPAddress = 216.239.35.8	Can be used to point to an NTP server so the system sets the correct time on boot up, and periodically thereafter. Default, 216.239.35.8 (time.google.com) which needs an external network connection.

## System Menu Commands

Command	Syntax	Type	Example	Description
Titles()	System.Menus.Titles()	Strings	CORIOmax ... !Done System.Menus.Titles()	Serialise the menu in the form of a list.
XML()	System.Menus.XML()	Strings		Not implemented.
Details()	System.Menus.Details()	Strings		Not implemented.

## Event Commands

The event mechanism allows you to subscribe to be notified of asynchronous events generated by the system. Once subscribed, events are returned as they occur in the format :

!Event <eventCategory>, <event>, <optional text>

For details on specific event categories, please refer to the Events sections for each module where available.

### Methods

Command	Syntax	Type	Example	Description
AddEvents	AddEvents(<eventCategory>)	void	AddEvents(HDMI) !Done AddEvents(HDMI)  <i>Example event</i> !Event HDMI,SINK_ATTACHED, s15.o1	Add a category of events to the communication channel. Events from this category will be sent asynchronously as separate messages.
RemoveEvents	RemoveEvents(<eventCategory>)	void	RemoveEvents(HDMI) !Done RemoveEvents(HDMI)	Remove a category of events from the communication channel. Events from this category will stop being sent asynchronously as separate messages.
ListEvents	ListEvents()	void	ListEvents() HDMI !Done ListEvents()	List all the event categories that have currently been added to the current communication channel

ListAllEvents	ListAllEvents(<eventcategory>)	Void	<p>ListAllEvents()          MEDIA_STORAGE,USB_HOTPLUG_ARRIVED          MEDIA_STORAGE,USB_HOTPLUG_REMOVED          MEDIA_STORAGE,OPERATION_STARTED          MEDIA_STORAGE,OPERATION_DONE          MEDIA_PLAYER,STATUS_UPDATE          MEDIA_PLAYER,ITEM_STATUS_CHANGED          MODULE,UPDATE_TRANSFER_STARTED          MODULE,UPDATE_TRANSFER_FINISHED          MODULE,UPDATE_TRANSFER_PROGRESS          MODULE,STATUS          MODULE,CORE_TEMPERATURE_ALERT          MODULE,USB_POWER_ALERT          MODULE,NETWORK_LINK_SPEED_CHANGED          MODULE,NETWORK_SETTINGS_CHANGED          MODULE_CORE_TEMPERATURE,CHANGED          PRESET,TAKE          PRESET,SAVE          PRESET,REMOVE          PRESET,COMPLETE          HDMI,SINK_UNPLUGGED          HDMI,SINK_ATTACHED          SYSTEM,UPDATE_STATUS          SYSTEM,POWERMODE_CHANGED          SECURITY,USERCERT_UPDATE_DECRYPTED          SECURITY,USERCERT_UPDATE_PARSE          SECURITY,USERCERT_UPDATE_VALIDATION          SECURITY,USERCERT_UPDATE_COMPLETE          SECURITY,USERCERT_INSTALL          FRONTPANEL,LOCKED          FRONTPANEL,UNLOCKED</p>	<p>Lists the all the available events for each category. If the optional &lt;eventCategory&gt; parameter is added, only the events for that particular category are listed.</p> <p>The format is one event per line in the format          &lt;eventCategory&gt;,&lt;event&gt;</p> <p>Note,          OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED is only supported on the CORIOmaster micro, C3-503 for Slot4.In1</p>
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Command	Syntax	Type	Example	Description
			OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED OUTPUT,STATUS_GROUP OUTPUT,PROPERTY_CHANGED WINDOW,INPUT REGION,EXCHANGING REGION,EXCHANGED INPUT,STATUS_GROUP STBD,ISCURRENT_CHANGED !Done listAllEvents()  ListAllEvents(HDMI) HDMI,SINK_UNPLUGGED HDMI,SINK_ATTACHED !Done listEvents(HDMI)	

## Aliases Commands

### Properties

Command	Syntax	Type	Example	Description
Aliases	Aliases	List	<pre>Aliases.Preset = Routing.Preset Aliases.Windows = Routing.Windows Aliases.Canvases = Routing.Canvases Aliases.Layouts = Routing.Layouts Aliases.MonitorViews = Routing.Monitorviews Aliases.s1i1 = Slots.Slot1.In1 ... Aliases.s16o2 = Slots.Slot16.Out2 !Done Aliases</pre>	<p>Displays defined aliases. Syntax: aliases.&lt;alias&gt; = &lt;command&gt;</p> <p>For example, "Preset" is an alias for "Routing.Preset" and typing "s1i1" is the same as typing "Slots.Slot1.In1".</p>



## Resources Commands

### Properties

Command	Syntax	Type	Example	Description
Resources	Resources	List	Resources.ConfigList() Resources.Configs = <...> Resources.EDID = <...> Resources.TPG = <...> Resources.Resolutions = <...> !Done Resources	List all of the Resources commands and display the values of the properties
Configs	Resources.Configs	List	Resources.Configs.Config1 = <...> Resources.Configs.Config2 = <...> ... Resources.Configs.Config19 = <...> Resources.Configs.Config20 = <...> !Done Resources.Configs	List all of the configuration slots (currently 1-20). See Resources Configuration Commands on page 43 below.
EDID	Resources.EDID	List	Resources.EDID.S1011 = <...> Resources.EDID.S1012 = <...> Resources.EDID.S1001 = <...> Resources.EDID.S1002 = <...> ... Resources.EDID.S1611 = <...> Resources.EDID.S1612 = <...> Resources.EDID.S1601 = <...> Resources.EDID.S1602 = <...> Resources.EDID.S112 = <...> Resources.EDID.S102 = <...> ... Resources.EDID.S911 = <...> Resources.EDID.S912 = <...> Resources.EDID.S901 = <...> Resources.EDID.S902 = <...>	List every EDID for every potential input and output. Note that the order of the output starts at Slot 10 and works through to Slot 16 then starts again at Slot 1 and goes through to Slot 9. For more information see Resources EDID Commands on page 46 below.

Command	Syntax	Type	Example	Description
			!Done Resources.EDID	
TPG	Resources.TPG	List	Resources.TPG.TPG1 = <...> !Done Resources.TPG	List the test pattern generator attributes. For more information see Resources Test Pattern Commands below. Note that there is only one test pattern generator (TPG1).
Resolutions	Resources.Resolutions	List	Resolutions.Resolution1 = <...> Resolutions.Resolution2 = <...> ... Resolutions.Resolution1000 = <...> Resolutions.Resolution1001 = <...> ... Resolutions.Resolution1008 = <...> Resolutions.Resolution1009 = <...> !Done Resolutions	List of all the supported video resolutions, including the user configurable custom resolutions. For more information see Resources Resolutions Commands on page 51 below.
FrontPanel	Resources.FrontPanel	List	Resources.FrontPanel Resources.FrontPanel=<...> !Done Resources.FrontPanel	<b>Only supported on CORIOmaster micro</b> Lists the front panel settings
IP_Streams	Resources.IP_Streams	List	Resources.IP_Streams.Stream1 = <...> Resources.IP_Streams.Stream2 = <...> ... Resources.IP_Streams.Stream19 = <...> Resources.IP_Streams.Stream20 = <...> !Done Resources.IP_Streams	List all the saved IP streams on the system. For more information see Resources IP Streams Commands below.

Command	Syntax	Type	Example	Description
Playlists	Resources.Playlists	List	Resources.Playlists Resources.Playlists.Playlist1 = <...> Resources.Playlists.Playlist2 = <...> ... Resources.Playlists.Playlist20 = <...> !Done Resources.Playlists	Lists all the playlists on the system. Playlists can only be played using the Streaming Media and 4K Playback Input Module.
Fonts	Resources.Fonts	List	Resources.Fonts.ListFonts() !Done Resources.Fonts	List all the fonts on the system. For more information see Resources Fonts Commands below.

### Methods

Command	Syntax	Type	Example	Description
ConfigList	Resources.ConfigList()	List	Resources.ConfigList() Resources.ConfigList[2]=test Resources.ConfigList[3]=Configuration !Done Resources.ConfigList()	List the saved configurations by name

## Resources Configuration Commands

It is possible to use `Configs.Config<n>` in place of `Resources.Configs.Config<n>`.

Where:

`Resources.Configs.Config<n>` is a configuration of the form `Resources.Configs.Config1`.

`Configs.Config<n>` is an output connection of the form `Configs.Config1`.

### Properties

Command	Syntax	Type	Example	Description
Configs	Configs	List	<pre>Configs.Config1 = &lt;...&gt; Configs.Config2 = &lt;...&gt; ... Configs.Config19 = &lt;...&gt; Configs.Config20 = &lt;...&gt; !Done Configs</pre>	List all 20 of the configurations.
Config<number>	Configs.Config<n>	List	<pre>Configs.Config1.Directory = mmc:\TVONE\CONFIGS\C1 Configs.Config1.Backup() Configs.Config1.Restore() Configs.Config1.Remove() !Done Configs.Config1</pre>	List all of the commands and display the values of the properties for the specified configuration.
Directory	Configs.Config<n>.Directory	String	<pre>Configs.Config1.Directory = mmc:\TVONE\CONFIGS\C1 !Done Configs.Config1.Directory</pre>	<p>Read only.</p> <p>Get the name and path of the configuration file for this configuration.</p> <p>If the configuration is from a version of CPU firmware prior to M400, then this string will point to that configuration, otherwise it will indicate a new storage area for M400.</p>

## Methods

Command	Syntax	Type	Example	Description
Backup	Configs.Config<n>.Backup()	Void	<pre>// Backup: File delete: mmc:\TVONE\CONFIGS\C1\SETTINGS\SETUP_M.TXT ... // Backup: File delete: mmc:\TVONE\CONFIGS\C1\EDID\DEFAULTS\WUXGA.EDD // Backup: File copy: nand:\TVONE\SETTINGS\SETUP_M.TXT ... // Backup: File copy: nand:\TVONE\EDID\DEFAULTS\WUXGA.EDD // Backup: Dir made: mmc:\TVONE\CONFIGS\C1\PRESETS\U_D1000 // Backup: Complete !Done Configs.Config1.Backup()</pre>	<p>Backup the specified configuration from NAND to SD card. This is similar to "System.BackupToSDCard()" but for this configuration only.</p> <p>Note that if a configuration that pre-dates M400 release exists, that configuration WILL NOT be overwritten and a new one will be created.</p>

Command	Syntax	Type	Example	Description
Restore	Configs.Config<n>.Restore()	Void	<pre>// Restore: File delete: nand:\TVONE\SETTINGS\SETUP_M.TXT ... // Restore: File delete: nand:\TVONE\EDID\DEFAULTS\WUXGA.EDD // Restore: File copy: mmc:\TVONE\CONFIGS\C1\SETTINGS\SETUP_M.TXT ... // Restore: File copy: mmc:\TVONE\CONFIGS\C1\EDID\DEFAULTS\WUXGA.EDD // Restore: Complete !Done Configs.Config1.Restore()</pre>	<p>Restore the specified configuration from SD card to NAND</p> <p>This is similar to “System.RestoreBackup()” but for this configuration only.</p>
Remove	Configs.Config<n>.Remove()	Void	<pre>// Remove: File delete: mmc:\TVONE\CONFIGS\C1\SETTINGS\SETUP_M.TXT ... // Remove: File delete: mmc:\TVONE\CONFIGS\C1\EDID\DEFAULTS\WUXGA.EDD // Remove: Complete !Done Configs.Config1.Remove()</pre>	<p>Remove the specified configuration from the SD card.</p> <p>Note that if the configuration is a legacy configuration from an earlier version than M400, it will not be possible to remove it.</p> <p>If the configuration is from later than M400 and a prior configuration exists then removing the M400 configuration will allow the older configuration to be re-loaded.</p>

## Resources EDID Commands

EDID methods for each possible connection in the device are accessed by slot number and input or output number.

It is possible to use EDID.S<n>I<n> in place of Resources.EDID.S<n>I<n> and EDID.S<n>O<n> in place of Resources.EDID.S<n>O<n>.

Where:

EDID.S<n>I<n> is an input connection of the form EDID.S1I1.

EDID.S<n>O<n> is an output connection of the form EDID.S1O1.

EDID.S<n><X><n> is an input or an output of the form EDID.S<n>I<n> or EDID.S<n>O<n>.

## Properties

Command	Syntax	Type	Example	Description
EDID.S<n><X><n>	EDID.S<n><X><n>	List	EDID.S3I1.Filename = nand:\TVONE\EDID\S3I1.EDD EDID.S3I1.EDIDVersion = 1.3 EDID.S3I1.Manufacturer = TVO EDID.S3I1.Name = TVOneCORIOmax EDID.S3I1.SerialNumber = 0 EDID.S3I1.ManufactureDate = 201310 EDID.S3I1.Width_mm = 600 EDID.S3I1.Height_mm = 450 EDID.S3I1.HorizBdr_pix = 0 EDID.S3I1.VertBdr_pix = 0 EDID.S3I1.Extensions = 1 EDID.S3I1.Resolutions() EDID.S3I1.Remove_File() !Done EDID.S3I1	Read only. List all of the EDID properties for the specified input on the specified slot. An input will always show the EDID information from the file specified in the Filename attribute.
Filename	EDID.S<n><X><n>.Filename	String	EDID.S3I1.Filename = nand:\TVONE\EDID\S3I1.EDD !Done EDID.S3I1.Filename	Read only. Get the path and filename of the EDID file currently used for this connection.
EDIDVersion	EDID.S<n><X><n>.EDIDVersion	String	EDID.S3I1.EDIDVersion = 1.3 !Done EDID.S3I1.EDIDVersion	Read only. Get the EDID software version

Command	Syntax	Type	Example	Description
Manufacturer	EDID.S<n><X><n>.Manufacturer	String	EDID.S311.Manufacturer = TVO !Done EDID.S311.Manufacturer	Read only. Get the manufacturer.
Name	EDID.S<n><X><n>.Name	String	EDID.S311.Name = TVOneCORIOmax !Done EDID.S311.Name	Read only. Get the name
SerialNumber	EDID.S<n><X><n>.SerialNumber	Integer	EDID.S311.SerialNumber = 0 !Done EDID.S311.SerialNumber	Read only. Get the serial number.
ManufactureDate	EDID.S<n><X><n>.Manufacture Date	String	EDID.S311.ManufactureDate = 201310 !Done EDID.S311.ManufactureDate	Read only. Get the manufacture date in the form YYYYWW, where YYYY is the year and WW is the week.
Width_mm	EDID.S<n><X><n>.Width_mm	Integer	EDID.S311.Width_mm = 600 !Done EDID.S311.Width_mm	Read only. Get the addressable video image size of attached display, in millimetres
Height_mm	EDID.S<n><X><n>.Height_mm	Integer	EDID.S311.Height_mm = 450 !Done EDID.S311.Height_mm	Read only. Get the addressable video image size of attached display, in millimetres
HorizBdr_pix	EDID.S<n><X><n>.HorizBdr_pix	Integer	EDID.S311.HorizBdr_pix = 0 !Done EDID.S311.HorizBdr_pix	Read only. Get the image border size of attached display, in pixels
VertBdr_pix	EDID.S<n><X><n>.VertBdr_pix	Integer	EDID.S311.VertBdr_pix = 0 !Done EDID.S311.VertBdr_pix	Read only. Get the image border size of attached display, in pixels
Extensions	EDID.S<n><X><n>.Extensions	Integer	EDID.S311.Extensions = 1 !Done EDID.S311.Extensions	Read only. Get the number of 128-byte extension blocks included in EDID.



## Methods

Command	Syntax	Type	Example	Description
Resolutions	EDID.S<n><X><n>.Resolutions()	List	// EDID.S3I1.Resolutions() 720x400p70 640x480p60 640x480p72 800x600p56 1280x960p60 1280x1024p60 1280x800p60 1920x1080p60 1600x1000p60 1600x1200p60 1680x1050p60 1920x1200p60 1920x1200p60 1280x720p60 !Done EDID.S3I1.Resolutions()	Read only. List the resolutions available for the specified connection.
Remove_File	EDID.S<n><X><n>.Remove_File()	Void	EDID.S3I1.Remove_File() !Done EDID.S3I1.Remove_File()	Removes the corresponding EDID file. <b>Warning this removes the connection from the EDID list.</b>

## Resources Test Pattern Commands

Note that only one test pattern generator (TPG1) is supported.

It is possible to use TPG.TPG1 in place of Resources.TPG.TPG1.

### Properties

Command	Syntax	Type	Example	Description
TPG	TPG	List	TPG.TPG1 = <...> !Done TPG	List the test pattern generators.
TPG1	TPG.TPG1	List	TPG.TPG1.Resolution = 1280x720p60 TPG.TPG1.Pattern = RGB_100 TPG.TPG1.Moving_Bar = Off !Done TPG.TPG1	List the test pattern attributes
TPG1.Resolution	TPG.TPG1.Resolution	Resolution	TPG.TPG1.Resolution = 1280x720p60 !Done TPG.TPG1.Resolution	Get or set the resolution for the Test Pattern Generator. The resolution is set by name, see the name property in Resources Resolutions Commands on page 51 below. The default value is 1280x720p60
TPG1.Pattern	TPG.TPG1.Pattern	TestPattern	TPG.TPG1.Pattern = White !Done TPG.TPG1.Pattern	Get or set the test pattern.  The default value is RGB_100  Options: Black, RGB_100, 8x8_Grid, Dot, 8x8_ChqBrd, Vertical_Lines, Horizontal_Lines, Bars_n_Ramps, Blue, Red, Magenta, Green, Cyan, Yellow, White

Command	Syntax	Type	Example	Description
TPG1.Moving_Bar	TPG.TPG1.Moving_Bar	Boolean	TPG.TPG1.Moving_Bar = Off !Done TPG.TPG1.Moving_Bar	Get or set if the moving bar is enabled. The default value is Off

## Resources Resolutions Commands

List of all the supported video resolutions, including the user defined Custom Resolutions.

The system resolutions are read only and numbered from 1.

The custom resolutions can be modified and are numbered from 1000.

For more information on programming Custom Resolutions see the Resolution Editor Programming Guide.

It is possible to use Resolutions in place of Resources.Resolutions.

Properties for the System (built-in) resolutions are all Read Only.

Properties for the Custom Resolutions (Resolution1000 onwards) are Read/Write except where marked as Read only.

### Properties

Command	Syntax	Type	Example	Description
Resolutions	Resolutions	List	<pre>Resolutions.Resolution1 = &lt;...&gt; Resolutions.Resolution2 = &lt;...&gt; ... Resolutions.Resolution1000 = &lt;...&gt; Resolutions.Resolution1001 = &lt;...&gt; ... Resolutions.Resolution1008 = &lt;...&gt; Resolutions.Resolution1009 = &lt;...&gt; !Done Resolutions</pre>	List of all the supported video resolutions, including the user configurable custom resolutions.
Resolutions.Resolution<n>	Resolutions.Resolution<n>	List	<pre>Resolutions.Resolution1.Name = 640x480p60 Resolutions.Resolution1.Aspect = 4:3 Resolutions.Resolution1.CanFrameLoc k = No Resolutions.Resolution1.PixelClock = 25175000 Resolutions.Resolution1.ScanType = p Resolutions.Resolution1.HActive = 640</pre>	List the properties of the specified resolution.

Command	Syntax	Type	Example	Description
			Resolutions.Resolution1.HFrontPorch = 16 Resolutions.Resolution1.HSyncPulse = 96 Resolutions.Resolution1.HBackPorch = 48 Resolutions.Resolution1.VActive = 480 Resolutions.Resolution1.VFrontPorch = 10 Resolutions.Resolution1.VSyncPulse = 2 Resolutions.Resolution1.VBackPorch = 33 Resolutions.Resolution1.HSyncPolarity = N Resolutions.Resolution1.VSyncPolarity = N Resolutions.Resolution1.CEAID = 1 Resolutions.Resolution1.Origin = tvONE !Done Resolutions.Resolution1	
Name	Resolutions.Resolution<n>.Name	String	Resolutions.Resolution1.Name = 640x480p60 !Done Resolutions.Resolution1.Name	Get or set the name of this resolution.
Aspect	Resolutions.Resolution<n>.Aspect	AspectRatio	Resolutions.Resolution1.Aspect = 4:3 !Done Resolutions.Resolution1.Aspect	Get or set the aspect ratio of this resolution Used assist in the signal conversion when an input and the output have different aspect ratio.
CanFramelock	Resolutions.Resolution<n>.CanFramelock	Boolean	Resolutions.Resolution1.CanFramelock = No	Read only.

Command	Syntax	Type	Example	Description
			!Done Resolutions.Resolution1.CanFrameLock	Get if the Resolution is compatible with Framelock.
PixelClock	Resolutions.Resolution<n>.PixelClock	Integer	Resolutions.Resolution1.PixelClock = 25175000 !Done Resolutions.Resolution1.PixelClock	Get or set the speed of the Pixel Clock in pixels per second for this resolution.
ScanType	Resolutions.Resolution<n>.ScanType	ScanMode	Resolutions.Resolution1.ScanType = p !Done Resolutions.Resolution1.ScanType	Get or set the scan type for this Resolution: p Progressive. i Interlaced scan mode.
HActive	Resolutions.Resolution<n>.HActive	Integer	Resolutions.Resolution1.HActive = 640 !Done Resolutions.Resolution1.HActive	Get or set the length of the Horizontal Active Video for this resolution
HFrontPorch	Resolutions.Resolution<n>.HFrontPorch	Integer	Resolutions.Resolution1.HFrontPorch = 16 !Done Resolutions.Resolution1.HFrontPorch	Get or set the timing interval for the Horizontal Front Porch for this resolution.
HSyncPulse	Resolutions.Resolution<n>.HSyncPulse	Integer	Resolutions.Resolution1.HSyncPulse = 96 !Done Resolutions.Resolution1.HSyncPulse	Get or set the length of the Horizontal Sync Pulse for this resolution.
HBackPorch	Resolutions.Resolution<n>.HBackPorch	Integer	Resolutions.Resolution1.HBackPorch = 48 !Done Resolutions.Resolution1.HBackPorch	Get or set the timing interval for the Horizontal Back Porch for this resolution.
VActive	Resolutions.Resolution<n>.VActive	Integer	Resolutions.Resolution1.VActive = 480 !Done Resolutions.Resolution1.VActive	Get or set the length of the Vertical Active Video for this resolution

Command	Syntax	Type	Example	Description
VFrontPorch	Resolutions.Resolution<n>.VFrontPorch	Integer	Resolutions.Resolution1.VFrontPorch = 10 !Done Resolutions.Resolution1.VFrontPorch	Get or set the timing interval for the Vertical Front Porch for this resolution.
VSynCPulse	Resolutions.Resolution<n>.VSynCPulse	Integer	Resolutions.Resolution1.VSynCPulse Resolutions.Resolution1.VSynCPulse = 2	Get or set the length of the Vertical Sync Pulse for this resolution.
VBackPorch	Resolutions.Resolution<n>.VBackPorch	Integer	Resolutions.Resolution1.VBackPorch = 33 !Done Resolutions.Resolution1.VBackPorch	Get or set the timing interval for the Vertical Back Porch for this resolution.
HSyncPolarity	Resolutions.Resolution<n>.HSyncPolarity	Polarity	Resolutions.Resolution1.HSyncPolarity = N !Done Resolutions.Resolution1.HSyncPolarity	Get or set the Horizontal Sync Polarity. N = Negative P = Positive
VSynCPolarity	Resolutions.Resolution<n>.VSynCPolarity	Polarity	Resolutions.Resolution1.VSynCPolarity = N !Done Resolutions.Resolution1.VSynCPolarity	Get or set the Vertical Sync Polarity. N = Negative P = Positive
CEAID	Resolutions.Resolution<n>.CEAID	Integer	Resolutions.Resolution1.CEAID = 1 !Done Resolutions.Resolution1.CEAID	Get or set the Consumer Electronics Association Digital Television Profile as defined in CEA-861-D
Origin	Resolutions.Resolution<n>.Origin	String	Resolutions.Resolution1.Origin = tvONE !Done Resolutions.Resolution1.Origin	Get or set the origin of the Custom Resolution.

## Resources FrontPanel Commands

For use with CORIOmaster/CORIOview only

Manage all the front panel operation on a CORIOmaster micro & CORIOview

### Properties

Command	Syntax	Type	Example	Description
FrontPanel	Resources.FrontPanel	List	Resources.FrontPanel Resources.FrontPanel=<...> !Done Resources.FrontPanel	<b>Only supported on CORIOmaster micro</b> Lists the front panel settings
Lock	Resources.FrontPanel.Lock	Enum	Resources.FrontPanel.Lock = On !Done Resources.FrontPanel.Lock	Locks the front panel operation so that button presses are ignored until unlocked. On – Lock panel Off – Unlock Panel This persists over a power cycle
Brightness	Resources.FrontPanel.Brightness	Integer	Resources.FrontPanel.Brightness = 50 !Done Resources.FrontPanel.Brightness	Adjusts the relative brightness of the button LEDs. Valid values are percentages from 30 to 100%. The default is 100% This persists over a power cycle.
ButtonMode	Resources.FrontPanel.ButtonMode	Enum	Resources.FrontPanel.ButtonMode = Preset_Select !Done Resources.FrontPanel.ButtonMode	Sets the mode of front panel button operation: Preset_Select – buttons select a preset Source_Select – buttons change source routing This persists over a power cycle.
Buttons	Resources.FrontPanel.Buttons	List	Resources.FrontPanel.Buttons Resources.FrontPanel.Buttons.Button1=<...> Resources.FrontPanel.Buttons.Button2=<...>	Lists the settings for each front panel button



Command	Syntax	Type	Example	Description
			... Resources.FrontPanel.Buttons.Button8= <...> !Done Resources.FrontPanel.Buttons	
Button<n>.Preset	Resources.FrontPanel.Buttons.Button<n>.Preset	Integer	Resources.FrontPanel.Buttons.Button3.Preset = 3 !Done Resources.FrontPanel.Buttons.Button3.Preset	Set the preset number assigned to the button, for use on short button press when front panel is in preset mode. Preset number
Button<n>.Input	Resources.FrontPanel.Buttons.Button<n>.Input	Input	Resources.FrontPanel.Buttons.Button3.Input = Slot3.In1 !Done Resources.FrontPanel.Buttons.Button3.Input	Set the input assigned to the button, for use on short button press when front panel is in source routing mode.
Button<n>.Window	Resources.FrontPanel.Buttons.Button<n>.Window	Integer	Resources.FrontPanel.Buttons.Button3.Window = 3 !Done Resources.FrontPanel.Buttons.Button3.Window	Set the window number assigned to the button, used to assign the routing window on a long press of the button. Windows number

## Events

Event	Syntax	Category	Example	Description
FRONTPANEL	FRONTPANEL,<LOCKED   UNLOCKED>	FRONTPANEL	<pre>// Register for event AddEvents(FRONTPANEL)  // Event example !Event FRONTPANEL,LOCKED</pre>	When the front panel on a CORIOmaster micro is locked or unlocked, it will raise this event.
AUDIO_FOLLOW_WINDOW_CHANGED	OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED,Slot<n>.Out<n>,[Window<n>   NULL]	OUTPUT	<pre>// Register for event AddEvents(OUTPUT)  // Event example !Event OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED,Slot4.Out1,Window2</pre>	Raised when source routing is changed, such as with a short button press when front panel is in source routing mode.
INPUT	WINDOW,INPUT,[Slot<n>.In<n>   NULL]	WINDOW	<pre>// Register for event AddEvents(WINDOW)  // Event example !Event WINDOW,INPUT,Slot4.In1</pre>	Raised when routing window changes, such as with a long button press.

## Resources IP Streams Commands

Manage all the saved IP streams in the system. Saved IP streams are only an information store for external use; they are not used internally.

### Properties

Command	Syntax	Type	Example	Description
IP_Streams	Resources.IP_Streams	List	Resources.IP_Streams.Stream1 = <...> Resources.IP_Streams.Stream2 = <...> ... Resources.IP_Streams.Stream19 = <...> Resources.IP_Streams.Stream20 = <...> !Done Resources.IP_Streams	List all the saved IP streams on the system. There are currently 20 saved IP streams per system.
Stream<n>	Resources.IP_Streams.Stream<n>	List	Resources.IP_Streams.Stream1 Resources.IP_Streams.Stream1.Name = "Wowza" Resources.IP_Streams.Stream1.URL = "rtsp://172.16.22.240:1935/wowza-test/bbb-high-4.2-1920x1080p60.mp4" Resources.IP_Streams.Stream1.Transport = Auto !Done Resources.IP_Streams.Stream1	Returns the details for the chosen IP stream.
Stream<n>.Name	Resources.IP_Streams.Stream<n>.Name	String	Resources.IP_Streams.Stream1.Name = "Wowza" !Done Resources.IP_Streams.Stream1.Name	Get or set the name for the IP stream.
Stream<n>.URL	Resources.IP_Streams.Stream<n>.URL	String	Resources.IP_Streams.Stream1.URL = "rtsp://172.16.22.240:1935/wowza-test/bbb-high-4.2-1920x1080p60.mp4" !Done Resources.IP_Streams.Stream1.URL	Get or set the URL for the IP stream.
Stream<n>.Transport	Resources.IP_Streams.Stream<n>.Transport	Enum	Resources.IP_Streams.Stream1.Transport = Auto !Done Resources.IP_Streams.Stream1.Transport	Get or set the transport for the IP stream. Valid values are "Auto", "UDP", "TCP", "HTTP", "RTSPMulticast".

## Resources Playlists Commands

### For use with CORIOmaster only

Manage all the playlists in the system. Playlists are only used by the Streaming Media and 4K Playback Input Module.

#### Properties

Command	Syntax	Type	Example	Description
Playlists	Resources.Playlists	List	Resources.Playlists Resources.Playlists.Playlist1 = <...> Resources.Playlists.Playlist2 = <...> ... Resources.Playlists.Playlist20 = <...> !Done Resources.Playlists	Lists all the playlists on the system. Playlists can only be played using the Streaming Media and 4K Playback Input Module.
Playlist<n>	Resources.Playlists.Playlist<n>	Playlist	Resources.Playlists.Playlist3 Resources.Playlists.Playlist3.Name = "My Playlist" Resources.Playlists.Playlist3.Resolution = 1920x1080p60 Resources.Playlists.Playlist3.Slot = Slot4 Resources.Playlists.Playlist3.Items = <...> Resources.Playlists.Playlist3.InsertItem() Resources.Playlists.Playlist3.RemoveItem() Resources.Playlists.Playlist3.MoveItem() Resources.Playlists.Playlist3.ReplaceItem() Resources.Playlists.Playlist3.ClearItems() Resources.Playlists.Playlist3.Save() Resources.Playlists.Playlist3.Remove() !Done Resources.Playlists.Playlist3	Returns the details for the chosen playlist
Playlist <n>.Name	Resources.Playlists.Playlist<n>.Name	String	Resources.Playlists.Playlist2.Name = "New Name"	Gets or sets a name for the playlist. Note: a playlist with no name will be regarded as empty

Command	Syntax	Type	Example	Description
			!Done Resources.Playlists.Playlist2.Name = "New Name"	
Playlist <n>.Slot	Resources.Playlists.Playlist<n>.Slot	String	Resources.Playlists.Playlist2.Slot = Slots.Slot4 !Done Resources.Playlists.Playlist2.Slot = Slots.Slot4	Get and set the supported slot for the Playlist.
Playlist<n>.Items	Resources.Playlists.Playlist<n>.Items	Array	Resources.Playlists.Playlist1.Items Resources.Playlists.Playlist1.Items.Item1 = (8,NULL,"file:///usb0/Interstellar%20-%20Docking%20Scene%20[1080p;%2060%20FPS;%20IMAX].mp4",243,Auto,1,OK,0,0) Resources.Playlists.Playlist1.Items.Item2 = (8,NULL,"file:///usb0/Everything%20Starts%20Again%2030.mp4",52,Auto,1,OK,0,0) Resources.Playlists.Playlist1.Items.Item3 = (8,NULL,"file:///usb0/PASSENGERS%20Official%20Trailer%20[4K%20Ultra%20HD].mp4",152,Auto,1,OK,0,0) Resources.Playlists.Playlist1.Items.Item4 = (1,"ipstream","rtsp://192.168.1.0",0,Auto,1,OK,0,0) .. Resources.Playlists.Playlist1.Items.Item20 = NULL !Done Resources.Playlists.Playlist1.Items	Returns the details media items in the Playlist. Each item is represented by a comma separated list. The format for each is as follows: (<type>,<friendlyName>,<uri>,<duration>,<protocol>,<retries>,<status>,<resultCode>,<low-latency>)  <i>type</i> is represented as an int with the following values: 1 = Video Stream 2 = Text File 4 = Image File 8 = Video File  <i>friendlyName</i> - Can be NULL or a string <i>uri</i> <i>duration</i> - (seconds) <i>protocol</i> - Is currently always set to <i>Auto</i> <i>retries</i> - no retries = 0, retry (for duration of the clip) = 1 <i>status</i> - OK, Failed <i>resultCode</i> - Not used <i>low-latency</i> - 0 = normal, 1 = low-latency (no audio)

Command	Syntax	Type	Example	Description
Playlist<n>.InsertItem	Resources.Playlists.Playlist<n>.InsertItem(<int> index, <int> type, <string> friendlyName, <string> uri, <int> duration, <string> protocol, <int> retries, <int> low-latency)	Function	// Insert an item into the Item 5 position Playlists.Playlist1.InsertItem(5,1,"ipstream","rtsp://192.168.1.0",0,Auto,1,0) !Done Playlists.Playlist1.InsertItem(5,1,"ipstream","rtsp://192.168.1.0",0,Auto,1,0)	<p>Function to add an item to the selected Playlist. Items are inserted into the queue. If there are items after the insert index they will be moved down to make space for the new item.</p> <p>The name and path must be URI encoded and surrounded by quotation marks.</p> <p>Parameters:</p> <p><i>index</i> - &lt;int&gt; Index at which to insert the item. 0 = beginning</p> <p><i>type</i> - &lt;int&gt; See Playlist&lt;n&gt;.Items for supported type</p> <p><i>friendlyName</i> - &lt;string&gt; Friendly name of the queue item</p> <p><i>uri</i> - &lt;string&gt; Path to the item. Either a file path or a stream URL</p> <p><i>duration</i> - &lt;int&gt; Duration to play the item for. 0 = Infinite (seconds)</p> <p><i>protocol</i> - (Optional) Specify the stream protocol. This should be set to "Auto", unless you are using Encoder-100, where you may set it to "RTSPMulticast" for multicast operation.</p> <p><i>retries</i> - (Optional) Set the retry behaviour. 0 = no retries, 1 = always retry</p> <p><i>low-latency</i> - (Optional) Set the latency behaviour. 0 = normal, 1 = low-latency (no audio)</p>

Command	Syntax	Type	Example	Description
				<p>Note: The friendlyName and uri must be URI encoded and surrounded by quotation marks.</p> <p>Note: Optional values must be specified progressively, i.e. retries requires protocol; low-latency requires retries.</p>
Playlist<n>.RemoveItem	Resources.Playlists.Playlist<n>.RemoveItem(<int> index)	Function	<pre>// Remove Item3 from the Playlist Resources.Playlists.Playlist3.RemoveItem(3) !Done Resources.Playlists.Playlist3.RemoveItem()</pre>	<p>Function to remove an Item from the selected Playlist. The index number corresponds to the number returned in the Items list.</p> <p>Parameters: <i>index</i> - &lt;int&gt; The index at which to remove the item from</p> <p>Return Type: void</p>
Playlist<n>.MoveItem	Resources.Playlists.Playlist<n>.MoveItem(<int> fromIndex, <int> toIndex)	Function	<pre>// Move Item3 to the beginning of the Playlist Resources.Playlists.Playlist3.MoveItem(3,1) !Done Resources.Playlists.Playlist3.MoveItem()</pre>	<p>Function to move an Item to a different location within the selected Playlist. The index numbers correspond to the number returned in the Items list.</p> <p>Parameters: <i>fromIndex</i> - &lt;int&gt; The index of the Item you wish to move</p> <p><i>toIndex</i> - &lt;int&gt; The Index within the Items list to where the Item will be moved</p> <p>Return Type: void</p>
Playlist<n>.ReplaceItem	Resources.Playlists.Playlist<n>.ReplaceItem(<int> index,<int> type, <string> friendlyName, <string> uri, <int> duration <string> protocol, <int> retries, <int> low-latency)	Function	<pre>// Replace item at position 4 in the queue Slot2.In1.ActiveQueue.ReplaceItem(4,1,"ipstream","rtsp://192.168.1.0",300,Auto,1,1)</pre>	<p>Replace the item at the chosen playlist index. Item at the index is replaced with the new details supplied.</p> <p>Parameters:</p>

Command	Syntax	Type	Example	Description
			19/12/2018 12:47:17 >> !Done Slot2.In1.ActiveQueue.ReplaceItem(4,1,"ipstream","rtsp://192.168.1.0",300,Auto,1,1)	<p><i>index</i> - &lt;int&gt; Index of item you wish to replace.</p> <p><i>type</i> - &lt;int&gt; See Playlist&lt;n&gt;.Items for supported type</p> <p><i>friendlyName</i> - &lt;string&gt; Friendly name of the queue item</p> <p><i>uri</i> - &lt;string&gt; Path to the item. Either a file path or a stream URL</p> <p><i>duration</i> - &lt;int&gt; Duration to play the item for. 0 = Infinite</p> <p><i>protocol</i> - (Optional) Specify the stream protocol. This should be set to "Auto", unless you are using Encoder-100, where you may set it to "RTSPMulticast" for multicast operation.</p> <p><i>retries</i> - (Optional) Set the retry behaviour. 0 = no retries, 1 = always retry</p> <p><i>low-latency</i> - (Optional) Set the latency behaviour. 0 = normal, 1 = low-latency (no audio)</p> <p>Note: The friendlyName and uri must be URI encoded and surrounded by quotation marks.</p> <p>Note: Optional values must be specified progressively, i.e. retries requires protocol; low-latency requires retries.</p>
Playlist <n>.ClearItems	Resources.Playlists.Playlist<n>.ClearItems()	Function	Resources.Playlists.Playlist3.ClearItems()	Removes all items from the playlist



Command	Syntax	Type	Example	Description
			!Done Resources.Playlists.Playlist3.ClearItems()	
Playlist <n>.Save	Resources.Playlists.Playlist<n>.Save()	Function	Resources.Playlists.Playlist3.Save() !Done Resources.Playlists.Playlist3.Save()	Saves the Playlist to the device. This will make the playlist available after a reboot without the need to run "SaveAllSettings"
Playlist <n>.Remove	Resources.Playlists.Playlist<n>.Remove()	Function	Resources.Playlists.Playlist3.Remove() !Done Resources.Playlists.Playlist3.Remove()	Removes the Playlist. All items are removed, the name is erased and the default resolution is set.

## Resources Fonts Commands

Manage all the saved fonts in the system.

### Properties

Command	Syntax	Type	Example	Description
Fonts	Resources.Fonts	List	Resources.Fonts.ListFonts() !Done Resources.Fonts	List the fonts commands.

### Methods

Command	Syntax	Type	Example	Description
ListFonts	Resources.Fonts.ListFonts()	List	Open Sans,128 Open Sans,96 Open Sans,64 Open Sans,48 Open Sans,32 Open Sans,20 !Done Resources.Fonts.ListFonts()	List all the fonts on the system.

## Slots Commands

It is possible to use Slot<n> in place of Slots.Slot<n>.

The properties available in each Slot depend upon the Module in that Slot.

### Properties

Command	Syntax	Type	Example	Description
Slots	Slots	List	Slots.Slot1 = <...> Slots.Slot2 = <...> Slots.Slot3 = <...> Slots.Slot4 = NO CARD Slots.Slot5 = NO CARD Slots.Slot6 = NO CARD Slots.Slot7 = NO CARD Slots.Slot8 = NO CARD Slots.Slot9 = NO CARD Slots.Slot10 = NO CARD Slots.Slot11 = NO CARD Slots.Slot12 = NO CARD Slots.Slot13 = NO CARD Slots.Slot14 = <...> Slots.Slot15 = <...> Slots.Slot16 = <...> !Done Slots	List all of the slots and report either the slot properties if there is a card or NO CARD if not.

## DVI Input Module

This section covers the following modules:

AK32 DVI-U 2 input module

AK49 DVI-U 2 input module

AK53 DVI-U 2 input module

It is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot3.Cardtype = DVI_U 2-in Slot3.Carddata = <...> Slot3.In1 = <...> Slot3.In2 = <...> Slot3.PhaseRetrain() Slot3.Module_Resolutions() !Done Slot3	List all of the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot3.Cardtype = DVI_U 2-in !Done Slot3.Cardtype	Read-only. Get the type of the card in this slot
Carddata	Slot<n>.Carddata	void	Slot3.Carddata.BaseNo = 218092000121 Slot3..Carddata.PTR = :::----- :::,,, centres at 30, 30 (29). !Done Slot3.Carddata	Returns card specific data BaseNo: base card serial number PTR: phase training result
In<n>	Slot<n>.In<n>	List	Slot3.In1.FullName = In1 Slot3.In1.Status = OK Slot3.In1.Alias = s3i1 Slot3.In1.WindowList = Window1,Window2 Slot3.In1.TypeChoice = DVI Slot3.In1.AspectChoice = 4:3	List the properties for an Input on the given Slot. Where In<n> is the input on the card.  Note: AudInA-D, AFVChoiceA-D, AudioBars may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot3.In1.Brightness = 0 Slot3.In1.Contrast = 100 Slot3.In1.ColourScale = Auto Slot3.In1.TPG = Off Slot3.In1.Set_Resolution = 640x480p60 Slot3.In1.Measured_Resolution = 640x480p60 Slot3.In1.Measured_Width = 640 Slot3.In1.Measured_Height = 480 Slot3.In1.Measured_Field_Rate = 60 Slot3.In1.Measured_VTotal = 525 Slot3.In1.Measured_Frame_ip = p Slot3.In1.EDID_Filename = s3i1.edd Slot3.In1.ForceLinkRefresh() Slot3.In1.LeftCrop = 0 Slot3.In1.RightCrop = 0 Slot3.In1.TopCrop = 0 Slot3.In1.BottomCrop = 0 Slot3.In1.AnH_Offset = 0 Slot3.In1.AnV_Offset = 0 Slot3.In1.OnSrcLossColour = Blue Slot3.In1.HDCP_Enabled = Supported Slot3.In1.HDCP_Required = Off Slot3.In1.HDMI = Found Slot3.In1.Audio = Found Slot3.In1.AudInA = NULL Slot3.In1.AudInB = NULL Slot3.In1.AudInC = NULL Slot3.In1.AudInD = NULL Slot3.In1.AFVChoiceA = Slot3.In1.AudInA Slot3.In1.AFVChoiceB = Slot3.In1.AudInB	

Property Name	Syntax	Type	Example	Description
			Slot3.In1.AFVChoiceC = Slot3.In1.AudInC Slot3.In1.AFVChoiceD = Slot3.In1.AudInD Slot3.In1.AudioBars = 4 Slot3.In1.View = NULL Slot3.In1.ViewPosCode = 0 Slot3.In1.PreviewVideoType = 0 Slot3.In1.Equipment = Slot3.In1.CanFramelockTo = No Slot3.In1.dll = 16 Slot3.In1.imm = Yes !Done Slot3.In1	
FullName	Slot<n>.In<n>.FullName	String	Slot3.In1.FullName = In1 !Done Slot3.In1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.In<n>.Status	StatusEnum	Slot3.In1.Status = OK !Done Slot3.In1.Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot3.In1.Alias = s3i1 !Done Slot3.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
WindowList	Slot<n>.In<n>.WindowList	String	Slot3.In1.WindowList = Window1 !Done Slot3.In1.WindowList	Read only. Get the window that the slot is routed to.
TypeChoice	Slot<n>.In<n>.TypeChoice	TypeChoice	Slot3.In1.TypeChoice = DVI !Done Slot3.In1.TypeChoice = DVI	Get or set the type of signal encoding on the input.
Brightness	Slot<n>.In<n>.Brightness	Integer	Slot3.In1.Brightness = 0 !Done Slot3.In1.Brightness	Get or set the brightness adjustment for this input. Valid range is from -30 to 30

Property Name	Syntax	Type	Example	Description
Contrast	Slot<n>.In<n>.Contrast	Percentage	Slot3.In1.Contrast = 100 !Done Slot3.In1.Contrast	Get or set the contrast adjustment for the Input. Valid range is from 30% to 130%
ColourScale	Slot<n>.In<n>.ColourScale	ColourScale	Slot3.In1.ColourScale = Auto !Done Slot3.In1.ColourScale	Get or set the colour scale for this input.
TPG	Slot<n>.In<n>.TPG	Boolean	Slot3.In1.TPG = TPG1 !Done Slot3.In1.TPG = TPG1	Get or set to use the internal Test Pattern Generator (TPG1) for this input. Options are "Off" or "TPG1".
Set_Resolution	Slot<n>.In<n>.Set_Resolution	Resolution	Slot3.In1.Set_Resolution = 640x480p60 !Done Slot3.In1.Set_Resolution	Read-only. Get the current resolution set for this input.
Measured_Resolution	Slot<n>.In<n>.Measured_Resolution	Resolution	Slot3.In1.Measured_Resolution = 640x480p60 !Done Slot3.In1.Measured_Resolution	Read-only. Get the resolution being read from this Input.
Measured_Width	Slot<n>.In<n>.Measured_Width	Integer	Slot3.In1.Measured_Width = 640 !Done Slot3.In1.Measured_Width	Read-only. Get the width of the resolution being read from this input.
Measured_Height	Slot<n>.In<n>.Measured_Height	Integer	Slot3.In1.Measured_Height = 480 !Done Slot3.In1.Measured_Height	Read-only. Get the measured height of the resolution being read from this input.
Measured_Field_Rate	Slot<n>.In<n>.Measured_Field_Rate	Integer	Slot3.In1.Measured_Field_Rate = 60 !Done Slot3.In1.Measured_Field_Rate	Read-only. Get the measured field rate of the resolution being read from this input.
Measured_VTotal	Slot<n>.In<n>.Measured_VTotal	Integer	Slot3.In1.Measured_VTotal = 525 !Done Slot3.In1.Measured_VTotal	Read-only. Get the measured total vertical lines of the resolution being read from this input.
Measure_Frame_ip	Slot<n>.In<n>.Measure_Frame_ip	FrameType	Slot3.In1.Measured_Frame_ip = p !Done Slot3.In1.Measured_Frame_ip	Read-only. Get the measured frame type of the resolution being read from this input.

Property Name	Syntax	Type	Example	Description
EDID_Filename	Slot<n>.In<n>.EDID_Filename	String	Slot3.In1.EDID_Filename = s3i1.edd !Done Slot3.In1.EDID_Filename	Get or set the EDID file currently being used for this input.
LeftCrop	Slot<n>.In<n>.LeftCrop	Integer	Slot3.In1.LeftCrop = 0 !Done Slot3.In1.LeftCrop	Get or set the amount of left crop to be applied to this input.
RightCrop	Slot<n>.In<n>.RightCrop	Integer	Slot3.In1.RightCrop = 0 !Done Slot3.In1.RightCrop	Get or set the amount of right crop to be applied to this input.
TopCrop	Slot<n>.In<n>.TopCrop	Integer	Slot3.In1.TopCrop = 0 !Done Slot3.In1.TopCrop	Get or set the amount of top crop to be applied to this input.
BottomCrop	Slot<n>.In<n>.BottomCrop	Integer	Slot3.In1.BottomCrop = 0 !Done Slot3.In1.BottomCrop	Get or set the amount of bottom crop to be applied to this input.
AnH_Offset	Slot<n>.In<n>.AnH_Offset	Integer	Slot3.In1.AnH_Offset = 0 !Done Slot3.In1.AnH_Offset	Adjust the horizontal position of component analog input, measured in lines. Range from -100 to 100.
AnV_Offset	Slot<n>.In<n>.AnV_Offset	Integer	Slot6.In1.AnV_Offset = 0 !Done Slot6.In1.AnV_Offset	Adjust the vertical position of component analog input, measured in lines. Range from -100 to 100.
OnSrcLossColor	Slot<n>.In<n>.OnSrcLossColor	SrcLossColor	Slot6.In1.OnSrcLossColor = Blue !Done Slot6.In1.OnSrcLossColor	Get or set the colour to be displayed when the input source is lost.
HDCP_Enabled	Slot<n>.In<n>.HDCP_Enabled	HDCPSup	Slot3.In1.HDCP_Enabled = Supported !Done Slot3.In1.HDCP_Enabled	Get or set if HDCP is enabled for this source
HDCP_Required	Slot<n>.In<n>.HDCP_Required	HDCPReq	Slot3.In1.HDCP_Required = Off !Done Slot3.In1.HDCP_Required	Read-only. Get the HDCP capability of the input source.
HDMI	Slot<n>.In<n>.HDMI	FoundNot	Slot3.In1.HDMI = Found !Done Slot3.In1.HDMI	Read-only. Get the detected HDMI status.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot3.In1.PreviewVideoType = 0 !Done Slot3.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot3.In1.Equipment = !Done Slot3.In1.Equipment	Get or set the equipment connected to this input



Property Name	Syntax	Type	Example	Description
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot3.In1.CanFramelockTo = No !Done Slot3.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
AudioEnable	Slot1.In1.AudioEnable	Boolean	Slot1.In1.AudioEnable = On !Done Slot1.In1.AudioEnable	Enable the embedded input audio on an input (if present) On : Off Default; On
AudioLevel	Slot1.In1.AudioLevel	Integer	Slot1.In1.AudioLevel = 0 !Done Slot1.In1.AudioLevel	Get or set the embedded input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot1.In1.AudioMute	Boolean	Slot1.In1.AudioMute = Off !Done Slot1.In1.AudioMute	Mute the embedded input audio on an input (if present) On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 3 phase :.....-L; centres at 4, 5 (5). !Done Slot3.PhaseRetrain()	Initiate a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	Slot3.Module_Resolutions() 640x480p60;4:3; 640x480p72;4:3; ... Empty1000;4:3; Empty1001;4:3; Empty1002;4:3; Empty1003;4:3; Empty1004;4:3; Empty1005;4:3; Empty1006;4:3; Empty1007;4:3; Empty1008;4:3; Empty1009;4:3; !Done Slot3.Module_Resolutions()	List all of the supported resolutions for this slot. Custom resolutions will appear at the end of the list. The list is semicolon separated.
ForceLinkRefresh	Slot<n>.In<n>.ForceLinkRefresh()	Void	Slot3.In1.ForceLinkRefresh() !Done Slot3.In1.ForceLinkRefresh()	Reset the connection to the source.

## Events

Category	Event	Syntax	Example	Description
INPUT	STATUS_GROUP	STATUS_GROUP,<input >, <property>, <value>	!Event STATUS_GROUP,Slot1.In1,Status,OK	<p>Raised when an input property is changed.</p> <p>Properties;            Status; OK   Invalid            Measured_Resolution; &lt;a valid resolution&gt; or empty            Set_Resolution; &lt;a valid resolution&gt; or empty            CanFramelockTo; Yes   No            HDCP_Required; Required   Off            HDMI; Found   Not_found            Audio; Found   Off</p>

## HDBASE-T Input Module

This section covers the following modules:

AK67 2 input hdbase-t module

It is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot3.Cardtype = HDBASET 2-in Slot3.Carddata = <No Value> Slot3.In1 = <...> Slot3.In2 = <...> Slot3.PhaseRetrain() Slot3.Module_Resolutions() !Done Slot3	List all of the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot3.Cardtype = HDBASET 2-in !Done Slot3.Cardtype	Read-only. Get the type of the card in this slot
Carddata	Slot<n>.Carddata	void	Slot3.Carddata.BaseNo = 218092000121 Slot3.Carddata.SubNo = 0000000000 Slot3.Carddata.ProdNo = 0000000000 Slot3..Carddata.PTR = :::----- :::,,, centres at 30, 30 (29). !Done Slot3.Carddata	Returns card specific data BaseNo: base card serial number SubNo: sub card serial number ProdNo: assembly number PTR: phase training result
In<n>	Slot<n>.In<n>	List	Slot3.In1.FullName = In1 Slot3.In1.Status = OK Slot3.In1.Alias = s3i1 Slot3.In1.WindowList = Window1,Window2 Slot3.In1.AspectChoice = 4:3 Slot3.In1.Brightness = 0	List the properties for an Input on the given Slot. Where In<n> is the input on the card.  Note: AudInA-D, AFVChoiceA-D, AudioBars may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot3.In1.Contrast = 100 Slot3.In1.ColourScale = Auto Slot3.In1.TPG = Off Slot3.In1.Set_Resolution = 640x480p60 Slot3.In1.Measured_Resolution = 640x480p60 Slot3.In1.Measured_Width = 640 Slot3.In1.Measured_Height = 480 Slot3.In1.Measured_Field_Rate = 60 Slot3.In1.Measured_VTotal = 525 Slot3.In1.Measured_Frame_ip = p Slot3.In1.EDID_Filename = s3i1.edd Slot3.In1.ForceLinkRefresh() Slot3.In1.LeftCrop = 0 Slot3.In1.RightCrop = 0 Slot3.In1.TopCrop = 0 Slot3.In1.BottomCrop = 0 Slot3.In1.AnH_Offset = 0 Slot3.In1.AnV_Offset = 0 Slot3.In1.OnSrcLossColour = Blue Slot3.In1.HDCP_Enabled = Supported Slot3.In1.HDCP_Required = Off Slot3.In1.HDMI = Found Slot3.In1.Audio = Found Slot3.In1.AudInA = NULL Slot3.In1.AudInB = NULL Slot3.In1.AudInC = NULL Slot3.In1.AudInD = NULL Slot3.In1.AFVChoiceA = Slot3.In1.AudInA	

Property Name	Syntax	Type	Example	Description
			Slot3.In1.AFVChoiceB = Slot3.In1.AudInB Slot3.In1.AFVChoiceC = Slot3.In1.AudInC Slot3.In1.AFVChoiceD = Slot3.In1.AudInD Slot3.In1.View = NULL Slot3.In1.ViewPosCode = 0 Slot3.In1.AudioBars = 4 Slot3.In1.PreviewVideoType = 0 Slot3.In1.Equipment = Slot3.In1.CanFramelockTo = No Slot3.In1.dll = 16 Slot3.In1.imm = Yes !Done Slot3.In1	
FullName	Slot<n>.In<n>.FullName	String	Slot3.In1.FullName = In1 !Done Slot3.In1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.In<n>.Status	StatusEnum	Slot3.In1.Status = OK !Done Slot3.In1.Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot3.In1.Alias = s3i1 !Done Slot3.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
WindowList	Slot<n>.In<n>.WindowList	String	Slot3.In1.WindowList = Window1 !Done Slot3.In1.WindowList	Read only. Get the window that the slot is routed to.
Brightness	Slot<n>.In<n>.Brightness	Integer	Slot3.In1.Brightness = 0 !Done Slot3.In1.Brightness	Get or set the brightness adjustment for this input. Valid range is from -30 to 30

Property Name	Syntax	Type	Example	Description
Contrast	Slot<n>.In<n>.Contrast	Percentage	Slot3.In1.Contrast = 100 !Done Slot3.In1.Contrast	Get or set the contrast adjustment for the Input. Valid range is from 30% to 130%
ColourScale	Slot<n>.In<n>.ColourScale	ColourScale	Slot3.In1.ColourScale = Auto !Done Slot3.In1.ColourScale	Get or set the colour scale for this input.
TPG	Slot<n>.In<n>.TPG	Boolean	Slot3.In1.TPG = TPG1 !Done Slot3.In1.TPG = TPG1	Get or set to use the internal Test Pattern Generator (TPG1) for this input. Options are "Off" or "TPG1".
Set_Resolution	Slot<n>.In<n>.Set_Resolution	Resolution	Slot3.In1.Set_Resolution = 640x480p60 !Done Slot3.In1.Set_Resolution	Read-only. Get the current resolution set for this input.
Measured_Resolution	Slot<n>.In<n>.Measured_Resolution	Resolution	Slot3.In1.Measured_Resolution = 640x480p60 !Done Slot3.In1.Measured_Resolution	Read-only. Get the resolution being read from this Input.
Measured_Width	Slot<n>.In<n>.Measured_Width	Integer	Slot3.In1.Measured_Width = 640 !Done Slot3.In1.Measured_Width	Read-only. Get the width of the resolution being read from this input.
Measured_Height	Slot<n>.In<n>.Measured_Height	Integer	Slot3.In1.Measured_Height = 480 !Done Slot3.In1.Measured_Height	Read-only. Get the measured height of the resolution being read from this input.
Measured_Field_Rate	Slot<n>.In<n>.Measured_Field_Rate	Integer	Slot3.In1.Measured_Field_Rate = 60 !Done Slot3.In1.Measured_Field_Rate	Read-only. Get the measured field rate of the resolution being read from this input.
Measured_VTotal	Slot<n>.In<n>.Measured_VTotal	Integer	Slot3.In1.Measured_VTotal = 525 !Done Slot3.In1.Measured_VTotal	Read-only. Get the measured total vertical lines of the resolution being read from this input.
Measure_Frame_ip	Slot<n>.In<n>.Measure_Frame_ip	FrameType	Slot3.In1.Measured_Frame_ip = p !Done Slot3.In1.Measured_Frame_ip	Read-only. Get the measured frame type of the resolution being read from this input.

Property Name	Syntax	Type	Example	Description
EDID_Filename	Slot<n>.In<n>.EDID_Filename	String	Slot3.In1.EDID_Filename = s3i1.edd !Done Slot3.In1.EDID_Filename	Get or set the EDID file currently being used for this input.
LeftCrop	Slot<n>.In<n>.LeftCrop	Integer	Slot3.In1.LeftCrop = 0 !Done Slot3.In1.LeftCrop	Get or set the amount of left crop to be applied to this input.
RightCrop	Slot<n>.In<n>.RightCrop	Integer	Slot3.In1.RightCrop = 0 !Done Slot3.In1.RightCrop	Get or set the amount of right crop to be applied to this input.
TopCrop	Slot<n>.In<n>.TopCrop	Integer	Slot3.In1.TopCrop = 0 !Done Slot3.In1.TopCrop	Get or set the amount of top crop to be applied to this input.
BottomCrop	Slot<n>.In<n>.BottomCrop	Integer	Slot3.In1.BottomCrop = 0 !Done Slot3.In1.BottomCrop	Get or set the amount of bottom crop to be applied to this input.
AnH_Offset	Slot<n>.In<n>.AnH_Offset	Integer	Slot3.In1.AnH_Offset = 0 !Done Slot3.In1.AnH_Offset	Adjust the horizontal position of component analog input, measured in lines. Range from -100 to 100.
AnV_Offset	Slot<n>.In<n>.AnV_Offset	Integer	Slot6.In1.AnV_Offset = 0 !Done Slot6.In1.AnV_Offset	Adjust the vertical position of component analog input, measured in lines. Range from -100 to 100.
OnSrcLossColor	Slot<n>.In<n>.OnSrcLossColor	SrcLossColor	Slot6.In1.OnSrcLossColor = Blue !Done Slot6.In1.OnSrcLossColor	Get or set the colour to be displayed when the input source is lost.
HDCP_Enabled	Slot<n>.In<n>.HDCP_Enabled	HDCPSup	Slot3.In1.HDCP_Enabled = Supported !Done Slot3.In1.HDCP_Enabled	Get or set if HDCP is enabled for this source
HDCP_Required	Slot<n>.In<n>.HDCP_Required	HDCPReq	Slot3.In1.HDCP_Required = Off !Done Slot3.In1.HDCP_Required	Read-only. Get the HDCP capability of the input source.
HDMI	Slot<n>.In<n>.HDMI	FoundNot	Slot3.In1.HDMI = Found !Done Slot3.In1.HDMI	Read-only. Get the detected HDMI status.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot3.In1.PreviewVideoType = 0 !Done Slot3.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot3.In1.Equipment = !Done Slot3.In1.Equipment	Get or set the equipment connected to this input



Property Name	Syntax	Type	Example	Description
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot3.In1.CanFramelockTo = No !Done Slot3.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot3.In1.PreviewVideoType = 0 !Done Slot3.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot3.In1.Equipment = !Done Slot3.In1.Equipment	Get or set the equipment connected to this input
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot3.In1.CanFramelockTo = No !Done Slot3.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
HDBaseT	Slot<n>.In<n>.HDBaseT	Sub-Menu	Slot1.In1.HDBaseT = <...>	List the HDBaseT specific attributes for this card. See the HDBASE-T Sub-Menu section below.
AudioEnable	Slot1.In1.AudioEnable	Boolean	Slot1.In1.AudioEnable = On !Done Slot1.In1.AudioEnable	Enable the embedded input audio on an input (if present) On : Off Default; On
AudioLevel	Slot1.In1.AudioLevel	Integer	Slot1.In1.AudioLevel = 0 !Done Slot1.In1.AudioLevel	Get or set the embedded input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot1.In1.AudioMute	Boolean	Slot1.In1.AudioMute = Off !Done Slot1.In1.AudioMute	Mute the embedded input audio on an input (if present) On : Off Default; Off

## Events

Category	Event	Syntax	Example	Description
INPUT	STATUS_GROUP	STATUS_GROUP,<input >, <property>, <value>	!Event STATUS_GROUP,Slot1.In1,Status,OK	<p>Raised when an input property is changed.</p> <p>Properties;            Status; OK   Invalid            Measured_Resolution; &lt;a valid resolution&gt; or empty            Set_Resolution; &lt;a valid resolution&gt; or empty            CanFramelockTo; Yes   No            HDCP_Required; Required   Off            HDMI; Found   Not_found            Audio; Found   Off</p>

## HDMI Input Module

This section covers the following modules:

AK66 2xinput HDMI 4k

AK92 2xinput HDMI 4k

It is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot15 Slot15.Cardtype = HDMI_4K 2-in Slot15.Carddata = <...> Slot15.In1 = <...> Slot15.In2 = <...> Slot15.PhaseRetrain() Slot15.Module_Resolutions() !Done Slot15	List all of the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot3.Cardtype = HDMI_4K 2-in !Done Slot3.Cardtype	Read-only. Get the type of the card in this slot
Carddata	Slot<n>.Carddata	void	Slot3.Carddata.BaseNo = 218092000121 Slot3..Carddata.PTR = ::::----- :::::, centres at 30, 30 (29). !Done Slot3.Carddata	Returns card specific data BaseNo: base card serial number PTR: phase training result
In<n>	Slot<n>.In<n>	List	Slot15.In1.FullName = In1 Slot15.In1.Status = OK Slot15.In1.Alias = s1i1 Slot15.In1.WindowList = Window1 Slot15.In1.AspectChoice = 4:3 Slot15.In1.Brightness = 0 Slot15.In1.Contrast = 100	List the properties for an Input on the given Slot. Where In<n> is the input on the card.  Note: AudInA-D, AFVChoiceA-D, AudioBars may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot15.In1.ColourScale = Auto Slot15.In1.Dither = Off Slot15.In1.TPG = Off Slot15.In1.Set_Resolution = 2048x1152p60 Slot15.In1.Measured_Resolution = 2048x1152p60 Slot15.In1.Measured_Width = 2048 Slot15.In1.Measured_Height = 1152 Slot15.In1.Measured_Field_Rate = 60 Slot15.In1.Measured_VTotal = 1173 Slot15.In1.Measured_Frame_ip = p Slot15.In1.EDID_Filename = edid4k.edd Slot15.In1.ForceLinkRefresh() Slot15.In1.LeftCrop = 0 Slot15.In1.RightCrop = 0 Slot15.In1.TopCrop = 0 Slot15.In1.BottomCrop = 0 Slot15.In1.AnH_Offset = 0 Slot15.In1.AnV_Offset = 0 Slot15.In1.OnSrcLossColour = Blue Slot15.In1.HDCP_Enabled = Supported Slot15.In1.HDCP_Required = Required Slot15.In1.HDMI = Found Slot15.In1.Audio = Off Slot15.In1.PreviewVideoType = 0 Slot15.In1.Equipment = "Default 4K 16:9 Source" Slot15.In1.CanFramelockTo = No Slot15.In1.dll = 16 Slot15.In1.imm = Yes	

Property Name	Syntax	Type	Example	Description
			Slot15.In1.ClockDriveStrength = Hi_4x Slot15.In1.DataDriveStrength = Med_Hi_3x Slot15.In1.SyncDriveStrength = Med_Hi_3x !Done Slot15.In1	
FullName	Slot<n>.In<n>.FullName	String	Slot3.In1.FullName = In1 !Done Slot3.In1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.In<n>.Status	StatusEnum	Slot3.In1.Status = OK !Done Slot3.In1.Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot3.In1.Alias = s3i1 !Done Slot3.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
WindowList	Slot<n>.In<n>.WindowList	String	Slot3.In1.WindowList = Window1 !Done Slot3.In1.WindowList	Read only. Get the window that the slot is routed to.
Brightness	Slot<n>.In<n>.Brightness	Integer	Slot3.In1.Brightness = 0 !Done Slot3.In1.Brightness	Get or set the brightness adjustment for this input. Valid range is from -30 to 30
Contrast	Slot<n>.In<n>.Contrast	Percentage	Slot3.In1.Contrast = 100 !Done Slot3.In1.Contrast	Get or set the contrast adjustment for the Input. Valid range is from 30% to 130%
ColourScale	Slot<n>.In<n>.ColourScale	ColourScale	Slot3.In1.ColourScale = Auto !Done Slot3.In1.ColourScale	Get or set the colour scale for this input.
TPG	Slot<n>.In<n>.TPG	Boolean	Slot3.In1.TPG = TPG1 !Done Slot3.In1.TPG = TPG1	Get or set to use the internal Test Pattern Generator (TPG1) for this input. Options are "Off" or "TPG1".
Set_Resolution	Slot<n>.In<n>.Set_Resolution	Resolution	Slot3.In1.Set_Resolution = 640x480p60 !Done Slot3.In1.Set_Resolution	Read-only. Get the current resolution set for this input.

Property Name	Syntax	Type	Example	Description
Measured_Resolution	Slot<n>.In<n>.Measured_Resolution	Resolution	Slot3.In1.Measured_Resolution = 640x480p60 !Done Slot3.In1.Measured_Resolution	Read-only. Get the resolution being read from this Input.
Measured_Width	Slot<n>.In<n>.Measured_Width	Integer	Slot3.In1.Measured_Width = 640 !Done Slot3.In1.Measured_Width	Read-only. Get the width of the resolution being read from this input.
Measured_Height	Slot<n>.In<n>.Measured_Height	Integer	Slot3.In1.Measured_Height = 480 !Done Slot3.In1.Measured_Height	Read-only. Get the measured height of the resolution being read from this input.
Measured_Field_Rate	Slot<n>.In<n>.Measured_Field_Rate	Integer	Slot3.In1.Measured_Field_Rate = 60 !Done Slot3.In1.Measured_Field_Rate	Read-only. Get the measured field rate of the resolution being read from this input.
Measured_VTotal	Slot<n>.In<n>.Measured_VTotal	Integer	Slot3.In1.Measured_VTotal = 525 !Done Slot3.In1.Measured_VTotal	Read-only. Get the measured total vertical lines of the resolution being read from this input.
Measure_Frame_ip	Slot<n>.In<n>.Measure_Frame_ip	FrameType	Slot3.In1.Measured_Frame_ip = p !Done Slot3.In1.Measured_Frame_ip	Read-only. Get the measured frame type of the resolution being read from this input.
EDID_Filename	Slot<n>.In<n>.EDID_Filename	String	Slot3.In1.EDID_Filename = s3i1.edd !Done Slot3.In1.EDID_Filename	Get or set the EDID file currently being used for this input.
LeftCrop	Slot<n>.In<n>.LeftCrop	Integer	Slot3.In1.LeftCrop = 0 !Done Slot3.In1.LeftCrop	Get or set the amount of left crop to be applied to this input.
RightCrop	Slot<n>.In<n>.RightCrop	Integer	Slot3.In1.RightCrop = 0 !Done Slot3.In1.RightCrop	Get or set the amount of right crop to be applied to this input.
TopCrop	Slot<n>.In<n>.TopCrop	Integer	Slot3.In1.TopCrop = 0 !Done Slot3.In1.TopCrop	Get or set the amount of top crop to be applied to this input.
BottomCrop	Slot<n>.In<n>.BottomCrop	Integer	Slot3.In1.BottomCrop = 0 !Done Slot3.In1.BottomCrop	Get or set the amount of bottom crop to be applied to this input.
AnH_Offset	Slot<n>.In<n>.AnH_Offset	Integer	Slot3.In1.AnH_Offset = 0 !Done Slot3.In1.AnH_Offset	Adjust the horizontal position of component analog input, measured in lines. Range from -100 to 100.

Property Name	Syntax	Type	Example	Description
AnV_Offset	Slot<n>.In<n>.AnV_Offset	Integer	Slot6.In1.AnV_Offset = 0 !Done Slot6.In1.AnV_Offset	Adjust the vertical position of component analog input, measured in lines. Range from -100 to 100.
OnSrcLossColor	Slot<n>.In<n>.OnSrcLossColor	SrcLossColor	Slot6.In1.OnSrcLossColor = Blue !Done Slot6.In1.OnSrcLossColor	Get or set the colour to be displayed when the input source is lost.
HDCP_Enabled	Slot<n>.In<n>.HDCP_Enabled	HDCPSup	Slot3.In1.HDCP_Enabled = Supported !Done Slot3.In1.HDCP_Enabled	Get or set if HDCP is enabled for this source
HDCP_Required	Slot<n>.In<n>.HDCP_Required	HDCPReq	Slot3.In1.HDCP_Required = Off !Done Slot3.In1.HDCP_Required	Read-only. Get the HDCP capability of the input source.
HDMI	Slot<n>.In<n>.HDMI	FoundNot	Slot3.In1.HDMI = Found !Done Slot3.In1.HDMI	Read-only. Get the detected HDMI status.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot3.In1.PreviewVideoType = 0 !Done Slot3.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot3.In1.Equipment = !Done Slot3.In1.Equipment	Get or set the equipment connected to this input
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot3.In1.CanFramelockTo = No !Done Slot3.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
AudioEnable	Slot1.In1.AudioEnable	Boolean	Slot1.In1.AudioEnable = On !Done Slot1.In1.AudioEnable	Enable the embedded input audio on an input (if present) On : Off Default; On
AudioLevel	Slot1.In1.AudioLevel	Integer	Slot1.In1.AudioLevel = 0 !Done Slot1.In1.AudioLevel	Get or set the embedded input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot1.In1.AudioMute	Boolean	Slot1.In1.AudioMute = Off !Done Slot1.In1.AudioMute	Mute the embedded input audio on an input (if present) On : Off Default; Off

## Events

Category	Event	Syntax	Example	Description
INPUT	STATUS_GROUP	STATUS_GROUP,<input >, <property>, <value>	!Event STATUS_GROUP,Slot1.In1,Status,OK	<p>Raised when an input property is changed.</p> <p>Properties;            Status; OK   Invalid            Measured_Resolution; &lt;a valid resolution&gt; or empty            Set_Resolution; &lt;a valid resolution&gt; or empty            CanFramelockTo; Yes   No            HDCP_Required; Required   Off            HDMI; Found   Not_found            Audio; Found   Off</p>



## SDI Input Module

This section covers the following modules:

AK20 HD-SDI 4 input module

Ak21 3G-SDI 2 input module

It is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot2.Cardtype = SDI_HD 4-in Slot2.Carddata = <...> Slot2.In1 = <...> Slot2.In2 = <...> Slot2.In3 = <...> Slot2.In4 = <...> Slot2.PhaseRetrain() Slot2.Module_Resolutions() !Done Slot2	List the properties of the card in this slot or "NO CARD" if the slot is empty. Note that the 3G-SDI 2 input module does not have In3 and In4.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot2.Cardtype = SDI_HD 4-in !Done Slot2.Cardtype	Read-only. Get the type of the card in this slot
Carddata	Slot<n>.Carddata	void	Slot3.Carddata.BaseNo = 218092000121 Slot3..Carddata.PTR = :::----- :::,,, centres at 30, 30 (29). !Done Slot3.Carddata	Returns card specific data BaseNo: base card serial number PTR: phase training result
In<n>	Slot<n>.In<n>	List	Slot2.In1.FullName = In1 Slot2.In1.Status = OK Slot2.In1.Alias = s2i1 Slot2.In1.WindowList = Window1 Slot2.In1.TypeChoice = SDI Slot2.In1.AspectChoice = 4:3 Slot2.In1.Brightness = 0	List the properties for an Input on the given Slot. Where <n> is the number of the input on the card.

Property Name	Syntax	Type	Example	Description
			Slot2.In1.Contrast = 100 Slot2.In1.ColourScale = Auto Slot2.In1.TPG = Off Slot2.In1.Set_Resolution = 1920x1080p30 Slot2.In1.Measured_Resolution = 1920x1080p30 Slot2.In1.Measured_Width = 1920 Slot2.In1.Measured_Height = 1080 Slot2.In1.Measured_Field_Rate = 30 Slot2.In1.Measured_VTotal = 1125 Slot2.In1.Measured_Frame_ip = p Slot2.In1.LeftCrop = 0 Slot2.In1.RightCrop = 0 Slot2.In1.TopCrop = 0 Slot2.In1.BottomCrop = 0 Slot2.In1.OnSrcLossColour = Blue Slot2.In1.HDMI = Not_Found Slot2.In1.Audio = Off Slot2.In1.AudInA = NULL Slot2.In1.AudInB = NULL Slot2.In1.AudInC = NULL Slot2.In1.AudInD = NULL Slot2.In1.AFVChoiceA = Slot2.In1.AudInA Slot2.In1.AFVChoiceB = Slot2.In1.AudInB Slot2.In1.AFVChoiceC = Slot2.In1.AudInC Slot2.In1.AFVChoiceD = Slot2.In1.AudInD Slot2.In1.View = NULL Slot2.In1.ViewPosCode = 0 Slot2.In1.AudioBars = 4	Note: AudInA-D, AFVChoiceA-D, AudioBars may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot2.In1.PreviewVideoType = 0 Slot2.In1.Equipment = Slot2.In1.CanFramelockTo = Yes !Done Slot2.In1	
FullName	Slot<n>.In<n>.FullName	String	Slot2.In1.FullName = In1 !Done Slot2.In1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.In<n>.Status	StatusEnum	Slot2.In1.Status = OK !Done Slot2.In1.Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot2.In1.Alias = s2i1 !Done Slot2.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
WindowList	Slot<n>.In<n>.WindowList	String	Slot2.In1.WindowList = Window1 !Done Slot2.In1.WindowList	Read only. Get the window that the slot is routed to.
TypeChoice	Slot<n>.In<n>.TypeChoice	TypeChoice	Slot2.In1.TypeChoice = SDI !Done Slot2.In1.TypeChoice	Read only. Selects the type of input.
Brightness	Slot<n>.In<n>.Brightness	Integer	Slot2.In1.Brightness = 0 !Done Slot2.In1.Brightness	Get or set the brightness adjustment for this input. Valid range is from -30 to 30
Contrast	Slot<n>.In<n>.Contrast	Percentage	Slot2.In1.Contrast = 100 !Done Slot2.In1.Contrast	Get or set the contrast adjustment for the Input. Valid range is from 30% to 130%
ColourScale	Slot<n>.In<n>.ColourScale	ColourScale	Slot2.In1.ColourScale = Auto !Done Slot2.In1.ColourScale	Get or set the colour scale for this input.
TPG	Slot<n>.In<n>.TPG	Boolean	Slot2.In1.TPG = Off !Done Slot2.In1.TPG	Get or set to use the internal Test Pattern Generator (TPG1) for this input. Options are "Off" or "TPG1".

Property Name	Syntax	Type	Example	Description
Set_Resolution	Slot<n>.In<n>.Set_Resolution	Resolution	Slot2.In1.Set_Resolution = 1920x1080p30 !Done Slot2.In1.Set_Resolution	Read-only. Get the current resolution set for this input.
Measured_Resolution	Slot<n>.In<n>.Measured_Resolution	Resolution	Slot2.In1.Measured_Resolution = 1920x1080p30 !Done Slot2.In1.Measured_Resolution	Read-only. Get the resolution being read from this Input.
Measured_Width	Slot<n>.In<n>.Measured_Width	Integer	Slot2.In1.Measured_Width = 1920 !Done Slot2.In1.Measured_Width	Read-only. Get the width of the resolution being read from this input.
Measured_Height	Slot<n>.In<n>.Measured_Height	Integer	Slot2.In1.Measured_Height = 1080 !Done Slot2.In1.Measured_Height	Read-only. Get the measured height of the resolution being read from this input.
Measured_Field_Rate	Slot<n>.In<n>.Measured_Field_Rate	Integer	Slot2.In1.Measured_Field_Rate = 30 !Done Slot2.In1.Measured_Field_Rate	Read-only. Get the measured field rate of the resolution being read from this input.
Measured_VTotal	Slot<n>.In<n>.Measured_VTotal	Integer	Slot2.In1.Measured_VTotal = 1125 !Done Slot2.In1.Measured_VTotal	Read-only. Get the measured total vertical lines of the resolution being read from this input.
Measure_Frame_ip	Slot<n>.In<n>.Measure_Frame_ip	FrameType	Slot2.In1.Measured_Frame_ip = p !Done Slot2.In1.Measured_Frame_ip	Read-only. Get the measured frame type of the resolution being read from this input.
LeftCrop	Slot<n>.In<n>.LeftCrop	Integer	Slot2.In1.LeftCrop = 0 !Done Slot2.In1.LeftCrop	Get or set the amount of left crop to be applied to this input.
RightCrop	Slot<n>.In<n>.RightCrop	Integer	Slot2.In1.RightCrop = 0 !Done Slot2.In1.RightCrop	Get or set the amount of right crop to be applied to this input.
TopCrop	Slot<n>.In<n>.TopCrop	Integer	Slot2.In1.TopCrop = 0 !Done Slot2.In1.TopCrop	Get or set the amount of top crop to be applied to this input.

Property Name	Syntax	Type	Example	Description
BottomCrop	Slot<n>.In<n>.BottomCrop	Integer	Slot2.In1.BottomCrop = 0 !Done Slot2.In1.BottomCrop	Get or set the amount of bottom crop to be applied to this input.
HDMI	Slot<n>.In<n>.HDMI	FoundNot	Slot2.In1.HDMI = Not_Found !Done Slot2.In1.HDMI	Read-only. Get the detected HDMI status.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot2.In1.PreviewVideoType = 0 !Done Slot2.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot2.In1.Equipment = !Done Slot2.In1.Equipment	Get or set the equipment connected to this input
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot2.In1.CanFramelockTo = Yes !Done Slot2.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
AudioEnable	Slot1.In1.AudioEnable	Boolean	Slot1.In1.AudioEnable = On !Done Slot1.In1.AudioEnable	Enable the embedded input audio on an input (if present) On : Off Default; On
AudioLevel	Slot1.In1.AudioLevel	Integer	Slot1.In1.AudioLevel = 0 !Done Slot1.In1.AudioLevel	Get or set the embedded input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot1.In1.AudioMute	Boolean	Slot1.In1.AudioMute = Off !Done Slot1.In1.AudioMute	Mute the embedded input audio on an input (if present) On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 2 phase -----L:.....:-----, centres at 15, 15 (15). !Done Slot2.PhaseRetrain()	Initiate a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	<pre> 720x487i59.94;4:3; 720x576i50;4:3; 1280x720p23.98;16:9; 1280x720p24;16:9; 1280x720p25;16:9; 1280x720p29.97;16:9; 1280x720p30;16:9; 1280x720p50;16:9; 1280x720p59.94;16:9; 1280x720p60;16:9; 1920x1080i50;16:9; 1920x1080i59.94;16:9; 1920x1080i60;16:9; 1920x1080p23.98;16:9; 1920x1080p24;16:9; 1920x1080p25;16:9; 1920x1080p29.97;16:9; 1920x1080p30;16:9; 1920x1080p50;16:9; 1920x1080p59.94;16:9; 1920x1080p60;16:9; !Done Slot2.Module_Resolutions() </pre>	<p>List all of the supported resolutions for this slot.</p> <p>The list is semicolon separated.</p> <p>Note that the following resolutions are for the 3G-SDI module only:</p> <ul style="list-style-type: none"> <li>1920x1080p50;16:9;</li> <li>1920x1080p59.94;16:9;</li> <li>1920x1080p60;16:9;</li> </ul> <p>Custom resolutions may not be used and will not appear.</p>

## Events

Category	Event	Syntax	Example	Description
INPUT	STATUS_GROUP	STATUS_GROUP,<input >, <property>, <value>	!Event STATUS_GROUP,Slot1.In1,Status,OK	<p>Raised when an input property is changed.</p> <p>Properties;            Status; OK   Invalid            Measured_Resolution; &lt;a valid resolution&gt; or empty            Set_Resolution; &lt;a valid resolution&gt; or empty            CanFramelockTo; Yes   No            Audio; Found   Off</p>

## Streaming Media and 4K Playback Input Module

### For use with CORIOmaster only

This section covers the following modules:

AK84 Streaming media and 4k playback input module

It is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	<pre>Slot2.Cardtype = MEDIA_4K IN Slot2.Storage = &lt;...&gt; Slot2.Networking = &lt;...&gt; Slot2.Carddata = &lt;...&gt; Slot2.In1 = &lt;...&gt; Slot2.In2 = &lt;...&gt; Slot2.PhaseRetrain() Slot2.Module_Resolutions() Slot2.Update = &lt;...&gt; Slot2.Status = READY! Done Slot2</pre>	List the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	<pre>Slot2.Cardtype = MEDIA_4K IN !Done Slot2.Cardtype</pre>	Read-only. Get the type of the card in this slot



Property Name	Syntax	Type	Example	Description
Carddata	Slot<n>.Carddata	void	Slot3.Carddata.BaseNo = 218092000121 Slot3.Carddata.SubNo = 0000000000 Slot3.Carddata.ProdNo = 0000000000 Slot3..Carddata.PTR = ::::----- :::::, centres at 30, 30 (29). Slot3.Carddata.mVoltIn = 12076 Slot3.Carddata.mAmpIn = 848 Slot3.Carddata.uWattIn = 10240448 Slot3.Carddata.Alerts = OK Slot3.Carddata.CoreTemperature = 75 Slot3.Carddata.Version = fw:0x002b,api:0x0012 !Done Slot3.Carddata	Returns card specific data BaseNo: base card serial number SubNo: sub card serial number ProdNo: assembly number PTR: phase training result mVoltIn: measured 12V input rail mAmpIn: measured current consumed uWattIn: Instantaneous power consumption Alerts: Values are OK,Over_temperature,Warning_temperature,Over_power Version: module firmware version
In<n>	Slot<n>.In<n>	List	Slot2.In1.FullName = In1 Slot2.In1.Status = OK Slot2.In1.Alias = s2i1 Slot2.In1.WindowList = Window1 Slot2.In1.AspectChoice = 4:3 Slot2.In1.Brightness = 0 Slot2.In1.Contrast = 100 Slot2.In1.ColourScale = Auto Slot2.In1.TPG = Off Slot2.In1.Set_Resolution = 1920x1080p60 Slot2.In1.Measured_Resolution = 1920x1080p60 Slot2.In1.Measured_Width = 1920 Slot2.In1.Measured_Height = 1080 Slot2.In1.Measured_Field_Rate = 60 Slot2.In1.Measured_VTotal = 1125	List the properties for an Input on the given Slot. Where <n> is the number of the input on the card.  Note: AudInA-D, AFVChoiceA-D, AudioBars may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot2.In1.Measured_Frame_ip = p Slot2.In1.EDID_Filename = edid4k.edd Slot2.In1.ForceLinkRefresh() Slot2.In1.LeftCrop = 0 Slot2.In1.RightCrop = 0 Slot2.In1.TopCrop = 0 Slot2.In1.BottomCrop = 0 Slot2.In1.AnH_Offset = 0 Slot2.In1.AnV_Offset = 0 Slot2.In1.OnSrcLossColour = Blue Slot2.In1.OnSrcLossColour = Blue Slot2.In1.HDCP_Required = Off Slot2.In1.HDMI = Found Slot2.In1.Audio = Off Slot2.In1.AudInA = NULL Slot2.In1.AudInB = NULL Slot2.In1.AudInC = NULL Slot2.In1.AudInD = NULL Slot2.In1.AFVChoiceA = Slot2.In1.AudInA Slot2.In1.AFVChoiceB = Slot2.In1.AudInB Slot2.In1.AFVChoiceC = Slot2.In1.AudInC Slot2.In1.AFVChoiceD = Slot2.In1.AudInD Slot2.In1.AudioBars = 0 Slot2.In1.PreviewVideoType = 0 Slot2.In1.Equipment = "Default 16:9 Source" Slot2.In1.CanFramelockTo = No	

Property Name	Syntax	Type	Example	Description
			Slot2.In1.dll = 16 Slot2.In1.imm = Yes Slot2.In1.ClockDriveStrength = Hi_4x Slot2.In1.DataDriveStrength = Med_Hi_3x Slot2.In1.SyncDriveStrength = Med_Hi_3x Slot2.In1.ActiveQueue = <...> Slot2.In1.QueueItems = <...> !Done Slot2.In1	
FullName	Slot<n>.In<n>.FullName	String	Slot2.In1.FullName = In1 !Done Slot2.In1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.In<n>.Status	StatusEnum	Slot2.In1.Status = OK !Done Slot2.In1.Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot2.In1.Alias = s2i1 !Done Slot2.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
WindowList	Slot<n>.In<n>.WindowList	String	Slot2.In1.WindowList = Window1 !Done Slot2.In1.WindowList	Read only. Get the window that the slot is routed to.
AspectChoice	Slot<n>.In<n>.AspectChoice	AspectRatio	Slot2.In1.AspectChoice = 4:3 !Done Slot2.In1.AspectChoice	Get or set the aspect ratio for this input
Brightness	Slot<n>.In<n>.Brightness	Integer	Slot2.In1.Brightness = 0 !Done Slot2.In1.Brightness	Get or set the brightness adjustment for this input. Valid range is from -30 to 30
Contrast	Slot<n>.In<n>.Contrast	Percentage	Slot2.In1.Contrast = 100 !Done Slot2.In1.Contrast	Get or set the contrast adjustment for the Input. Valid range is from 30% to 130%

Property Name	Syntax	Type	Example	Description
ColourScale	Slot<n>.In<n>.ColourScale	ColourScale	Slot2.In1.ColourScale = Auto !Done Slot2.In1.ColourScale	Get or set the colour scale for this input.
TPG	Slot<n>.In<n>.TPG	Boolean	Slot2.In1.TPG = Off !Done Slot2.In1.TPG	Get or set to use the internal Test Pattern Generator (TPG1) for this input. Options are "Off" or "TPG1".
Set_Resolution	Slot<n>.In<n>.Set_Resolution	Resolution	Slot2.In1.Set_Resolution = 1920x1080p60 !Done Slot2.In1.Set_Resolution	Read-only. Get the current resolution set for this input.
Measured_Resolution	Slot<n>.In<n>.Measured_Resolution	Resolution	Slot2.In1.Measured_Resolution = 1920x1080p60 !Done Slot2.In1.Measured_Resolution	Read-only. Get the resolution being read from this Input.
Measured_Width	Slot<n>.In<n>.Measured_Width	Integer	Slot2.In1.Measured_Width = 1920 !Done Slot2.In1.Measured_Width	Read-only. Get the width of the resolution being read from this input.
Measured_Height	Slot<n>.In<n>.Measured_Height	Integer	Slot2.In1.Measured_Height = 1080 !Done Slot2.In1.Measured_Height	Read-only. Get the measured height of the resolution being read from this input.
Measured_Field_Rate	Slot<n>.In<n>.Measured_Field_Rate	Integer	Slot2.In1.Measured_Field_Rate = 60 !Done Slot2.In1.Measured_Field_Rate	Read-only. Get the measured field rate of the resolution being read from this input.
Measured_VTotal	Slot<n>.In<n>.Measured_VTotal	Integer	Slot2.In1.Measured_VTotal = 1125 !Done Slot2.In1.Measured_VTotal	Read-only. Get the measured total vertical lines of the resolution being read from this input.
Measure_Frame_ip	Slot<n>.In<n>.Measure_Frame_ip	FrameType	Slot2.In1.Measured_Frame_ip = p !Done Slot2.In1.Measured_Frame_ip	Read-only. Get the measured frame type of the resolution being read from this input.
LeftCrop	Slot<n>.In<n>.LeftCrop	Integer	Slot2.In1.LeftCrop = 0 !Done Slot2.In1.LeftCrop	Get or set the amount of left crop to be applied to this input.
RightCrop	Slot<n>.In<n>.RightCrop	Integer	Slot2.In1.RightCrop = 0 !Done Slot2.In1.RightCrop	Get or set the amount of right crop to be applied to this input.

Property Name	Syntax	Type	Example	Description
TopCrop	Slot<n>.In<n>.TopCrop	Integer	Slot2.In1.TopCrop = 0 !Done Slot2.In1.TopCrop	Get or set the amount of top crop to be applied to this input.
BottomCrop	Slot<n>.In<n>.BottomCrop	Integer	Slot2.In1.BottomCrop = 0 !Done Slot2.In1.BottomCrop	Get or set the amount of bottom crop to be applied to this input.
HDMI	Slot<n>.In<n>.HDMI	FoundNot	Slot2.In1.HDMI = Not_Found !Done Slot2.In1.HDMI	Read-only. Get the detected HDMI status.
Audio	Slot<n>.In<n>.Audio	FoundOff	Slot2.In1.Audio = Off !Done Slot2.In1.Audio	Read only. Get if audio is available for this input.
AudInA	Slot<n>.In<n>.AudInA	String	Slot2.In1.AudInA = NULL !Done Slot2.In1.AudInA	Read only. Defines the audio channel input for channel A
AudInB	Slot<n>.In<n>.AudInB	String	Slot2.In1.AudInB = NULL !Done Slot2.In1.AudInB	Defines the audio channel input for channel B
AudInC	Slot<n>.In<n>.AudInC	String	Slot2.In1.AudInC = NULL !Done Slot2.In1.AudInC	Defines the audio channel input for channel C
AudInD	Slot<n>.In<n>.AudInD	String	Slot2.In1.AudInD = NULL !Done Slot2.In1.AudInD	Defines the audio channel input for channel D
AFVChoiceA	Slot<n>.In<n>.AFVChoiceA	AudiolInput	Slot2.In1.AFVChoiceA = Slot2.In1.AudInA !Done Slot2.In1.AFVChoiceA	Get or set the audio source channel to use in Audio Follow Video mode
AFVChoiceB	Slot<n>.In<n>.AFVChoiceB	AudiolInput	Slot2.In1.AFVChoiceB = Slot2.In1.AudInB !Done Slot2.In1.AFVChoiceB	Get or set the audio source channel to use in Audio Follow Video mode
AFVChoiceC	Slot<n>.In<n>.AFVChoiceC	AudiolInput	Slot2.In1.AFVChoiceC = Slot2.In1.AudInC !Done Slot2.In1.AFVChoiceC	Get or set the audio source channel to use in Audio Follow Video mode
AFVChoiceD	Slot<n>.In<n>.AFVChoiceD	AudiolInput	Slot2.In1.AFVChoiceD = Slot2.In1.AudInD !Done Slot2.In1.AFVChoiceD	Get or set the audio source channel to use in Audio Follow Video mode

Property Name	Syntax	Type	Example	Description
AudioBars	Slot<n>.In<n>.AudioBars	Integer	Slot2.In1.AudioBars = 2 !Done Slot2.In1.AudioBars	Get or set the number of audio bars to show on the monitorcard screen for this input. The range is 0 to the number of audio channels.
PreviewVideoType	Slot<n>.In<n>.PreviewVideoType	Integer	Slot2.In1.PreviewVideoType = 0 !Done Slot2.In1.PreviewVideoType	Get or set the type of Preview Video (used in UI).
Equipment	Slot<n>.In<n>.Equipment	String	Slot2.In1.Equipment = "Default 16:9 Source" !Done Slot2.In1.Equipment	Get or set the equipment connected to this input
CanFramelockTo	Slot<n>.In<n>.CanFramelockTo	Boolean	Slot2.In1.CanFramelockTo = Yes !Done Slot2.In1.CanFramelockTo	Read only. Get if the input can be used as a Framelock reference.
ChannelMode	Slot<n>.ChannelMode	ChannelModeEnum	Slot1.ChannelMode = Dual !Done Slots.Slot1.ChannelMode = Dual	Gets or sets the card channel configuration. The card to have either a single 4Kp30 input (Single) or dual 1080p60 inputs (Dual)
Networking	Slot<n>.Networking	List	Slot1.Networking.Mode = On Slot1.Networking.IP_Address = 192.168.0.10 Slot1.Networking.IP_Subnet_Mask = 255.255.255.0 Slot1.Networking.IP_Gateway = 192.168.0.1 Slot1.Networking.IP_DNS1 = 192.168.0.254 Slot1.Networking.IP_DNS2 = Slots.Slot1.Networking.DHCP = <...> Slot1.Networking.RestartEthernet() !Done Slots.Slot1.Networking	Lists the available network settings which can be changed

Property Name	Syntax	Type	Example	Description
Mode	Slot<n>.Networking.Mode	Enum	Slot1.Networking.Mode = Off !Done Slot1.Networking.Mode = Off	Gets or sets the current networking mode; Off, Static or DHCP
DHCP	Slot<n>.Networking.DHCP	List	Slot1.Networking.DHCP.IP_Address = 192.168.0.10 Slot1.Networking.DHCP.IP_Subnet_Mask = 255.255.255.0 Slot1.Networking.DHCP.IP_Gateway = 192.168.0.1 Slot1.Networking.DHCP.IP_DNS1 = 192.168.0.254 Slot1.Networking.DHCP.IP_DNS2 = !Done Slot1.Networking.DHCP	Lists the available network DHCP settings which can be changed. Used if Networking.Mode = DHCP
LinkSpeed	Slot<n>.Networking.LinkSpeed	Integer	Slot3.Networking.LinkSpeed = 1000 !Done Slot3.Networking.LinkSpeed	Gets the speed of the connected network in Mbps.
USB	Slot<n>.Storage.USB	List	Slot1.Storage.USB.ListDirectory(string,byte,int,int) Slot1.Storage.USB.Name = "My_USB" Slot1.Storage.USB.RootPath = "/usb0" !Done Slot1.Storage.USB	Show all properties and functions for the USB storage component of the card
Local	Slot<n>.Storage.Local	List	Slots.Slot1.Storage.Local.Name = "Local" Slots.Slot1.Storage.Local.Size = 1073741824 Slots.Slot1.Storage.Local.Free = 2147483648 Slots.Slot1.Storage.Local.RootPath = "/usr0" !Done Slots.Slot1.Storage.Local	Show all properties and functions for the local storage component of the card

Property Name	Syntax	Type	Example	Description
USB.Name	Slot<n>.Storage.USB.Name	String	Slot1.Storage.USB.Name = "My Device" Done Slot1.Storage.USB.Name	Get the name of the connected USB device
ActiveQueue	Slot<n>.In<n>.ActiveQueue	Playlist	Slot1.In2.ActiveQueue.Resolution = 1920x1080p60 Slot1.In2.ActiveQueue.CurrentIndex = 5 Slot1.In2.ActiveQueue.Status = Idle Slot1.In2.ActiveQueue.PlayMode = Single Slot1.In2.ActiveQueue.Play() Slot1.In2.ActiveQueue.Stop() Slot1.In2.ActiveQueue.Pause() Slot1.In2.ActiveQueue.SkipForward() Slot1.In2.ActiveQueue.SkipBackward() Slot1.In2.ActiveQueue.InsertItem(int,int ,string,string,int, string, int, int) Slot1.In2.ActiveQueue.PlayOnStartup = Off Slot1.In2.ActiveQueue.RemoveItem(int) Slot1.In2.ActiveQueue.MoveItem(int,int ) !Done Slot1.In2.ActiveQueue	Returns the details for the play queue for the selected channel
CurrentIndex	Slot<n>.In<n>.ActiveQueue.CurrentIndex	Integer	Slot1.In2.ActiveQueue.CurrentIndex = 3 !Done Slot1.In2.ActiveQueue.CurrentIndex	Get the index of the currently playing item in the play queue. The index matches the number of the Item in the Items list
Status	Slot<n>.In<n>.ActiveQueue.Status	ChannelStatusEnum	Slot1.In2.ActiveQueue.Status = Idle !Done Slot1.In2.ActiveQueue.Status	Get the status for the channel. The following status values are supported: Idle, Configured, Connecting, Playing, Paused, Disconnecting, Retrying



Property Name	Syntax	Type	Example	Description
ListResolutions	Slot<n>.In<n>.ActiveQueue.ListResolutions()	List	3840x2160p30 3840x2160p29.97 ... 640x480p60 !Done Slots.Slot1.In1.ActiveQueue.ListResolutions()	Gets a list of supported resolutions for each of the connectors. Each resolution is returned as a string on a new line.
Resolution	Slot<n>.In<n>.ActiveQueue.Resolution	String	Slot1.In2.ActiveQueue.Resolution = 1280x720p60 !Done Slot1.In2.ActiveQueue.Resolution	Get and set the resolution for the play queue. All items in the queue will be played at this resolution. Note: if the native resolution is not the same then you may have noticeable frame dropping
PlayMode	Slot<n>.In<n>.ActiveQueue.PlayMode	String	Slot1.In2.ActiveQueue.PlayMode = Repeat !Done Slot1.In2.ActiveQueue.PlayMode	Get and set the play mode of the play queue. Single = The queue will play only once (no repeat) Repeat = The queue will loop indefinitely
PlayOnStartup	Slot<n>.In<n>.ActiveQueue.PlayOnStartup	enum	Slot1.In2.ActiveQueue.PlayOnStartup = On !Done Slot1.In2.ActiveQueue.PlayOnStartup	Get and set whether the play queue will automatically start playback on device boot. On = start playback of play queue on device boot Off = do not start play queue on boot

Property Name	Syntax	Type	Example	Description
LoadPlaylist	Slot<n>.In<n>.ActiveQueue.Lo adPlayList(<string> playlist)	Function	Slot2.In1.ActiveQueue.LoadPlayList ("Resources.Playlists.Playlist1") !Done Slot2.In1.ActiveQueue.LoadPlayList ()	<p>Loads the specified playlist into the playqueue. The parameter <i>playlist</i> is the full alias of the playlist, e.g. "Resources.Playlists.Playlist1"</p> <p>The playlist items are loaded into the queue in the current input module channel.</p> <p>This will stop the queue if currently playing but it will not automatically start playback once the items are loaded</p> <p>If you attempt to play a playlist on an input that does not match the Slot, then the command will fail and no items are loaded.</p>

Property Name	Syntax	Type	Example	Description
QueueItems	Slot<n>.In<n>.QueueItems	List	<pre>Slot2.In1.QueueItems Slot2.In1.QueueItems.Item1 = (8,NULL,"file:///usb0/Interstellar%20- %20Docking%20Scene%20[1080p;%20 60%20FPS;%20IMAX].mp4",243,Auto,1, OK,0,0) Slot2.In1.QueueItems.Item2 = (8,NULL,"file:///usb0/Everything%20Star ts%20Again%2030.mp4",52,Auto,1,OK,0 ,0) Slot2.In1.QueueItems.Item3 = (1,"ipstream","rtsp://192.168.1.0",300,A uto,1,OK,0,1) Slot2.In1.QueueItems.Item4 = (8,NULL,"file:///usb0/PASSENGERS%20 Official%20Trailer%20[4K%20Ultra%20 HD].mp4",152,Auto,1,OK,0,0) Slot2.In1.QueueItems.Item5 = (8,NULL,"file:///usb0/harveyGoodall_Co mp_Upload.mp4",7,Auto,1,OK,0,0) Slot2.In1.QueueItems.Item6 = NULL .. Slot2.In1.QueueItems.Item20 = NULL !Done Slot2.In1.QueueItems</pre>	<p>Get the list of items in the play queue. All available items are returned even if they empty. Empty items are shown as "NULL".</p> <p>The format for each is as follows:  (&lt;type&gt;,&lt;friendlyName&gt;,&lt;uri&gt;,&lt;duration&gt;,&lt;protocol&gt;,&lt;retries&gt;,&lt;status&gt;,&lt;resultCode&gt;,&lt;low-latency&gt;)</p> <p><i>type</i> is represented as an int with the following values:  1 = Video Stream  2 = Text File  4 = Image File  8 = Video File</p> <p><i>friendlyName</i> - Can be NULL or a string  <i>uri</i>  <i>duration</i> - (seconds)  <i>protocol</i> - Is currently always set to  <i>Auto retries</i> - no retries = 0, retry (for duration of the clip) = 1  <i>status</i> - OK, Failed  <i>resultCode</i> - Not used  <i>low-latency</i> - 0 = normal, 1 = low-latency (no audio)</p>
AudioEnable	Slot1.In1.AudioEnable	Boolean	<pre>Slot1.In1.AudioEnable = On !Done Slot1.In1.AudioEnable</pre>	<p>Enable the embedded input audio on an input (if present)  On : Off  Default; On</p>

Property Name	Syntax	Type	Example	Description
AudioLevel	Slot1.In1.AudioLevel	Integer	Slot1.In1.AudioLevel = 0 !Done Slot1.In1.AudioLevel	Get or set the embedded input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot1.In1.AudioMute	Boolean	Slot1.In1.AudioMute = Off !Done Slot1.In1.AudioMute	Mute the embedded input audio on an input (if present) On : Off Default; Off

### Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 2 phase -----L:.....:-----, centres at 15, 15 (15). !Done Slot2.PhaseRetrain()	Initiate a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	<pre>640x480p60;4:3; 640x480p72;4:3;  ....  1920x1080p60;16:9; 1920x1200p50cvt-rb;16:10; 1920x1200p60cvt-rb;16:10; 3840x2160p23.98;16:9; 3840x2160p24;16:9; 3840x2160p25;16:9; 3840x2160p29.97;16:9; 3840x2160p30;16:9; 4096x2160p23.98;256:135; 4096x2160p24;256:135; 4096x2160p25;256:135; !Done Slot2.Module_Resolutions()</pre>	List all of the supported resolutions for this slot.

USB.ListDirectory	Slot<n>.Storage.USB.ListDirectory(<string> path, <int> typeMask, <int> offset, <int> limit)	Array	<pre> // Return first 100 directories in the root path Slot1.Storage.USB. ListDirectory("", 1, 0, 100) - 1,"MyFolder",0,0,0,0,0   1,"MyFolder_2",0,0,0,0,0   ... !Done Slot1.Storage.USB.ListDirectory ()  // Return file 10 to 20 in the root path Slot1.Storage.USB. ListDirectory("", 14, 9, 10) 4,"An_Image_File.jpg",1000,1920,1080,0,0,0 8,"A_Video_File.mov",1000000,1920,1080,30,30 0,10,H264   ... !Done Slot1.Storage.USB.ListDirectory () </pre>	<p>Function to return a list of files and directories stored on the USB storage device.</p> <p><i>path</i> - Path to the directory to search - must be in ""</p> <p><i>typeMask</i> - Bit mask to filter the items to retrieve. Where:</p> <ul style="list-style-type: none"> <li>1 = Directory</li> <li>2 = Text File</li> <li>4 = Image File</li> <li>8 = Video File</li> </ul> <p><i>offset</i> - Start index for retrieving the Directory list. 0 = beginning</p> <p><i>limit</i> - Maximum amount of items to return.</p> <p>The returned &lt;array&gt; contains the details for each item on a separate line.</p> <p>Each item is comma separated using the following structure:  <i>type,name,size,width,height,framerate,duration,bitrate,codec</i></p> <p><i>type</i> - int to represent the type  <i>name</i> - the name of the file/directory  <i>size</i> - the size on disk of the item (0 for directories) in bytes  <i>width</i> - width in pixels of the image/video  <i>height</i> - height in pixels of the image/video</p>
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Command	Syntax	Type	Example	Description
				<i>framerate</i> – framerate of the video clip <i>duration</i> – duration in seconds of the video clip <i>bitrate</i> – bitrate of the video clip <i>codec</i> – the codec used by the video clip
Local.ListDirectory	Slot<n>.Storage.Local.ListDirectory(<string> path, <int> typeMask, <int> offset, <int> limit)	Array	See USB.ListDirectory above.	Function to return a list of files and directories stored on the local storage device. See USB.ListDirectory above for details on parameters.

Command	Syntax	Type	Example	Description
USB.Copy	Slot<n>.Storage.USB.Copy(<string> src, <string> dest)	void	Slots.Slot1.Storage.USB.Copy("/usb0/Test Clip.mp4", "/usr0/New clip.mp4") !Done Slots.Slot1.Storage.USB.Copy	<p>Copies a file or directory from <i>src</i> on the USB drive to <i>dest</i> on the internal storage.</p> <p>This command will be blocked if playback is in progress.</p> <p>The copy will return an error in the OPERATION_DONE event (see below) if the destination already exists.</p> <p><i>Asynchronous operation</i> This is an asynchronous operation. The command will return immediately as soon as the operation has started.</p> <p>Completion of the operation is signalled using the MEDIA_STORAGE, OPERATION_DONE event, which includes whether the operation was successful. See the description of the <a href="#">OPERATION_DONE</a> event below for more details.</p> <p>You must subscribe to the MEDIA_STORAGE event in order to receive this notification. Other internal storage file operations will return busy while this operation is in progress.</p>



Command	Syntax	Type	Example	Description
Local.Delete	Slot<n>.Storage.Local.Delete(<string> path)	void	Slots.Slot1.Storage.Local.Delete("/usr0/Test Clip.mp4") !Done Slots.Slot1.Storage.Local.Delete	<p>Deletes a file or directory at <i>path</i> on the internal storage. If a directory is specified, all entries under the directory, including any subdirectories, will be deleted.</p> <p>This command will be blocked if playback is in progress.</p> <p><i>This is an asynchronous operation.</i> See <a href="#">USB.Copy</a> for details on asynchronous operations.</p>
Local.Move	Slot<n>.Storage.Local.Move(<string> src, <string> dest)	void	Slots.Slot1.Storage.Local,Move("/usr0/Test Clip.mp4", "/usr0/Subfolder/New clip.mp4") !Done Slots.Slot1.Storage.Local.Move	<p>Moves a file or directory from <i>src</i> to <i>dest</i> on the internal storage. This command may also be used to rename a file or directory.</p> <p>The command is will fail if the destination already exists, and will be blocked if playback is in progress.</p>
Local.CreateDirectory	Slot<n>.Storage.Local.CreateDirectory(<string> path)	Void	Slots.Slot1.Storage.Local.CreateDirectory("/usr0/Subfolder") !Done Slots.Slot1.Storage.Local.CreateDirectory	<p>Creates a new directory at <i>path</i> on the internal storage</p> <p>This command will be blocked if playback is in progress.</p>

<p>InsertItem</p>	<pre>Slot&lt;n&gt;.In&lt;n&gt;.ActiveQueue.InsertItem( &lt;int&gt; index, &lt;int&gt; type, &lt;string&gt; friendlyName, &lt;string&gt; uri, &lt;int&gt; duration, &lt;string&gt; protocol, &lt;int&gt; retries, &lt;int&gt; low-latency )</pre>	<p>void</p>	<pre>// Add a new item at position 4 in the queue with retries enabled  Slot2.In1.ActiveQueue.InsertItem(5,8,"NULL","file:///usb0/test.mp4",7,Auto,0,0) !Done Slot2.In1.ActiveQueue.InsertItem(5,8,"NULL","file:///usb0/test.mp4",7,Auto,0,0)</pre>	<p>Add a new item to the chosen queue index. Items are inserted into the queue. If there are items after the insert index they will be moved down to make space for the new item.</p> <p><i>index</i> - Index at which to insert the item. 0 = beginning  <i>type</i> - type of file, as follows:              1 = Video Stream              2 = Text File              4 = Image File              8 = Video File</p> <p><i>friendlyName</i> - Friendly name of the queue item  <i>uri</i> - Path to the item. Either a file path or a stream URI  <i>duration</i> - Duration to play the item for. 0 = Infinite  <i>protocol</i> - (Optional) Specify the stream protocol. This should be set to "Auto", unless you are using Encoder-100, where you may set it to "RTSPMulticast" for multicast operation.  <i>retries</i> - (Optional) Set the retry behaviour. 0 = no retries, 1 = always retry  <i>low-latency</i> - (Optional) Set the low-latency behaviour. 0 = normal, 1 = low-latency (no audio)</p>
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Command	Syntax	Type	Example	Description
				<p>Note: The friendlyName and uri must be URI encoded and surrounded by quotation marks.</p> <p>Note: Optional values must be specified progressively, i.e. retries requires protocol; low-latency requires retries.</p>
RemoveItem	Slot<n>.In<n>.ActiveQueue.RemoveItem(<int> index)	void	// Remove Item3 from the play queue Slot1.In2.ActiveQueue.RemoveItem(3) !Done Slot1.In2.ActiveQueue.RemoveItem()	Function to remove an Item from the play queue. The index number corresponds to the number returned in the Items list. All items after the index are moved up in the queue.
MoveItem	Slot<n>.In<n>.ActiveQueue.MoveItem(<int> fromIndex, <int> toIndex)	void	// Move Item3 to the beginning of the active play queue Slot1.In2.ActiveQueue.MoveItem(3,1) !Done Slot1.In2.ActiveQueue.MoveItem()	Function to move an Item to a different location within the play queue. The index numbers correspond to the number returned in the Items list.

Replaceltem	<pre>Slot&lt;n&gt;.In&lt;n&gt;.ActiveQueue.Replaceltem( &lt;int&gt; index, &lt;int&gt; type, &lt;string&gt; friendlyName, &lt;string&gt; uri, &lt;int&gt; duration, &lt;string&gt; protocol, &lt;int&gt; retries, &lt;int&gt; low-latency )</pre>	void	<pre>// Replace item at position 5 in the queue Slot2.In1.ActiveQueue.Replaceltem(5,8,"My_Vid _New","file:///usb0/dir/My_Vid.mp4",2000,Auto ,0,0) !Done Slot2.In1.ActiveQueue.Replaceltem(5,8,"My_Vid _New","file:///usb0/dir/My_Vid.mp4",2000,Auto ,0,0)</pre>	<p>Replace the item at the chosen queue index with the new details provided.</p> <p><i>index</i> - Index of item to replace  <i>type</i> - type of file, as follows:              1 = Video Stream              2 = Text File              4 = Image File              8 = Video File</p> <p><i>friendlyName</i> - Friendly name of the queue item  <i>uri</i> - Path to the item. Either a file path or a stream URL  <i>duration</i> - Duration to play the item for. 0 = Infinite  <i>protocol</i> - (Optional) Specify the stream protocol. Currently only "Auto"  <i>retries</i> - (Optional) Set the retry behaviour. 0 = no retries, 1 = always retry  <i>low-latency</i> - (Optional) Set the low-latency behaviour. 0 = normal, 1 = low-latency (no audio)</p> <p>Note: The friendlyName and uri must be URI encoded and surrounded by quotation marks.</p> <p>Note: Optional values must be specified progressively, i.e. retries requires protocol; low-latency requires retries.</p>
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Command	Syntax	Type	Example	Description
ClearAll	Slot<n>.In<n>.ActiveQueue.ClearAll()	void	!Done Slot1.In2.ActiveQueue.ClearAll()	Clear the play queue. Stops all playback and empties the play queue items
Play	Slot<n>.In<n>.ActiveQueue.Play()	void	!Done Slot1.In2.ActiveQueue.Play()	Starts/continues playback of the play queue
Stop	Slot<n>.In<n>.ActiveQueue.Stop()	void	!Done Slot1.In2.ActiveQueue.Stop()	Stops playback of the play queue. The CurrentIndex will be set to the start of the play queue.
Pause	Slot<n>.In<n>.ActiveQueue.Pause()	void	!Done Slot1.In2.ActiveQueue.Pause()	Pause playback of the play queue
SkipForward	Slot<n>.In<n>.ActiveQueue.SkipForward()	void	!Done Slot1.In2.ActiveQueue.SkipForward()	Moves playback to the next item in the play queue. Will stop at the end of the play queue unless loop is on – then it will wrap round to the first item in the play queue.
SkipBackward	Slot<n>.In<n>.ActiveQueue.SkipBackward()	void	!Done Slot1.In2.ActiveQueue.SkipBackward()	Moves playback to the beginning of item or previous item in the play queue. Will stop at the beginning on the Play queue and will report !Failed if called in this position unless loop is on – then it will wrap around to the last item in the play queue. It will always skip to the previous track (if there is one) regardless of how far into the current track playback is.

## Events

Category	Event	Syntax	Example	Description
MEDIA_STORAGE	USB_HOTPLUG_ARRIVED	USB_HOTPLUG_ARRIVED,<slot>,<label>,<total size>,<freespace>	// Event example !Event MEDIA_STORAGE, USB_HOTPLUG_ARRIVED,Slot5,"Name",156165151, 54654654	When a USB device is connected to the card it will raise this event.
MEDIA_STORAGE	USB_HOTPLUG_REMOVED	USB_HOTPLUG_REMOVED,<slot>	// Event example !Event MEDIA_STORAGE, USB_HOTPLUG_REMOVED,Slot5	When a USB device is disconnected from the card it will raise this event
MEDIA_STORAGE	OPERATION_STARTED	OPERATION_STARTED,<slot>,<exitCode>	// Event example !Event MEDIA_STORAGE, OPERATION_STARTED,Slot5,0	Event raised when an asynchronous file operation is started. A value of 0 for the exit code indicates successful completion, and non-zero value indicates failure.  Unless otherwise stated, all commands are synchronous and will not raise this event on completion unless stated explicitly in the command description. See <a href="#">USB.Copy</a> above for an example of its use.

Category	Event	Syntax	Example	Description
MEDIA_STORAGE	OPERATION_DONE	OPERATION_DONE,<slot>,<exitCode>	// Event example !Event MEDIA_STORAGE, OPERATION_DONE,Slot5,0	Event raised when an asynchronous file operation is completed. A value of 0 for the exit code indicates successful completion, and non-zero value indicates failure.  Unless otherwise stated, all commands are synchronous and will not raise this event on completion unless stated explicitly in the command description. See <a href="#">USB.Copy</a> above for an example of its use.
MODULE	USB_POWER_ALERT	USB_POWER_ALERT,<slot>,<status>	!Event MEDIA_STORAGE, USB_POWER_ALERT,Slot5,OK	Raise event to indicate whether the USB device's power requirements can be met. Status = OK,OverCurrent
MODULE	STATUS	STATUS,<Slot>,"<ModuleStatus>"	!Event MODULE,STATUS,Slot3,"READY"	Raised when the streaming media and 4k playback module status changes. <ModuleStatus> can be READY, SHUTDOWN, BOOTING, UPDATING, BOOTFAILED, UPDATEFAILED, WAITFORVERSION, CARDFAILED
MODULE	UPDATE_TRANSFER_STARTED	UPDATE_TRANSFER_STARTED,<Slot>	!Event MODULE,UPDATE_TRANSFER_STARTED,Slot3	Raised when the streaming media and 4k playback module update transfer has started.
MODULE	UPDATE_TRANSFER_PROGRESS	UPDATE_TRANSFER_PROGRESS,<Slot>,<percent_complete>,<transferred_bytes>	!Event MODULE,UPDATE_TRANSFER_PROGRESS,Slot3,40,909345	Raised during the streaming media and 4k playback module update transfer to provide update progress. <percent_complete> is an integer value out of 100.

Category	Event	Syntax	Example	Description
MODULE	UPDATE_TRANSFER_FINISHED	UPDATE_TRANSFER_FINISHED,<Slot>,<UpdateTransferResult>	!Event MODULE,UPDATE_TRANSFER_FINISHED,Slot3,UpdateComplete	Raised when the streaming media and 4k playback module update transfer has completed. <UpdateTransferResult> can be NotSet, UpdateComplete, UpdateFailedOnModule, FileNotFound, BPCOMMSERROR
MODULE	NETWORK_LINK_SPEED_CHANGED	NETWORK_LINK_SPEED_CHANGED,<Slot>,<LinkSpeed>	!Event MODULE,NETWORK_LINK_SPEED_CHANGED,Slot3,100	Raised when the streaming media and 4k playback module network link speed changes. <LinkSpeed> = 0, 100, 1000
MODULE	NETWORK_SETTINGS_CHANGED	NETWORK_SETTINGS_CHANGED,<Slot>	!Event MODULE,NETWORK_SETTINGS_CHANGED,Slot3	Raised when the streaming media and 4k playback module network settings changes.
MODULE	CORE_TEMPERATURE_ALERT	CORE_TEMPERATURE_ALERT,<Slot>,<status>,<coretemperature>	!Event MODULE,CORE_TEMPERATURE_ALERT,Slot3,RunningHot,73	Raised when the streaming media and 4k playback module over core temperature status changes. <status> reports one of the following values: OK – temperature is within safe operating value RunningHot – temperature is higher than normal but should not affect performance OverTemperature – temperature is too high and performance is affected
MODULE_CORE_TEMPERATURE	CHANGED	CHANGED,<Slot>,<CoreTemperature>	!Event MODULE_CORE_TEMPERATURE,CHANGED,Slot3,47	Raised when the streaming media and 4k playback module Core Temperature changes.



Category	Event	Syntax	Example	Description
MEDIA_PLAYER	ITEM_STATUS_CHANGED	ITEM_STATUS_CHANGED,<input>,<itemNumber>,<status>,<resultCode>	!Event MEDIA_PLAYER, ITEM_STATUS_CHANGED,Slot3.In1,3,Failed,0	Raised when the status of an item in the active play queue changes. <input> = Slot<n>.In<n> <itemNumber> = Number of item in queue. 1 - 20 <status> = OK or Failed <resultCode> = currently unused
MEDIA_PLAYER	STATUS_UPDATE	STATUS_UPDATE,<Input>,<state>,<index>	!Event STATUS_UPDATE,Slot3.In1,Idle,3	Raised on any change of state on the media player <channel> = Slot<n>.In<n> <state> = Idle, Configured, Connecting, Playing, Paused, Disconnecting,Retrying <index> = is the currently playing index in the queue (1-20)
SYSTEM	POWERMODE_CHANGED	POWERMODE_CHANGED,<status>	!Event POWERMODE_CHANGED,Standby	Event indicates the status of AVIP module updates across the system. The events represent the combined status of all AVIP modules present in the system  Value returned is the mode the modules are entering, values are; Standby, Resuming, Resumed
SYSTEM	UPDATE_STATUS	UPDATE_STATUS,<status>	!Event UPDATE_STATUS,Updating	Status of modules which update after the system has rebooted. Only applies to the Streaming media and 4k playback module at present. Status values are Booting, Updating, Ready, UpdateFailed.

Category	Event	Syntax	Example	Description
INPUT	STATUS_GROUP	STATUS_GROUP,<input>, <property>, <value>	!Event STATUS_GROUP,Slot1.In1,Status,OK	<p>Raised when an input property is changed.</p> <p>Properties;</p> <p>Status; OK   Invalid</p> <p>Measured_Resolution; &lt;a valid resolution&gt; or empty</p> <p>Set_Resolution; &lt;a valid resolution&gt; or empty</p> <p>CanFramelockTo; Yes   No</p> <p>HDCP_Required; Required   Off</p> <p>HDMI; Found   Not_found</p> <p>Audio; Found   Off</p>

## DVI Output Module

This section covers the following modules:

AK27 DVI-U scaled 2 output module

AK37 DVI-U monitoring 2 output module

AK63 DVI-I scaled 2 output module

AK64 DVI-I monitoring 2 output module

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot14.Cardtype = DVI_U 2-out Slot14.Carddata = <...> Slot14.Out1 = <...> Slot14.Out2 = <...> Slot14.PhaseRetrain() Slot14.Module_Resolutions() Slot14.Resolutions = <...> !Done Slot14	List the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot14.Cardtype = DVI_U 2-out !Done Slot14.Cardtype	Read-only. Get the type of the card in this slot
Carddata	Slot<n>.Carddata	void	Slot14.Carddata.BaseNo = 2218061000060 Slot14.Carddata.SubNo = 2218023019147 Slot14.Carddata.ProdNo = 2218064000012 Slot14..Carddata.PTR = RRRRR----- LLLLLLLLLLL---RRRRR, centres at 18, 0 (31). !Done Slot14.Carddata	Returns card specific data BaseNo: base card serial number SubNo: sub card serial number ProdNo: assembly number PTR: phase training result
Out<n>	Slot<n>.Out<n>	List	Slot14.Out1.FullName = Out1 Slot14.Out1.Status = UNKNOWN	List the properties for an Output on the given Slot.

Property Name	Syntax	Type	Example	Description
			Slot14.Out1.Alias = s14o1 Slot14.Out1.AspectChoice = 4:3 Slot14.Out1.DisplayType = Monitor Slot14.Out1.Resolution = 1920x1080p60 Slot14.Out1.DefaultLoRes = 720x576i50 Slot14.Out1.Width = 1920 Slot14.Out1.Height = 1080 Slot14.Out1.Field_Rate = 60.00 Slot14.Out1.Frame_ip = p Slot14.Out1.AnalogType = RGBHV Slot14.Out1.OutputMode = Auto Slot14.Out1.ColourScale = Auto Slot14.Out1.GenlockSource = NULL Slot14.Out1.Genlock = Off Slot14.Out1.RawMatrixSwitch = Off Slot14.Out1.Audio = Off Slot14.Out1.AudOutA = NULL Slot14.Out1.AudOutB = NULL Slot14.Out1.AudOutC = NULL Slot14.Out1.AudOutD = NULL Slot14.Out1.ForceLinkRefresh() Slot14.Out1.HDCP_Active = Active Slot14.Out1.HDCP_Downstream = HoldOn Slot14.Out1.HDMI = Found Slot14.Out1.Layout = Layout1 Slot14.Out1.WidthInLayout = 1920 Slot14.Out1.HeightInLayout = 1080 Slot14.Out1.LayoutXCentre = 0 Slot14.Out1.LayoutYCentre = 0 Slot14.Out1.RotateOutDeg = 0 Slot14.Out1.HFlip = Off	Where Out<n> is the output on the card.  Note: Audio, AudOutA-D may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot14.Out1.VFlip = Off Slot14.Out1.GammaRed = 1 Slot14.Out1.GammaGreen = 1 Slot14.Out1.GammaBlue = 1 Slot14.Out1.SCurve = 1 Slot14.Out1.EdgeBlend_Mode = Off Slot14.Out1.OuterGrid = Off Slot14.Out1.InnerGrid = Off Slot14.Out1.LeftOverlap = 0 Slot14.Out1.RightOverlap = 0 Slot14.Out1.TopOverlap = 0 Slot14.Out1.BottomOverlap = 0 Slot14.Out1.LeftEBPos = -511 Slot14.Out1.RightEBPos = 511 Slot14.Out1.TopEBPos = -383 Slot14.Out1.BottomEBPos = 383 Slot14.Out1.Centre_BB = 0 Slot14.Out1.Left_BB = 0 Slot14.Out1.Right_BB = 0 Slot14.Out1.Top_BB = 0 Slot14.Out1.Bottom_BB = 0 Slot14.Out1.ProjectorWidthDeg = 30 Slot14.Out1.ProjectorHeightDeg = 30 Slot14.Out1.KeystoneXDeg = 0 Slot14.Out1.KeystoneYDeg = 0 Slot14.Out1.WarpTable_Filename = Slot14.Out1.WarpTable = 0 Slot14.Out1.EDID_Filename = Slot14.Out1.AudioBars = 4 Slot14.Out1.Equipment = "Default 46 inch 16:9 Display"	

Property Name	Syntax	Type	Example	Description
			Slot14.Out1.PhysicalCenterX = 0 Slot14.Out1.PhysicalCenterY = 0 Slot14.Out1.PhysicalWidth = 1018300 Slot14.Out1.PhysicalHeight = 572800 Slot14.Out1.PhysicalPixelWidth = 1920 Slot14.Out1.PhysicalPixelHeight = 1080 Slot14.Out1.PhysicalBezelTop = 10000 Slot14.Out1.PhysicalBezelBottom = 10000 Slot14.Out1.PhysicalBezelLeft = 10000 Slot14.Out1.PhysicalBezelRight = 10000 Slot14.Out1.InsList = Slot3.In1,Slot3.In2 Slot14.Out1.CutToBlack = Off Slot14.Out1.FramelockSource = NULL Slot14.Out1.FramelockEnable = Off Slot14.Out1.FramelockStatus = Unlocked !Done Slot14.Out1	
FullName	Slot<n>.Out<n>.FullName	String	Slot14.Out1.FullName = Out1 !Done Slot14.Out1.FullName	Read-only. Get the full name of the Window.
Status	Slot<n>.Out<n>.Status	StatusEnum	Slot14.Out1.Status = UNKNOWN !Done Slot14.Out1.Status	Read-only. Get the status of the output.
Alias	Slot<n>.Out<n>.Alias	String	Slot14.Out1.Alias = s14o1 !Done Slot14.Out1.Alias	Get or set the Alias name for this output. <b>Warning it is possible to set this value to that used by another output, in which case the other value will be set to NULL.</b>
DisplayType	Slot<n>.Out<n>.DisplayType	DisplayType	Slot14.Out1.DisplayType = Monitor !Done Slot14.Out1.DisplayType	Get or set the type of display connected to this output.

Property Name	Syntax	Type	Example	Description
Resolution	Slot<n>.Out<n>.Resolution	Resolution	Slot14.Out1.Resolution = 1920x1080p60 !Done Slot14.Out1.Resolution	Get or set the resolution to use on this output. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.
DefaultLoRes	Slot<n>.Out<n>.DefaultLoRes	Resolution	Slot14.Out1.DefaultLoRes = 720x576i50 !Done Slot14.Out1.DefaultLoRes	Get or set the resolution to use on this output when HDCP is requested by the source but the display failed HDCP negotiation. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.
Width	Slot<n>.Out<n>.Width	Integer	Slot14.Out1.Width = 1920 !Done Slot14.Out1.Width	Read-only. Get the width of this output based on the select resolution.
Height	Slot<n>.Out<n>.Height	Integer	Slot14.Out1.Height = 1080 !Done Slot14.Out1.Height	Read-only. Get the height of this output based on the select resolution.
Field_Rate	Slot<n>.Out<n>.Field_Rate	Number	Slot14.Out1.Field_Rate = 60.00 !Done Slot14.Out1.Field_Rate	Read-only. Get the field rate for this output based on the select resolution.
Frame_ip	Slot<n>.Out<n>.Frame_ip	FrameType	Slot14.Out1.Frame_ip = p !Done Slot14.Out1.Frame_ip	Read-only. Get the frame type for this output based on the select resolution.
AnalogType	Slot<n>.Out<n>.AnalogType	AnalogType	Slot14.Out1.AnalogType = RGBHV !Done Slot14.Out1.AnalogType	Get or set the type of analog signal to use on this output.

Property Name	Syntax	Type	Example	Description
OutputMode	Slot<n>.Out<n>.OutputMode	String	Slot14.Out1.OutputMode = Auto !Done Slot14.Out1.OutputMode	Auto = default, unit selects output appropriately based on incoming EDID from the display (HDMI/DVI/Analog) HDMI = EDID from sink is ignored and output is forced to HDMI DVI = EDID from sink is ignored and output is forced to DVI Analog = EDID from sink is ignored and output is forced to Analog
ColourScale	Slot<n>.Out<n>.ColourScale	ColourScale	Slot14.Out1.ColourScale = Auto !Done Slot14.Out1.ColourScale	Get or set the color scale to use on this output.
GenlockSource	Slot<n>.Out<n>.GenlockSource	Input	Slot14.Out1.GenlockSource = NULL !Done Slot14.Out1.GenlockSource	Get or set the Input to be used as the genlock source for the Output. If no Genlock is to be use then the value is to be NULL.
Genlock	Slot<n>.Out<n>.Genlock	GenlockStatus	Slot14.Out1.Genlock = Off !Done Slot14.Out1.Genlock	Read-only. Get the status of genlock for this output.
HDCP_Active	Slot<n>.Out<n>.HDCP_Active	ActiveOff	Slot14.Out1.HDCP_Active = Active !Done Slot14.Out1.HDCP_Active	Read only. Get the HDCP status of this output.
HDCP_Downstream	Slot<n>.Out<n>.HDCP_Downstream	HDCPDownstream	Slot14.Out1.HDCP_Downstream = HoldOn !Done Slot14.Out1.HDCP_Downstream	Get or set the downstream HDCP mode.
HDMI	Slot<n>.Out<n>.HDMI	FoundNot	Slot14.Out1.HDMI = Found !Done Slot14.Out1.HDMI	Read-only. Get the detected HDMI status.
Layout	Slot<n>.Out<n>.Layout	Layout	Slot14.Out1.Layout = Layout1 !Done Slot14.Out1.Layout	Get or set the layout assigned to this output.
WidthInLayout	Slot<n>.Out<n>.WidthInLayout	Integer	Slot14.Out1.WidthInLayout = 1920 !Done Slot14.Out1.WidthInLayout	Get or set the width of this output within the layout
HeightInLayout	Slot<n>.Out<n>.HeightInLayout	Integer	Slot14.Out1.HeightInLayout = 1080 !Done Slot14.Out1.HeightInLayout	Get or set the height of this output within the layout



Property Name	Syntax	Type	Example	Description
LayoutXCentre	Slot<n>.Out<n>.LayoutXCentre	Integer	Slot14.Out1.LayoutXCentre = 0 !Done Slot14.Out1.LayoutXCentre	Get or set the centre X coordinate of this output
LayoutYCentre	Slot<n>.Out<n>.LayoutYCentre	Integer	Slot14.Out1.LayoutYCentre = 0 !Done Slot14.Out1.LayoutYCentre	Get or set the centre Y coordinate of this output
RotateOutDeg	Slot<n>.Out<n>.RotateOutDeg	Degree	Slot14.Out1.RotateOutDeg = 0 !Done Slot14.Out1.RotateOutDeg	Get or set the degree of rotation of this output. From 0 to 359
GammaRed	Slot<n>.Out<n>.GammaRed	Number	Slot14.Out1.GammaRed = 1 !Done Slot14.Out1.GammaRed	Get or set the red gamma value for this output Range: 0.30 to 2.00
GammaGreen	Slot<n>.Out<n>.GammaGreen	Number	Slot14.Out1.GammaGreen = 1 !Done Slot14.Out1.GammaGreen	Get or set the green gamma value for this output Range: 0.30 to 2.00
GammaBlue	Slot<n>.Out<n>.GammaBlue	Number	Slot14.Out1.GammaBlue = 1 !Done Slot14.Out1.GammaBlue	Get or set the blue gamma value for this output Range: 0.30 to 2.00
SCurve	Slot<n>.Out<n>.SCurve	Number	Slot14.Out1.SCurve = 1 !Done Slot14.Out1.SCurve	Get or set the SCurve value for this output. (brightness curve) Range: 0.30 to 2.00
EdgeBlend_Mode	Slot<n>.Out<n>.EdgeBlend_Mode	Boolean	Slot14.Out1.EdgeBlend_Mode = Off !Done Slot14.Out1.EdgeBlend_Mode	Get or set the addition of a border to this output to aid with edge blending.
OuterGrid	Slot<n>.Out<n>.OuterGrid	Boolean	Slot14.Out1.OuterGrid = Off !Done Slot14.Out1.OuterGrid	Get or set if an alignment grid is to be shown on this output. Note that the DisplayType must be set to Projector.
LeftOverlap	Slot<n>.Out<n>.LeftOverlap	Integer	Slot14.Out2.LeftOverlap = 0 !Done Slot14.Out2.LeftOverlap	Used in Edge Blending. The values are calculated by CORIOgrapher and depend on the physical projector position.
RightOverlap	Slot<n>.Out<n>.RightOverlap	Integer	Slot14.Out2.RightOverlap = 0 !Done Slot14.Out2.RightOverlap	
TopOverlap	Slot<n>.Out<n>.TopOverlap	Integer	Slot14.Out2.TopOverlap = 0 !Done Slot14.Out2.TopOverlap	

Property Name	Syntax	Type	Example	Description
BottomOverlap	Slot<n>.Out<n>.BottomOverlap	Integer	Slot14.Out1.BottomOverlap = 80 !Done Slot14.Out1.BottomOverlap	
LeftEBPos	Slot<n>.Out<n>.LeftEBPos	Integer	Slot14.Out1.LeftEBPos = -511 !Done Slot14.Out1.LeftEBPos	
RightEBPos	Slot<n>.Out<n>.RightEBPos	Integer	Slot14.Out1.RightEBPos = 511 !Done Slot14.Out1.RightEBPos	
TopEBPos	Slot<n>.Out<n>.TopEBPos	Integer	Slot14.Out1.TopEBPos = -383 !Done Slot14.Out1.TopEBPos	
BottomEBPos	Slot<n>.Out<n>.BottomEBPos	Integer	Slot14.Out1.BottomEBPos = 383 !Done Slot14.Out1.BottomEBPos	
Centre_BB	Slot<n>.Out<n>.Centre_BB	Integer	Slot14.Out1.Centre_BB = 0 !Done Slot14.Out1.Centre_BB	
Left_BB	Slot<n>.Out<n>.Left_BB	Integer	Slot14.Out1.Left_BB = 0 !Done Slot14.Out1.Left_BB	
Right_BB	Slot<n>.Out<n>.Right_BB	Integer	Slot14.Out1.Right_BB = 0 !Done Slot14.Out1.Right_BB	
Top_BB	Slot<n>.Out<n>.Top_BB	Integer	Slot14.Out1.Top_BB = 0 !Done Slot14.Out1.Top_BB	
Bottom_BB	Slot<n>.Out<n>.Bottom_BB	Integer	Slot14.Out1.Bottom_BB = 0 !Done Slot14.Out1.Bottom_BB	
EDID_Filename	Slot<n>.Out<n>.EDID_Filename	String	Slot14.Out1.EDID_Filename = !Done Slot14.Out1.EDID_Filename	Get or set the EDID file in any currently being used for this output.
Equipment	Slot<n>.Out<n>.Equipment	String	Slot14.Out1.Equipment = !Done Slot14.Out1.Equipment	Get or set the equipment connected to this input.
PhysicalCenterX	Slot<n>.Out<n>.PhysicalCenterX	Integer	Slot14.Out1.PhysicalCenterX = 0 !Done Slot14.Out1.PhysicalCenterX	Get or set the center of the display in microns.
PhysicalCenterY	Slot<n>.Out<n>.PhysicalCenterY	Integer	Slot14.Out1.PhysicalCenterY = 0 !Done Slot14.Out1.PhysicalCenterY	Get or set the center of the display as a pixel location (in vertical axis)
PhysicalWidth	Slot<n>.Out<n>.PhysicalWidth	Integer	Slot14.Out1.PhysicalWidth = 0 !Done Slot14.Out1.PhysicalWidth	Get or set the width of the display in microns.

Property Name	Syntax	Type	Example	Description
PhysicalHeight	Slot<n>.Out<n>.PhysicalHeight	Integer	Slot14.Out1.PhysicalHeight = 0 !Done Slot14.Out1.PhysicalHeight	Get or set the height of the display in microns.
PhysicalPixelWidth	Slot<n>.Out<n>.PhysicalPixelWidth	Integer	Slot14.Out1.PhysicalPixelWidth = 0 !Done Slot14.Out1.PhysicalPixelWidth	Get or set the width of a pixel on the display in microns.
PhysicalPixelHeight	Slot<n>.Out<n>.PhysicalPixelHeight	Integer	Slot14.Out1.PhysicalPixelHeight = 0 !Done Slot14.Out1.PhysicalPixelHeight	Defines the height of a pixel on the display in microns.
PhysicalBezelTop	Slot<n>.Out<n>.PhysicalBezelTop	Integer	Slot14.Out1.PhysicalBezelTop = 0 !Done Slot14.Out1.PhysicalBezelTop	Defines the size of the top bezel in microns.
PhysicalBezelBottom	Slot<n>.Out<n>.PhysicalBezelBottom	Integer	Slot14.Out1.PhysicalBezelBottom = 0 !Done Slot14.Out1.PhysicalBezelBottom	Defines the size of the bottom bezel in microns
PhysicalBezelLeft	Slot<n>.Out<n>.PhysicalBezelLeft	Integer	Slot14.Out1.PhysicalBezelLeft = 0 !Done Slot14.Out1.PhysicalBezelLeft	Defines the size of the left bezel in microns
PhysicalBezelRight	Slot<n>.Out<n>.PhysicalBezelRight	Integer	Slot14.Out1.PhysicalBezelRight = 0 !Done Slot14.Out1.PhysicalBezelRight	Defines the size of the right bezel in microns
CutToBlack	Slot<n>.Out<n>.CutToBlack	Boolean	Slot14.Out1.CutToBlack = Off !Done Slot14.Out1.CutToBlack	Get or set the output to black. When setting multiple outputs to black it is recommended to surround them with startbatch() endbatch() to synchronise output blanking
FramelockSource	Slot<n>.Out<n>.FramelockSource	Input	Slot14.Out2.FramelockSource = NULL !Done Slot14.Out2.FramelockSource	Get or set the source to use for Frame-lock.
FramelockEnable	Slot<n>.Out<n>.FramelockEnable	Boolean	Slot14.Out2.FramelockEnable = Off !Done Slot14.Out2.FramelockEnable	Get or set to use Frame-lock.
FramelockStatus	Slot<n>.Out<n>.FramelockStatus	Framelock Status	Slot14.Out2.FramelockStatus = Unlocked !Done Slot14.Out2.FramelockStatus	Read only. Get if this output is locked to the Frame-lock source.

Property Name	Syntax	Type	Example	Description
Resolutions	Slot<n>	List	Slot14.Resolutions.Resolution1 = <...> Slot14.Resolutions.Resolution2 = <...> ... Slot14.Resolutions.Resolution1000 = <...> Slot14.Resolutions.Resolution1001 = <...> Slot14.Resolutions.Resolution1002 = <...> Slot14.Resolutions.Resolution1003 = <...> Slot14.Resolutions.Resolution1004 = <...> Slot14.Resolutions.Resolution1005 = <...> Slot14.Resolutions.Resolution1006 = <...> Slot14.Resolutions.Resolution1007 = <...> Slot14.Resolutions.Resolution1008 = <...> Slot14.Resolutions.Resolution1009 = <...> !Done Slot14.Resolutions	List the properties for a Resolution where <n> is the number of the Resolution. Note that Resolution1000 to Resolution1009 are Custom Resolutions.
Resolution<n>	Slot<n>.Resolutions.Resolution<n>	List	Slot14.Resolutions.Resolution1.Name = 640x480p60 Slot14.Resolutions.Resolution1.Aspect = 4:3 Slot14.Resolutions.Resolution1.CanFramelock = No !Done Slot14.Resolutions.Resolution1	List the properties of the selected resolution.
Name	Slot<n>.Resolutions.Resolution<n>.Name	String	Slot14.Resolutions.Resolution1.Name = 640x480p60 !Done Slot14.Resolutions.Resolution1.Name	Read only. Get the name of this resolution.
Aspect	Slot<n>.Resolutions.Resolution<n>.Aspect	AspectRatio	Slot14.Resolutions.Resolution1.Aspect = 4:3 !Done Slot14.Resolutions.Resolution1.Aspect	Read only. Get the aspect ratio of this resolution. Used assist to in the signal conversion when an input and the output have different aspect ratios.

Property Name	Syntax	Type	Example	Description
CanFramelock	Slot<n>.Resolutions.Resolution<n>.CanFramelock	Boolean	Slot14.Resolutions.Resolution1.CanFramelock = No !Done Slot14.Resolutions.Resolution1.CanFramelock	Read only. Get if the Resolution is compatible with Framelock.
AudioEnable	Slot10.Out1.AudioEnable	Boolean	Slot10.Out1.AudioEnable = On !Done Slot10.Out1.AudioEnable	Enable the embedded audio on a specific output, independent of canvas On : Off Default; On
AudioMode	Slot10.Out1.AudioMode	String	Slot10.Out1.AudioMode = FromSource !Done Slot10.Out1.AudioMode	Read only, set via canvas menu
AudioFollowWindow	Slot10.Out1.AudioFollowWindow	Integer	Slot10.Out1.AudioFollowWindow = 1 !Done Slot10.Out1.AudioFollowWindow	Read only, set via canvas menu
AudioSource	Slot10.Out1.AudioSource	String	Slot10.Out1.AudioSource = NULL !Done Slot10.Out1.AudioSource	Read only, set via canvas menu
.AudioVolume	Slot10.Out1.AudioVolume	Integer	Slot10.Out1.AudioVolume = 100 !Done Slot10.Out1.AudioVolume	Read only, set via canvas menu
AudioMute	Slot10.Out1.AudioMute	Boolean	Slot10.Out1.AudioMute = Off !Done Slot10.Out1.AudioMute	Mute the embedded audio on a specific output, independent of canvas On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 14 phase :-----:;;, centres at 27, 27 (27). !Done Slot14.PhaseRetrain()	Initiate a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	640x480p60;4:3; 640x480p72;4:3; ... Empty1000;4:3; Empty1001;4:3; Empty1002;4:3; Empty1003;4:3; Empty1004;4:3; Empty1005;4:3; Empty1006;4:3; Empty1007;4:3; Empty1008;4:3; Empty1009;4:3; !Done Slot14.Module_Resolutions()	List all of the supported resolutions for this slot. Custom resolutions will appear at the end of the list. The list is semicolon separated.
ForceLinkRefresh	Slot<n>.Out<n>.ForceLinkRefresh()	Void	Slot14.Out1.ForceLinkRefresh() !Done Slot14.Out1.ForceLinkRefresh()	Reset the connection to the display.

## Events

Category	Event	Syntax	Example	Description
HDMI	SINK_ATTACHED	SINK_ATTACHED,<output>	!Event HDMI,SINK_ATTACHED,s3.o1	Raised when an HDMI connection is attached to an output
HDMI	SINK_UNPLUGGED	SINK_UNPLUGGED,<output>	!Event HDMI,SINK_UNPLUGGED,s3.o1	Raised when an HDMI connection is unplugged from an output
OUTPUT	AUDIO_FOLLOW_WINDOW_CHANGED	AUDIO_FOLLOW_WINDOW_CHANGED,<output>,<Window Source>	!Event OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED,Slot4.Out1,Window5	CORIOmaster micro only Raised when a window being used to source the audio playing on the identified output is changed to another window.

Category	Event	Syntax	Example	Description
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,AudioEnable,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioEnable,Off	Raised when the AudioEnable on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>, AudioMute,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioMute,On	Raised when the AudioMute on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>, CutToBlack,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,CutToBlack,On	Raised when the CutToBlack on a specific output is changed. On   Off
OUTPUT	STATUS_GROUP	STATUS_GROUP,<output>,<property>,<value>	! Event OUTPUT, STATUS_GROUP,Slot16.Out1,HDCP_Active,Active	Raised when an output property is changed. Properties; HDCP_Active; Active   Off HDMI; Found   Not_Found FramelockStatus; Locked   Unlocked Genlock; Off   Locked

## SDI Output Module

This section covers the following modules:

AK42 3G-SDI scaled 2 output module

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot13.Cardtype = SDI_3G 2-out Slot13.Carddata = <...> Slot13.Out1 = <...> Slot13.Out2 = <...> Slot13.PhaseRetrain() Slot13.Module_Resolutions() Slot13.Resolutions = <...> !Done Slot13	List the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot13.Cardtype = SDI_3G 2-out !Done Slot13.Cardtype	Read-only. Get the type of the card in this slot
Out<n>	Slot<n>.Out<n>	List	Slot13.Out1.FullName = Out1 Slot13.Out1.Status = UNKNOWN Slot13.Out1.Alias = s13o1 Slot13.Out1.AspectChoice = 4:3 Slot13.Out1.DisplayType = Monitor Slot13.Out1.Resolution = 1280x720p60 Slot13.Out1.DefaultLoRes = 720x576i50 Slot13.Out1.Width = 1280 Slot13.Out1.Height = 720 Slot13.Out1.Field_Rate = 60.00 Slot13.Out1.Frame_ip = p Slot13.Out1.AnalogType = RGBHV Slot13.Out1.ColourScale = Auto	List the properties for an Output on the given Slot. Where Out<n> is the output on the card.  Note: Audio, AudOutA-D may not be present in all system configurations.



Property Name	Syntax	Type	Example	Description
			Slot13.Out1.GenlockSource = NULL Slot13.Out1.Genlock = Off Slot13.Out1.RawMatrixSwitch = Off Slot13.Out1.Audio = Off Slot13.Out1.AudOutA = NULL Slot13.Out1.AudOutB = NULL Slot13.Out1.AudOutC = NULL Slot13.Out1.AudOutD = NULL Slot13.Out1.HDMI = Not_Found Slot13.Out1.Layout = Layout1 Slot13.Out1.WidthInLayout = 1280 Slot13.Out1.HeightInLayout = 720 Slot13.Out1.LayoutXCentre = 55 Slot13.Out1.LayoutYCentre = 0 Slot13.Out1.RotateOutDeg = 0 Slot13.Out1.HFlip = Off Slot13.Out1.VFlip = Off Slot13.Out1.GammaRed = 1 Slot13.Out1.GammaGreen = 1 Slot13.Out1.GammaBlue = 1 Slot13.Out1.SCurve = 1 Slot13.Out1.EdgeBlend_Mode = Off Slot13.Out1.OuterGrid = Off Slot13.Out1.InnerGrid = Off Slot13.Out1.LeftOverlap = 0 Slot13.Out1.RightOverlap = 0 Slot13.Out1.TopOverlap = 0 Slot13.Out1.BottomOverlap = 0 Slot13.Out1.LeftEBPos = -511 Slot13.Out1.RightEBPos = 511 Slot13.Out1.TopEBPos = -383	

Property Name	Syntax	Type	Example	Description
			Slot13.Out1.BottomEBPos = 383 Slot13.Out1.Centre_BB = 0 Slot13.Out1.Left_BB = 0 Slot13.Out1.Right_BB = 0 Slot13.Out1.Top_BB = 0 Slot13.Out1.Bottom_BB = 0 Slot13.Out1.ProjectorWidthDeg = 30 Slot13.Out1.ProjectorHeightDeg = 30 Slot13.Out1.KeystoneXDeg = 0 Slot13.Out1.KeystoneYDeg = 0 Slot13.Out1.WarpTable_Filename = Slot13.Out1.WarpTable = 0 Slot13.Out1.View = NULL Slot13.Out1.ViewPosCode = 0 Slot13.Out1.AudioBars = 0 Slot13.Out1.Equipment = "Default 46 inch 16:9 Display" Slot13.Out1.PhysicalCenterX = 43800 Slot13.Out1.PhysicalCenterY = 0 Slot13.Out1.PhysicalWidth = 1018300 Slot13.Out1.PhysicalHeight = 572800 Slot13.Out1.PhysicalPixelWidth = 1280 Slot13.Out1.PhysicalPixelHeight = 720 Slot13.Out1.PhysicalBezelTop = 10000 Slot13.Out1.PhysicalBezelBottom = 10000 Slot13.Out1.PhysicalBezelLeft = 10000 Slot13.Out1.PhysicalBezelRight = 10000 Slot13.Out1.InsList = Slot3.In1,Slot3.In2 Slot13.Out1.CutToBlack = Off Slot13.Out1.FramelockSource = NULL Slot13.Out1.FramelockEnable = Off	

Property Name	Syntax	Type	Example	Description
			Slot13.Out1.FramelockStatus = Unlocked !Done Slot13.Out1	
FullName	Slot<n>.Out<n>.FullName	String	Slot13.Out1.FullName = Out1 !Done Slot13.Out1.FullName	Read-only. Get the full name of the Window.
Status	Slot<n>.Out<n>.Status	StatusEnum	Slot13.Out1.Status = UNKNOWN !Done Slot13.Out1.Status	Read-only. Get the status of the output.
Alias	Slot<n>.Out<n>.Alias	String	Slot13.Out1.Alias = s13o1 !Done Slot13.Out1.Alias	Get or set the Alias name for this output. <b>Warning it is possible to set this value to that used by another output, in which case the other value will be set to NULL.</b>
DisplayType	Slot<n>.Out<n>.DisplayType	DisplayType	Slot13.Out1.DisplayType = Monitor !Done Slot13.Out1.DisplayType	Get or set the type of display connected to this output.
Resolution	Slot<n>.Out<n>.Resolution	Resolution	Slot13.Out1.Resolution = 1280x720p60 !Done Slot13.Out1.Resolution	Get or set the resolution to use on this output. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.
DefaultLoRes	Slot<n>.Out<n>.DefaultLoRes	Resolution	Slot13.Out1.DefaultLoRes = 720x576i50 !Done Slot13.Out1.DefaultLoRes	Get or set the resolution to use on this output when HDCP is requested by the source but the display failed HDCP negotiation. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.

Property Name	Syntax	Type	Example	Description
Width	Slot<n>.Out<n>.Width	Integer	Slot13.Out1.Width = 1280 !Done Slot13.Out1.Width	Read-only. Get the width of this output based on the select resolution.
Height	Slot<n>.Out<n>.Height	Integer	Slot13.Out1.Height = 720 !Done Slot13.Out1.Height	Read-only. Get the height of this output based on the select resolution.
Field_Rate	Slot<n>.Out<n>.Field_Rate	Number	Slot13.Out1.Field_Rate = 60.00 !Done Slot13.Out1.Field_Rate	Read-only. Get the field rate for this output based on the select resolution.
Frame_ip	Slot<n>.Out<n>.Frame_ip	FrameType	Slot13.Out1.Frame_ip = p !Done Slot13.Out1.Frame_ip	Read-only. Get the frame type for this output based on the select resolution.
AnalogType	Slot<n>.Out<n>.AnalogType	AnalogType	Slot13.Out1.AnalogType = RGBHV !Done Slot13.Out1.AnalogType	Get or set the type of analog signal to use on this output.
ColourScale	Slot<n>.Out<n>.ColourScale	ColourScale	Slot13.Out1.ColourScale = Auto !Done Slot13.Out1.ColourScale	Get or set the color scale to use on this output.
GenlockSource	Slot<n>.Out<n>.GenlockSource	Input	Slot13.Out1.GenlockSource = NULL !Done Slot13.Out1.GenlockSource	Get or set the Input to be used as the genlock source for the Output. If no Genlock is to be use then the value is to be NULL.
Genlock	Slot<n>.Out<n>.Genlock	GenlockStatus	Slot13.Out1.Genlock = Off !Done Slot13.Out1.Genlock	Read-only. Get the status of genlock for this output.
HDMI	Slot<n>.Out<n>.HDMI	FoundNot	Slot13.Out1.HDMI = Not_Found !Done Slot13.Out1.HDMI	Read-only. Get the detected HDMI status.
Layout	Slot<n>.Out<n>.Layout	Layout	Slot13.Out1.Layout = Layout1 !Done Slot13.Out1.Layout	Get or set the layout assigned to this output.
WidthInLayout	Slot<n>.Out<n>.WidthInLayout	Integer	Slot13.Out1.WidthInLayout = 1280 !Done Slot13.Out1.WidthInLayout	Get or set the width of this output within the layout
HeightInLayout	Slot<n>.Out<n>.HeightInLayout	Integer	Slot13.Out1.HeightInLayout = 720 !Done Slot13.Out1.HeightInLayout	Get or set the height of this output within the layout

Property Name	Syntax	Type	Example	Description
LayoutXCentre	Slot<n>.Out<n>.LayoutXCentre	Integer	Slot13.Out1.LayoutXCentre = 55 !Done Slot13.Out1.LayoutXCentre	Get or set the centre X coordinate of this output
LayoutYCentre	Slot<n>.Out<n>.LayoutYCentre	Integer	Slot13.Out1.LayoutYCentre = 0 !Done Slot13.Out1.LayoutYCentre	Get or set the centre Y coordinate of this output
RotateOutDeg	Slot<n>.Out<n>.RotateOutDeg	Degree	Slot13.Out1.RotateOutDeg = 0 !Done Slot13.Out1.RotateOutDeg	Get or set the degree of rotation of this output. From 0 to 359
GammaRed	Slot<n>.Out<n>.GammaRed	Number	Slot13.Out1.GammaRed = 1 !Done Slot13.Out1.GammaRed	Get or set the red gamma value for this output Range: 0.30 to 2.00
GammaGreen	Slot<n>.Out<n>.GammaGreen	Number	Slot13.Out1.GammaGreen = 1 !Done Slot13.Out1.GammaGreen	Get or set the green gamma value for this output Range: 0.30 to 2.00
GammaBlue	Slot<n>.Out<n>.GammaBlue	Number	Slot13.Out1.GammaBlue = 1 !Done Slot13.Out1.GammaBlue	Get or set the blue gamma value for this output Range: 0.30 to 2.00
SCurve	Slot<n>.Out<n>.SCurve	Number	Slot13.Out1.SCurve = 1 !Done Slot13.Out1.SCurve	Get or set the SCurve value for this output. (brightness curve) Range: 0.30 to 2.00
EdgeBlend_Mode	Slot<n>.Out<n>.EdgeBlend_Mode	Boolean	Slot13.Out1.EdgeBlend_Mode = Off !Done Slot13.Out1.EdgeBlend_Mode	Get or set the addition of a border to this output to aid with edge blending.
OuterGrid	Slot<n>.Out<n>.OuterGrid	Boolean	Slot13.Out1.OuterGrid = Off !Done Slot13.Out1.OuterGrid	Get or set if an alignment grid is to be shown on this output. Note that the DisplayType must be set to Projector.
LeftOverlap	Slot<n>.Out<n>.LeftOverlap	Integer	Slot13.Out1.LeftOverlap = 0 !Done Slot13.Out1.LeftOverlap	Used in Edge Blending. The values are calculated by CORIOgrapher and depend on the physical projector position.
RightOverlap	Slot<n>.Out<n>.RightOverlap	Integer	Slot13.Out1.RightOverlap = 0 !Done Slot13.Out1.RightOverlap	
TopOverlap	Slot<n>.Out<n>.TopOverlap	Integer	Slot13.Out1.TopOverlap = 0 !Done Slot13.Out1.TopOverlap	

Property Name	Syntax	Type	Example	Description
BottomOverlap	Slot<n>.Out<n>.BottomOverlap	Integer	Slot13.Out1.BottomOverlap = 0 !Done Slot13.Out1.BottomOverlap	
LeftEBPos	Slot<n>.Out<n>.LeftEBPos	Integer	Slot13.Out1.LeftEBPos = -511 !Done Slot13.Out1.LeftEBPos	
RightEBPos	Slot<n>.Out<n>.RightEBPos	Integer	Slot13.Out1.RightEBPos = 511 !Done Slot13.Out1.RightEBPos	
TopEBPos	Slot<n>.Out<n>.TopEBPos	Integer	Slot13.Out1.TopEBPos = -383 !Done Slot13.Out1.TopEBPos	
BottomEBPos	Slot<n>.Out<n>.BottomEBPos	Integer	Slot13.Out1.BottomEBPos = 383 !Done Slot13.Out1.BottomEBPos	
Centre_BB	Slot<n>.Out<n>.Centre_BB	Integer	Slot13.Out1.Centre_BB = 0 !Done Slot13.Out1.Centre_BB	
Left_BB	Slot<n>.Out<n>.Left_BB	Integer	Slot13.Out1.Left_BB = 0 !Done Slot13.Out1.Left_BB	
Right_BB	Slot<n>.Out<n>.Right_BB	Integer	Slot13.Out1.Right_BB = 0 !Done Slot13.Out1.Right_BB	
Top_BB	Slot<n>.Out<n>.Top_BB	Integer	Slot13.Out1.Top_BB = 0 !Done Slot13.Out1.Top_BB	
Bottom_BB	Slot<n>.Out<n>.Bottom_BB	Integer	Slot13.Out1.Bottom_BB = 0 !Done Slot13.Out1.Bottom_BB	
Equipment	Slot<n>.Out<n>.Equipment	String	Slot13.Out1.Equipment = "Default 46 inch 16:9 Display" !Done Slot13.Out1.Equipment	Get or set the equipment connected to this input.
PhysicalCenterX	Slot<n>.Out<n>.PhysicalCenterX	Integer	Slot13.Out1.PhysicalCenterX = 43900 !Done Slot13.Out1.PhysicalCenterX	Get or set the center of the display in microns.
PhysicalCenterY	Slot<n>.Out<n>.PhysicalCenterY	Integer	Slot13.Out1.PhysicalCenterY = 0 !Done Slot13.Out1.PhysicalCenterY	Get or set the center of the display as a pixel location (in vertical axis)
PhysicalWidth	Slot<n>.Out<n>.PhysicalWidth	Integer	Slot13.Out1.PhysicalWidth = 1018300 !Done Slot13.Out1.PhysicalWidth	Get or set the width of the display in microns.

Property Name	Syntax	Type	Example	Description
PhysicalHeight	Slot<n>.Out<n>.PhysicalHeight	Integer	Slot13.Out1.PhysicalHeight = 572800 !Done Slot13.Out1.PhysicalHeight	Get or set the height of the display in microns.
PhysicalPixelWidth	Slot<n>.Out<n>.PhysicalPixelWidth	Integer	Slot13.Out1.PhysicalPixelWidth = 1280 !Done Slot13.Out1.PhysicalPixelWidth	Get or set the width of a pixel on the display in microns.
PhysicalPixelHeight	Slot<n>.Out<n>.PhysicalPixelHeight	Integer	Slot13.Out1.PhysicalPixelHeight = 720 !Done Slot13.Out1.PhysicalPixelHeight	Defines the height of a pixel on the display in microns.
PhysicalBezelTop	Slot<n>.Out<n>.PhysicalBezelTop	Integer	Slot13.Out1.PhysicalBezelTop = 10000 !Done Slot13.Out1.PhysicalBezelTop	Defines the size of the top bezel in microns.
PhysicalBezelBottom	Slot<n>.Out<n>.PhysicalBezelBottom	Integer	Slot13.Out1.PhysicalBezelBottom = 10000 !Done Slot13.Out1.PhysicalBezelBottom	Defines the size of the bottom bezel in microns
PhysicalBezelLeft	Slot<n>.Out<n>.PhysicalBezelLeft	Integer	Slot13.Out1.PhysicalBezelLeft = 10000 !Done Slot13.Out1.PhysicalBezelLeft	Defines the size of the left bezel in microns
PhysicalBezelRight	Slot<n>.Out<n>.PhysicalBezelRight	Integer	Slot13.Out1.PhysicalBezelRight = 10000 !Done Slot13.Out1.PhysicalBezelRight	Defines the size of the right bezel in microns
CutToBlack	Slot<n>.Out<n>.CutToBlack	Boolean	Slot13.Out1.CutToBlack = Off !Done Slot13.Out1.CutToBlack	Get or set the output to black. When setting multiple outputs to black it is recommended to surround them with startbatch() endbatch() to synchronise output blanking
FramelockSource	Slot<n>.Out<n>.FramelockSource	Input	Slot13.Out1.FramelockSource = NULL !Done Slot13.Out1.FramelockSource	Get or set the source to use for Frame-lock.
FramelockEnable	Slot<n>.Out<n>.FramelockEnable	Boolean	Slot13.Out1.FramelockEnable = Off !Done Slot13.Out1.FramelockEnable	Get or set to use Frame-lock.
FramelockStatus	Slot<n>.Out<n>.FramelockStatus	FramelockStatus	Slot13.Out1.FramelockStatus = Unlocked !Done Slot13.Out1.FramelockStatus	Read only. Get if this output is locked to the Frame-lock source.

Property Name	Syntax	Type	Example	Description
Resolutions	Slot<n>	List	Slot13.Resolutions.Resolution1 = <...> Slot13.Resolutions.Resolution2 = <...> Slot13.Resolutions.Resolution3 = <...> Slot13.Resolutions.Resolution4 = <...> Slot13.Resolutions.Resolution5 = <...> Slot13.Resolutions.Resolution6 = <...> Slot13.Resolutions.Resolution7 = <...> Slot13.Resolutions.Resolution8 = <...> Slot13.Resolutions.Resolution9 = <...> Slot13.Resolutions.Resolution10 = <...> Slot13.Resolutions.Resolution11 = <...> Slot13.Resolutions.Resolution12 = <...> Slot13.Resolutions.Resolution13 = <...> Slot13.Resolutions.Resolution14 = <...> Slot13.Resolutions.Resolution15 = <...> Slot13.Resolutions.Resolution16 = <...> Slot13.Resolutions.Resolution17 = <...> Slot13.Resolutions.Resolution18 = <...> Slot13.Resolutions.Resolution19 = <...> Slot13.Resolutions.Resolution20 = <...> Slot13.Resolutions.Resolution21 = <...> !Done Slot13.Resolutions	List the properties for a Resolution where <n> is the number of the Resolution. Note that Custom Resolution are not supported.
Resolution<n>	Slot<n>.Resolutions.Resolution<n>	List	Slot13.Resolutions.Resolution1.Name = 720x487i59.94 Slot13.Resolutions.Resolution1.Aspect = 4:3 Slot13.Resolutions.Resolution1.CanFrameLock = Yes !Done Slot13.Resolutions.Resolution1	List the properties of the selected resolution.
Name	Slot<n>.Resolutions.Resolution<n>.Name	String	Slot13.Resolutions.Resolution1.Name = 720x487i59.94 !Done Slot13.Resolutions.Resolution1.Name	Read only. Get the name of this resolution.



Property Name	Syntax	Type	Example	Description
Aspect	Slot<n>.Resolutions.Resolution<n>.Aspect	AspectRatio	Slot13.Resolutions.Resolution1.Aspect = 4:3 !Done Slot13.Resolutions.Resolution1.Aspect	Read only. Get the aspect ratio of this resolution. Used assist to in the signal conversion when an input and the output have different aspect ratios.
CanFramelock	Slot<n>.Resolutions.Resolution<n>.CanFramelock	Boolean	Slot13.Resolutions.Resolution1.CanFramelock = Yes !Done Slot13.Resolutions.Resolution1.CanFramelock	Read only. Get if the Resolution is compatible with Framelock.
AudioEnable	Slot10.Out1.AudioEnable	Boolean	Slot10.Out1.AudioEnable = On !Done Slot10.Out1.AudioEnable	Enable the embedded audio on a specific output, independent of canvas On : Off Default; On
AudioMode	Slot10.Out1.AudioMode	String	Slot10.Out1.AudioMode = FromSource !Done Slot10.Out1.AudioMode	Read only, set via canvas menu
AudioFollowWindow	Slot10.Out1.AudioFollowWindow	Integer	Slot10.Out1.AudioFollowWindow = 1 !Done Slot10.Out1.AudioFollowWindow	Read only, set via canvas menu
AudioSource	Slot10.Out1.AudioSource	String	Slot10.Out1.AudioSource = NULL !Done Slot10.Out1.AudioSource	Read only, set via canvas menu
.AudioVolume	Slot10.Out1.AudioVolume	Integer	Slot10.Out1.AudioVolume = 100 !Done Slot10.Out1.AudioVolume	Read only, set via canvas menu
AudioMute	Slot10.Out1.AudioMute	Boolean	Slot10.Out1.AudioMute = Off !Done Slot10.Out1.AudioMute	Mute the embedded audio on a specific output, independent of canvas On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 13 phase -----L:.....:R-----, centres at 21, 22 (21).	Initiate a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	!Done Slot13.PhaseRetrain() 720x487i59.94;4:3; 720x576i50;4:3; 1280x720p23.98;16:9; 1280x720p24;16:9; 1280x720p25;16:9; 1280x720p29.97;16:9; 1280x720p30;16:9; 1280x720p50;16:9; 1280x720p59.94;16:9; 1280x720p60;16:9; 1920x1080i50;16:9; 1920x1080i59.94;16:9; 1920x1080i60;16:9; 1920x1080p23.98;16:9; 1920x1080p24;16:9; 1920x1080p25;16:9; 1920x1080p29.97;16:9; 1920x1080p30;16:9; 1920x1080p50;16:9; 1920x1080p59.94;16:9; 1920x1080p60;16:9; !Failed Slot13.Module_Resolutions()	List all of the supported resolutions for this slot. Custom resolutions will appear at the end of the list. The list is semicolon separated.

## Events

Category	Event	Syntax	Example	Description
OUTPUT	AUDIO_FOLLOW_WINDOW_CHANGED	AUDIO_FOLLOW_WINDOW_CHANGED,<output>,<Window Source>	!Event OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED,Slot4.Out1,Window5	CORIOmaster micro only Raised when a window being used to source the audio playing on the identified output is changed to another window.

Category	Event	Syntax	Example	Description
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioEnable,Off	Raised when the AudioEnable on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioMute,On	Raised when the AudioMute on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,CutToBlack,On	Raised when the CutToBlack on a specific output is changed. On   Off
OUTPUT	STATUS_GROUP	STATUS_GROUP,<output>,<property>,<value>	! Event OUTPUT, STATUS_GROUP,Slot16.Out1, FramelockStatus,Locked	Raised when an output property is changed. Properties; FramelockStatus; Locked   Unlocked Genlock; Off   Locked Resolution; resolution when a changed has been forced to meet HDCP rules

## HDBASE-T Output Module

This section covers the following modules:

AK44 HDBaseT scaled 2 output module

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot15.Cardtype = HDBASET 2-out Slot15.Carddata = <No Value> Slot15.Out1 = <...> Slot15.Out2 = <...> Slot15.PhaseRetrain() Slot15.Module_Resolutions() Slot15.Resolutions = <...> !Done Slot15	List the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot15.Cardtype = HDBASET 2-out !Done Slot15.Cardtype	Read-only. Get the type of the card in this slot
Out<n>	Slot<n>.Out<n>	List	Slot15.Out1.FullName = Out1 Slot15.Out1.Status = UNKNOWN Slot15.Out1.Alias = s15o1 Slot15.Out1.AspectChoice = 4:3 Slot15.Out1.DisplayType = Monitor Slot15.Out1.Resolution = 1280x720p60 Slot15.Out1.DefaultLoRes = 720x576i50 Slot15.Out1.Width = 1280 Slot15.Out1.Height = 720 Slot15.Out1.Field_Rate = 60.00 Slot15.Out1.Frame_ip = p Slot15.Out1.AnalogType = RGBHV Slot15.Out1.OutputMode = Auto	List the properties for an Output on the given Slot. Where Out<n> is the output on the card.  Note: Audio, AudOutA-D may not be present in all system configurations.

Property Name	Syntax	Type	Example	Description
			Slot15.Out1.ColourScale = Auto Slot15.Out1.GenlockSource = NULL Slot15.Out1.Genlock = Off Slot15.Out1.RawMatrixSwitch = Off Slot15.Out1.Audio = Off Slot15.Out1.AudOutA = NULL Slot15.Out1.AudOutB = NULL Slot15.Out1.AudOutC = NULL Slot15.Out1.AudOutD = NULL Slot15.Out1.ForceLinkRefresh() Slot15.Out1.HDCP_Active = Active Slot15.Out1.HDCP_Downstream = HoldOn Slot15.Out1.HDMI = Found Slot15.Out1.Layout = Layout4 Slot15.Out1.WidthInLayout = 1024 Slot15.Out1.HeightInLayout = 768 Slot15.Out1.LayoutXCentre = 0 Slot15.Out1.LayoutYCentre = 0 Slot15.Out1.RotateOutDeg = 0 Slot15.Out1.HFlip = Off Slot15.Out1.VFlip = Off Slot15.Out1.GammaRed = 1 Slot15.Out1.GammaGreen = 1 Slot15.Out1.GammaBlue = 1 Slot15.Out1.SCurve = 1 Slot15.Out1.EdgeBlend_Mode = Off Slot15.Out1.OuterGrid = Off Slot15.Out1.InnerGrid = Off Slot15.Out1.LeftOverlap = 80 Slot15.Out1.RightOverlap = 80 Slot15.Out1.TopOverlap = 80	

Property Name	Syntax	Type	Example	Description
			Slot15.Out1.BottomOverlap = 80 Slot15.Out1.LeftEBPos = -511 Slot15.Out1.RightEBPos = 511 Slot15.Out1.TopEBPos = -383 Slot15.Out1.BottomEBPos = 383 Slot15.Out1.Centre_BB = 0 Slot15.Out1.Left_BB = 0 Slot15.Out1.Right_BB = 0 Slot15.Out1.Top_BB = 0 Slot15.Out1.Bottom_BB = 0 Slot15.Out1.ProjectorWidthDeg = 30 Slot15.Out1.ProjectorHeightDeg = 30 Slot15.Out1.KeystoneXDeg = 0 Slot15.Out1.KeystoneYDeg = 0 Slot15.Out1.WarpTable_Filename = Slot15.Out1.WarpTable = 0 Slot15.Out1.EDID_Filename = Slot15.Out1.View = MonitorViews.View3 Slot15.Out1.ViewPosCode = 18 Slot15.Out1.AudioBars = 4 Slot15.Out1.Equipment = Slot15.Out1.PhysicalCenterX = 0 Slot15.Out1.PhysicalCenterY = 0 Slot15.Out1.PhysicalWidth = 0 Slot15.Out1.PhysicalHeight = 0 Slot15.Out1.PhysicalPixelWidth = 0 Slot15.Out1.PhysicalPixelHeight = 0 Slot15.Out1.PhysicalBezelTop = 0 Slot15.Out1.PhysicalBezelBottom = 0 Slot15.Out1.PhysicalBezelLeft = 0 Slot15.Out1.PhysicalBezelRight = 0	

Property Name	Syntax	Type	Example	Description
			Slot15.Out1.InsList = Slot3.In1 Slot15.Out1.CutToBlack = Off Slot15.Out1.HDBaseT = <...> !Done Slot15.Out1	
FullName	Slot<n>.Out<n>.FullName	String	Slot15.Out1.FullName = Out1 !Done Slot15.Out1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.Out<n>.Status	StatusEnum	Slot15.Out1.Status = UNKNOWN !Done Slot15.Out1.Status	Read-only. Get the status of the output
Alias	Slot<n>.Out<n>.Alias	String	Slot15.Out1.Alias = s15o1 !Done Slot15.Out1.Alias	Get or set the Alias name for this output. <b>Warning it is possible to set this value to that used by another output, in which case the other value will be set to NULL.</b>
DisplayType	Slot<n>.Out<n>.DisplayType	DisplayType	Slot15.Out1.DisplayType = Monitor !Done Slot15.Out1.DisplayType	Get or set the type of display connected to this output.
Resolution	Slot<n>.Out<n>.Resolution	Resolution	Slot15.Out1.Resolution = 1280x720p60 !Done Slot15.Out1.Resolution	Get or set the resolution to use on this output. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.

Property Name	Syntax	Type	Example	Description
DefaultLoRes	Slot<n>.Out<n>.DefaultLoRes	Resolution	Slot15.Out1.DefaultLoRes = 720x576i50 !Done Slot15.Out1.DefaultLoRes	Get or set the resolution to use on this output when HDCP is requested by the source but the display failed HDCP negotiation. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.
Width	Slot<n>.Out<n>.Width	Integer	Slot15.Out1.Width = 1280 !Done Slot15.Out1.Width	Read-only. Get the width of this output based on the select resolution.
Height	Slot<n>.Out<n>.Height	Integer	Slot15.Out1.Height = 720 !Done Slot15.Out1.Height	Read-only. Get the height of this output based on the select resolution.
Field_Rate	Slot<n>.Out<n>.Field_Rate	Number	Slot15.Out1.Field_Rate = 60.00 !Done Slot15.Out1.Field_Rate	Read-only. Get the field rate for this output based on the select resolution.
Frame_ip	Slot<n>.Out<n>.Frame_ip	FrameType	Slot15.Out1.Frame_ip = p !Done Slot15.Out1.Frame_ip	Read-only. Get the frame type for this output based on the select resolution.
OutputMode	Slot<n>.Out<n>.OutputMode	String	Slot15.Out1.OutputMode = Auto !Done Slot15.Out1.OutputMode	Auto = default, unit selects output appropriately based on incoming EDID from the display (HDMI/DVI) HDMI = EDID from sink is ignored and output is forced to HDMI DVI = EDID from sink is ignored and output is forced to DVI
ColourScale	Slot<n>.Out<n>.ColourScale	ColourScale	Slot15.Out1.ColourScale = Auto !Done Slot15.Out1.ColourScale	Get or set the color scale to use on this output.



Property Name	Syntax	Type	Example	Description
GenlockSource	Slot<n>.Out<n>.GenlockSource	Input	Slot15.Out1.GenlockSource = NULL !Done Slot15.Out1.GenlockSource	Get or set the Input to be used as the genlock source for the Output. If no Genlock is to be use then the value is to be NULL.
Genlock	Slot<n>.Out<n>.Genlock	GenlockStatus	Slot15.Out1.Genlock = Off !Done Slot15.Out1.Genlock	Read-only. Get the status of genlock for this output.
HDCP_Active	Slot<n>.Out<n>.HDCP_Active	ActiveOff	Slot15.Out1.HDCP_Active = Off !Done Slot15.Out1.HDCP_Active	Read only. Get the HDCP status of this output.
HDCP_Downstream	Slot<n>.Out<n>.HDCP_Downstream	HDCPDownstream	Slot15.Out1.HDCP_Downstream = HoldOn !Done Slot15.Out1.HDCP_Downstream	Get or set the downstream HDCP mode.
HDMI	Slot<n>.Out<n>.HDMI	FoundNot	Slot15.Out1.HDMI = Found !Done Slot15.Out1.HDMI	Read-only. Get the detected HDMI status.
Layout	Slot<n>.Out<n>.Layout	Layout	Slot15.Out1.Layout = NULL !Done Slot15.Out1.Layout	Get or set the layout to which this output is assigned
WidthInLayout	Slot<n>.Out<n>.WidthInLayout	Integer	Slot15.Out1.WidthInLayout = 1024 !Done Slot15.Out1.WidthInLayout	Get or set the width of this output within the layout
HeightInLayout	Slot<n>.Out<n>.HeightInLayout	Integer	Slot15.Out1.HeightInLayout = 768 !Done Slot15.Out1.HeightInLayout = 768	Get or set the height of this output within the layout
LayoutXCentre	Slot<n>.Out<n>.LayoutXCentre	Integer	Slot15.Out1.HeightInLayout = 768 !Done Slot15.Out1.HeightInLayout	Get or set the centre X coordinate of this output
LayoutYCentre	Slot<n>.Out<n>.LayoutYCentre	Integer	Slot15.Out1.LayoutYCentre = 0 !Done Slot15.Out1.LayoutYCentre	Get or set the centre Y coordinate of this output
RotateOutDeg	Slot<n>.Out<n>.RotateOutDeg	Degree	Slot15.Out1.RotateOutDeg = 0 !Done Slot15.Out1.RotateOutDeg	Get or set the degree of rotation of this output. From 0 to 359
GammaRed	Slot<n>.Out<n>.GammaRed	Number	Slot15.Out1.GammaRed = 1 !Done Slot15.Out1.GammaRed	Get or set the red gamma value for this output Range: 0.30 to 2.00

Property Name	Syntax	Type	Example	Description
GammaGreen	Slot<n>.Out<n>.GammaGreen	Number	Slot15.Out1.GammaGreen = 1 !Done Slot15.Out1.GammaGreen	Get or set the green gamma value for this output Range: 0.30 to 2.00
GammaBlue	Slot<n>.Out<n>.GammaBlue	Number	Slot15.Out1.GammaBlue = 1 !Done Slot15.Out1.GammaBlue	Get or set the blue gamma value for this output Range: 0.30 to 2.00
SCurve	Slot<n>.Out<n>.SCurve	Number	Slot15.Out1.SCurve = 1 !Done Slot15.Out1.SCurve	Get or set the SCurve value for this output. (brightness curve) Range: 0.30 to 2.00
EdgeBlend_Mode	Slot<n>.Out<n>.EdgeBlend_Mode	Boolean	Slot15.Out1.EdgeBlend_Mode = Off !Done Slot15.Out1.EdgeBlend_Mode	Get or set the addition of a border to this output to aid with edge blending.
OuterGrid	Slot<n>.Out<n>.OuterGrid	Boolean	Slot15.Out1.OuterGrid = Off !Done Slot15.Out1.OuterGrid	Get or set if an alignment grid is shown on this output. The DisplayType must be set to Projector.
LeftOverlap	Slot<n>.Out<n>.LeftOverlap	Integer	Slot15.Out1.LeftOverlap = 80 !Done Slot15.Out1.LeftOverlap	Used in Edge Blending. Values are worked out by the GUI and depend on the physical projector position.
RightOverlap	Slot<n>.Out<n>.RightOverlap	Integer	Slot15.Out1.RightOverlap = 80 !Done Slot15.Out1.RightOverlap	
TopOverlap	Slot<n>.Out<n>.TopOverlap	Integer	Slot15.Out1.TopOverlap = 80 !Done Slot15.Out1.TopOverlap	
BottomOverlap	Slot<n>.Out<n>.BottomOverlap	Integer	Slot15.Out1.BottomOverlap = 80 !Done Slot15.Out1.BottomOverlap	
LeftEBPos	Slot<n>.Out<n>.LeftEBPos	Integer	Slot15.Out1.LeftEBPos = -511 !Done Slot15.Out1.LeftEBPos	
RightEBPos	Slot<n>.Out<n>.RightEBPos	Integer	Slot15.Out1.RightEBPos = 511 !Done Slot15.Out1.RightEBPos	
TopEBPos	Slot<n>.Out<n>.TopEBPos	Integer	Slot15.Out1.TopEBPos = -383 !Done Slot15.Out1.TopEBPos	
BottomEBPos	Slot<n>.Out<n>.BottomEBPos	Integer	Slot15.Out1.BottomEBPos = 383 !Done Slot15.Out1.BottomEBPos	

Property Name	Syntax	Type	Example	Description
Centre_BB	Slot<n>.Out<n>.Centre_BB	Integer	Slot15.Out1.Centre_BB = 0 !Done Slot15.Out1.Centre_BB	
Left_BB	Slot<n>.Out<n>.Left_BB	Integer	Slot15.Out1.Left_BB = 0 !Done Slot15.Out1.Left_BB	
Right_BB	Slot<n>.Out<n>.Right_BB	Integer	Slot15.Out1.Right_BB = 0 !Done Slot15.Out1.Right_BB	
Top_BB	Slot<n>.Out<n>.Top_BB	Integer	Slot15.Out1.Top_BB = 0 !Done Slot15.Out1.Top_BB	
Bottom_BB	Slot<n>.Out<n>.Bottom_BB	Integer	Slot15.Out1.Bottom_BB = 0 !Done Slot15.Out1.Bottom_BB	
EDID_Filename	Slot<n>.Out<n>.EDID_Filename	String	Slot15.Out1.EDID_Filename = !Done Slot15.Out1.EDID_Filename	Get or set the EDID file in any currently being used for this output.
Equipment	Slot<n>.Out<n>.Equipment	String	Slot15.Out1.Equipment = !Done Slot15.Out1.Equipment	Get or set the equipment connected to this input.
PhysicalCenterX	Slot<n>.Out<n>.PhysicalCenterX	Integer	Slot15.Out1.PhysicalCenterX = 0 !Done Slot15.Out1.PhysicalCenterX	Get or set the center of the display in microns.
PhysicalCenterY	Slot<n>.Out<n>.PhysicalCenterY	Integer	Slot15.Out1.PhysicalCenterY = 0 !Done Slot15.Out1.PhysicalCenterY	Get or set the center of the display as a pixel location (in vertical axis)
PhysicalWidth	Slot<n>.Out<n>.PhysicalWidth	Integer	Slot15.Out1.PhysicalWidth = 0 !Done Slot15.Out1.PhysicalWidth	Get or set the width of the display in microns.
PhysicalHeight	Slot<n>.Out<n>.PhysicalHeight	Integer	Slot15.Out1.PhysicalHeight = 0 !Done Slot15.Out1.PhysicalHeight	Get or set the height of the display in microns.
PhysicalPixelWidth	Slot<n>.Out<n>.PhysicalPixelWidth	Integer	Slot15.Out1.PhysicalPixelWidth = 0 !Done Slot15.Out1.PhysicalPixelWidth	Get or set the width of a pixel on the display in microns.
PhysicalPixelHeight	Slot<n>.Out<n>.PhysicalPixelHeight	Integer	Slot15.Out1.PhysicalPixelHeight = 0 !Done Slot15.Out1.PhysicalPixelHeight	Defines the height of a pixel on the display in microns.
PhysicalBezelTop	Slot<n>.Out<n>.PhysicalBezelTop	Integer	Slot15.Out1.PhysicalBezelTop = 0 !Done Slot15.Out1.PhysicalBezelTop	Defines the size of the top bezel in microns.
PhysicalBezelBottom	Slot<n>.Out<n>.PhysicalBezelBottom	Integer	Slot15.Out1.PhysicalBezelBottom = 0 !Done Slot15.Out1.PhysicalBezelBottom	Defines the size of the bottom bezel in microns

Property Name	Syntax	Type	Example	Description
PhysicalBezelLeft	Slot<n>.Out<n>.PhysicalBezelLeft	Integer	Slot15.Out1.PhysicalBezelLeft = 0 !Done Slot15.Out1.PhysicalBezelLeft	Defines the size of the left bezel in microns
PhysicalBezelRight	Slot<n>.Out<n>.PhysicalBezelRight	Integer	Slot15.Out1.PhysicalBezelRight = 0 !Done Slot15.Out1.PhysicalBezelRight	Defines the size of the right bezel in microns
CutToBlack	Slot<n>.Out<n>.CutToBlack	Boolean	Slot15.Out1.CutToBlack = Off !Done Slot15.Out1.CutToBlack	Get or set the output to black. When setting multiple outputs to black it is recommended to surround them with startbatch() endbatch() to synchronise output blanking
HDBaseT	Slot<n>.Out<n>.HDBaseT	Sub-Menu	Slot15.Out1.HDBaseT = <...>	List the HDBaseT specific attributes for this card. See the HDBASE-T Sub-Menu section below.
FramelockSource	Slot<n>.Out<n>.FramelockSource	Input	Slot15.Out1.FramelockSource = NULL !Done Slot15.Out1.FramelockSource	Get or set the source to use for Frame-lock.
FramelockEnable	Slot<n>.Out<n>.FramelockEnable	Boolean	Slot15.Out1.FramelockEnable = Off !Done Slot15.Out1.FramelockEnable	Get or set to use Frame-lock.
FramelockStatus	Slot<n>.Out<n>.FramelockStatus	FramelockStatus	Slot15.Out1.FramelockStatus = Unlocked !Done Slot15.Out1.FramelockStatus	Read only. Get if this output is locked to the Frame-lock source.

Property Name	Syntax	Type	Example	Description
Resolutions	Slot<n>	List	<pre>Slot15.Resolutions.Resolution1 = &lt;...&gt; Slot15.Resolutions.Resolution2 = &lt;...&gt; ... Slot15.Resolutions.Resolution1000 = &lt;...&gt; Slot15.Resolutions.Resolution1001 = &lt;...&gt; Slot15.Resolutions.Resolution1002 = &lt;...&gt; Slot15.Resolutions.Resolution1003 = &lt;...&gt; Slot15.Resolutions.Resolution1004 = &lt;...&gt; Slot15.Resolutions.Resolution1005 = &lt;...&gt; Slot15.Resolutions.Resolution1006 = &lt;...&gt; Slot15.Resolutions.Resolution1007 = &lt;...&gt; Slot15.Resolutions.Resolution1008 = &lt;...&gt; Slot15.Resolutions.Resolution1009 = &lt;...&gt; !Done Slot15.Resolutions</pre>	<p>List the properties for a Resolution. Where &lt;n&gt; is the number of the Resolution.</p> <p>Note that Resolution1000 to Resolution1009 are Custom Resolutions.</p>
Resolution<n>	Slot<n>.Resolutions.Resolution<n>	List	<pre>Slot15.Resolutions.Resolution1.Name = 640x480p60 Slot15.Resolutions.Resolution1.Aspect = 4:3 Slot15.Resolutions.Resolution1.CanFrameLock = No !Done Slot15.Resolutions.Resolution1</pre>	List the properties of the selected resolution.
Name	Slot<n>.Resolutions.Resolution<n>.Name	String	<pre>Slot15.Resolutions.Resolution1.Name = 640x480p60 !Done Slot15.Resolutions.Resolution1.Name</pre>	<p>Read only.</p> <p>Get the name of this resolution.</p>
Aspect	Slot<n>.Resolutions.Resolution<n>.Aspect	AspectRatio	<pre>Slot15.Resolutions.Resolution1.Aspect = 4:3 !Done Slot15.Resolutions.Resolution1.Aspect</pre>	<p>Read only.</p> <p>Get or set the aspect ratio of this resolution</p> <p>Used assist in the signal conversion when an input and the output have different aspect ratio.</p>

Property Name	Syntax	Type	Example	Description
CanFramelock	Slot<n>.Resolutions.Resolution<n>.CanFramelock	Boolean	Slot15.Resolutions.Resolution1.CanFramelock = No !Done Slot15.Resolutions.Resolution1.CanFramelock	Read only. Get if the Resolution is compatible with Framelock.
AudioEnable	Slot10.Out1.AudioEnable	Boolean	Slot10.Out1.AudioEnable = On !Done Slot10.Out1.AudioEnable	Enable the embedded audio on a specific output, independent of canvas On : Off Default; On
AudioMode	Slot10.Out1.AudioMode	String	Slot10.Out1.AudioMode = FromSource !Done Slot10.Out1.AudioMode	Read only, set via canvas menu
AudioFollowWindow	Slot10.Out1.AudioFollowWindow	Integer	Slot10.Out1.AudioFollowWindow = 1 !Done Slot10.Out1.AudioFollowWindow	Read only, set via canvas menu
AudioSource	Slot10.Out1.AudioSource	String	Slot10.Out1.AudioSource = NULL !Done Slot10.Out1.AudioSource	Read only, set via canvas menu
.AudioVolume	Slot10.Out1.AudioVolume	Integer	Slot10.Out1.AudioVolume = 100 !Done Slot10.Out1.AudioVolume	Read only, set via canvas menu
AudioMute	Slot10.Out1.AudioMute	Boolean	Slot10.Out1.AudioMute = Off !Done Slot10.Out1.AudioMute	Mute the embedded audio on a specific output, independent of canvas On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 15 phase -----R:.....R---, centres at 23, 23 (23). !Done Slot15.PhaseRetrain()	Initiates a Phase retrain for this slot

Command	Syntax	Type	Example	Description
Module_Resolutions	Slot<n>.Module_Resolutions()	List	640x480p60;4:3; 640x480p72;4:3; ... Empty1001;4:3; Empty1002;4:3; Empty1003;4:3; Empty1004;4:3; Empty1005;4:3; Empty1006;4:3; Empty1007;4:3; Empty1008;4:3; Empty1009;4:3; !Done Slot15.Module_Resolutions()	List all of the supported resolutions for this slot. Custom resolutions will appear at the end of the list. The list is semicolon separated.

## Events

Category	Event	Syntax	Example	Description
OUTPUT	AUDIO_FOLLOW_WINDOW_CHANGED	AUDIO_FOLLOW_WINDOW_CHANGED,<output>,<Window Source>	!Event OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGED,Slot4.Out1,Window5	CORIOmaster micro only Raised when a window being used to source the audio playing on the identified output is changed to another window.
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<AudioEnable,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioEnable,Off	Raised when the AudioEnable on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<AudioMute,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioMute,On	Raised when the AudioMute on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,<CutToBlack,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,CutToBlack,On	Raised when the CutToBlack on a specific output is changed. On   Off

Category	Event	Syntax	Example	Description
OUTPUT	STATUS_GROUP	STATUS_GROUP,<output>,<property>,<value>	! Event OUTPUT, STATUS_GROUP,Slot16.Out1,HDCP_Active,Active	Raised when an output property is changed. Properties; HDCP_Active; Active   Off HDMI; Found   Not_Found FramelockStatus; Locked   Unlocked Genlock; Off   Locked



## HDMI Output Module

This section covers the following modules:

AK62, AK68, AK75, AK88 HDMI 1 output 4k, AX78 4x 1080P HDMI

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot15.Cardtype = HDMI 4K 1-out Slot15.Carddata = <...> Slot15.Out1 = <...> Slot15.PhaseRetrain() Slot15.Module_Resolutions() Slot15.Resolutions = <...> !Done Slot15	List the properties of the card in this slot or "NO CARD" if the slot is empty.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot15.Cardtype = HDMI 4K 1-out !Done Slot15.Cardtype	Read-only. Get the type of the card in this slot
Out<n>	Slot<n>.Out<n>	List	Slot15.Out1 Slot15.Out1.FullName = Out1 Slot15.Out1.Status = UNKNOWN Slot15.Out1.Alias = s13o1 Slot15.Out1.AspectChoice = 4:3 Slot15.Out1.DisplayType = Monitor Slot15.Out1.Resolution = 2048x1152p60 Slot15.Out1.DefaultLoRes = 720x576i50 Slot15.Out1.Width = 2048 Slot15.Out1.Height = 1152 Slot15.Out1.Field_Rate = 59.99 Slot15.Out1.Frame_ip = p Slot15.Out1.AnalogType = RGBHV Slot15.Out1.OutputMode = Auto	List the properties for an Output on the given Slot. Where Out<n> is the output on the card.

Property Name	Syntax	Type	Example	Description
			Slot15.Out1.ColourScale = Auto Slot15.Out1.Dither = Off Slot15.Out1.GenlockSource = NULL Slot15.Out1.Genlock = Off Slot15.Out1.RawMatrixSwitch = Off Slot15.Out1.ForceLinkRefresh() Slot15.Out1.HDCP_Active = Active Slot15.Out1.HDCP_Downstream = HoldOn Slot15.Out1.HDMI = Found Slot15.Out1.Layout = Layout2 Slot15.Out1.WidthInLayout = 3840 Slot15.Out1.HeightInLayout = 2160 Slot15.Out1.LayoutXCentre = 23 Slot15.Out1.LayoutYCentre = 43 Slot15.Out1.RotateOutDeg = 0 Slot15.Out1.HFlip = Off Slot15.Out1.VFlip = Off Slot15.Out1.GammaRed = 1 Slot15.Out1.GammaGreen = 1 Slot15.Out1.GammaBlue = 1 Slot15.Out1.SCurve = 0.30 Slot15.Out1.EdgeBlend_Mode = Off Slot15.Out1.OuterGrid = Off Slot15.Out1.InnerGrid = Off Slot15.Out1.LeftOverlap = 80 Slot15.Out1.RightOverlap = 80 Slot15.Out1.TopOverlap = 80 Slot15.Out1.BottomOverlap = 80 Slot15.Out1.LeftEBPos = 0 Slot15.Out1.RightEBPos = 0 Slot15.Out1.TopEBPos = 0	

Property Name	Syntax	Type	Example	Description
			Slot15.Out1.BottomEBPos = 0 Slot15.Out1.Centre_BB = 0 Slot15.Out1.Left_BB = 0 Slot15.Out1.Right_BB = 0 Slot15.Out1.Top_BB = 0 Slot15.Out1.Bottom_BB = 0 Slot15.Out1.ProjectorWidthDeg = 30 Slot15.Out1.ProjectorHeightDeg = 30 Slot15.Out1.KeystoneXDeg = 0 Slot15.Out1.KeystoneYDeg = 0 Slot15.Out1.WarpTable_Filename = Slot15.Out1.WarpTable = 0 Slot15.Out1.EDID_Filename = Slot15.Out1.Equipment = "Default 4K 55 inch 16:9 Display" Slot15.Out1.PhysicalCenterX = 7244 Slot15.Out1.PhysicalCenterY = 13530 Slot15.Out1.PhysicalWidth = 1211488 Slot15.Out1.PhysicalHeight = 681461 Slot15.Out1.PhysicalPixelWidth = 3840 Slot15.Out1.PhysicalPixelHeight = 2160 Slot15.Out1.PhysicalBezelTop = 10000 Slot15.Out1.PhysicalBezelBottom = 10000 Slot15.Out1.PhysicalBezelLeft = 10000 Slot15.Out1.PhysicalBezelRight = 10000 Slot15.Out1.InsList = Slot4.In1 Slot15.Out1.CutToBlack = Off Slot15.Out1.FramelockSource = NULL Slot15.Out1.FramelockEnable = Off Slot15.Out1.FramelockStatus = Unlocked Slot15.Out1.DriveStrengthBoost = 0	

Property Name	Syntax	Type	Example	Description
			!Done Slot15.Out1	
FullName	Slot<n>.Out<n>.FullName	String	Slot15.Out1.FullName = Out1 !Done Slot15.Out1.FullName	Read-only. Get the full name of the Window
Status	Slot<n>.Out<n>.Status	StatusEnum	Slot15.Out1.Status = UNKNOWN !Done Slot15.Out1.Status	Read-only. Get the status of the output
Alias	Slot<n>.Out<n>.Alias	String	Slot15.Out1.Alias = s15o1 !Done Slot15.Out1.Alias	Get or set the Alias name for this output. <b>Warning it is possible to set this value to that used by another output, in which case the other value will be set to NULL.</b>
DisplayType	Slot<n>.Out<n>.DisplayType	DisplayType	Slot15.Out1.DisplayType = Monitor !Done Slot15.Out1.DisplayType	Get or set the type of display connected to this output.
Resolution	Slot<n>.Out<n>.Resolution	Resolution	Slot15.Out1.Resolution = 1280x720p60 !Done Slot15.Out1.Resolution	Get or set the resolution to use on this output. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.
DefaultLoRes	Slot<n>.Out<n>.DefaultLoRes	Resolution	Slot15.Out1.DefaultLoRes = 720x576i50 !Done Slot15.Out1.DefaultLoRes	Get or set the resolution to use on this output when HDCP is requested by the source but the display failed HDCP negotiation. This must be the name of a valid resolution. For more information see Resources Resolutions Commands on page 51 above.

Property Name	Syntax	Type	Example	Description
Width	Slot<n>.Out<n>.Width	Integer	Slot15.Out1.Width = 1280 !Done Slot15.Out1.Width	Read-only. Get the width of this output based on the select resolution.
Height	Slot<n>.Out<n>.Height	Integer	Slot15.Out1.Height = 720 !Done Slot15.Out1.Height	Read-only. Get the height of this output based on the select resolution.
Field_Rate	Slot<n>.Out<n>.Field_Rate	Number	Slot15.Out1.Field_Rate = 60.00 !Done Slot15.Out1.Field_Rate	Read-only. Get the field rate for this output based on the select resolution.
Frame_ip	Slot<n>.Out<n>.Frame_ip	FrameType	Slot15.Out1.Frame_ip = p !Done Slot15.Out1.Frame_ip	Read-only. Get the frame type for this output based on the select resolution.
OutputMode	Slot<n>.Out<n>.OutputMode	String	Slot15.Out1.OutputMode = Auto !Done Slot15.Out1.OutputMode	Auto = default, unit selects output appropriately based on incoming EDID from the display (HDMI/DVI) HDMI = EDID from sink is ignored and output is forced to HDMI DVI = EDID from sink is ignored and output is forced to DVI
ColourScale	Slot<n>.Out<n>.ColourScale	ColourScale	Slot15.Out1.ColourScale = Auto !Done Slot15.Out1.ColourScale	Get or set the color scale to use on this output.
GenlockSource	Slot<n>.Out<n>.GenlockSource	Input	Slot15.Out1.GenlockSource = NULL !Done Slot15.Out1.GenlockSource	Get or set the Input to be used as the genlock source for the Output. If no Genlock is to be use then the value is to be NULL.
Genlock	Slot<n>.Out<n>.Genlock	GenlockStatus	Slot15.Out1.Genlock = Off !Done Slot15.Out1.Genlock	Read-only. Get the status of genlock for this output.
HDCP_Active	Slot<n>.Out<n>.HDCP_Active	ActiveOff	Slot15.Out1.HDCP_Active = Off !Done Slot15.Out1.HDCP_Active	Read only. Get the HDCP status of this output.

Property Name	Syntax	Type	Example	Description
HDCP_Downstream	Slot<n>.Out<n>.HDCP_Downstream	HDCPDownstream	Slot15.Out1.HDCP_Downstream = HoldOn !Done Slot15.Out1.HDCP_Downstream	Get or set the downstream HDCP mode.
HDMI	Slot<n>.Out<n>.HDMI	FoundNot	Slot15.Out1.HDMI = Found !Done Slot15.Out1.HDMI	Read-only. Get the detected HDMI status.
Layout	Slot<n>.Out<n>.Layout	Layout	Slot15.Out1.Layout = NULL !Done Slot15.Out1.Layout	Get or set the layout to which this output is assigned
WidthInLayout	Slot<n>.Out<n>.WidthInLayout	Integer	Slot15.Out1.WidthInLayout = 1024 !Done Slot15.Out1.WidthInLayout	Get or set the width of this output within the layout
HeightInLayout	Slot<n>.Out<n>.HeightInLayout	Integer	Slot15.Out1.HeightInLayout = 768 !Done Slot15.Out1.HeightInLayout = 768	Get or set the height of this output within the layout
LayoutXCentre	Slot<n>.Out<n>.LayoutXCentre	Integer	Slot15.Out1.HeightInLayout = 768 !Done Slot15.Out1.HeightInLayout	Get or set the centre X coordinate of this output
LayoutYCentre	Slot<n>.Out<n>.LayoutYCentre	Integer	Slot15.Out1.LayoutYCentre = 0 !Done Slot15.Out1.LayoutYCentre	Get or set the centre Y coordinate of this output
RotateOutDeg	Slot<n>.Out<n>.RotateOutDeg	Degree	Slot15.Out1.RotateOutDeg = 0 !Done Slot15.Out1.RotateOutDeg	Get or set the degree of rotation of this output. From 0 to 359
GammaRed	Slot<n>.Out<n>.GammaRed	Number	Slot15.Out1.GammaRed = 1 !Done Slot15.Out1.GammaRed	Get or set the red gamma value for this output Range: 0.30 to 2.00
GammaGreen	Slot<n>.Out<n>.GammaGreen	Number	Slot15.Out1.GammaGreen = 1 !Done Slot15.Out1.GammaGreen	Get or set the green gamma value for this output Range: 0.30 to 2.00
GammaBlue	Slot<n>.Out<n>.GammaBlue	Number	Slot15.Out1.GammaBlue = 1 !Done Slot15.Out1.GammaBlue	Get or set the blue gamma value for this output Range: 0.30 to 2.00
SCurve	Slot<n>.Out<n>.SCurve	Number	Slot15.Out1.SCurve = 1 !Done Slot15.Out1.SCurve	Get or set the SCurve value for this output. (brightness curve) Range: 0.30 to 2.00
EdgeBlend_Mode	Slot<n>.Out<n>.EdgeBlend_Mode	Boolean	Slot15.Out1.EdgeBlend_Mode = Off !Done Slot15.Out1.EdgeBlend_Mode	Get or set the addition of a border to this output to aid with edge blending.

Property Name	Syntax	Type	Example	Description
OuterGrid	Slot<n>.Out<n>.OuterGrid	Boolean	Slot15.Out1.OuterGrid = Off !Done Slot15.Out1.OuterGrid	Get or set if an alignment grid is shown on this output. The DisplayType must be set to Projector.
LeftOverlap	Slot<n>.Out<n>.LeftOverlap	Integer	Slot15.Out1.LeftOverlap = 80 !Done Slot15.Out1.LeftOverlap	Used in Edge Blending. Values are worked out by the GUI and depend on the physical projector position.
RightOverlap	Slot<n>.Out<n>.RightOverlap	Integer	Slot15.Out1.RightOverlap = 80 !Done Slot15.Out1.RightOverlap	
TopOverlap	Slot<n>.Out<n>.TopOverlap	Integer	Slot15.Out1.TopOverlap = 80 !Done Slot15.Out1.TopOverlap	
BottomOverlap	Slot<n>.Out<n>.BottomOverlap	Integer	Slot15.Out1.BottomOverlap = 80 !Done Slot15.Out1.BottomOverlap	
LeftEBPos	Slot<n>.Out<n>.LeftEBPos	Integer	Slot15.Out1.LeftEBPos = -511 !Done Slot15.Out1.LeftEBPos	
RightEBPos	Slot<n>.Out<n>.RightEBPos	Integer	Slot15.Out1.RightEBPos = 511 !Done Slot15.Out1.RightEBPos	
TopEBPos	Slot<n>.Out<n>.TopEBPos	Integer	Slot15.Out1.TopEBPos = -383 !Done Slot15.Out1.TopEBPos	
BottomEBPos	Slot<n>.Out<n>.BottomEBPos	Integer	Slot15.Out1.BottomEBPos = 383 !Done Slot15.Out1.BottomEBPos	
Centre_BB	Slot<n>.Out<n>.Centre_BB	Integer	Slot15.Out1.Centre_BB = 0 !Done Slot15.Out1.Centre_BB	
Left_BB	Slot<n>.Out<n>.Left_BB	Integer	Slot15.Out1.Left_BB = 0 !Done Slot15.Out1.Left_BB	
Right_BB	Slot<n>.Out<n>.Right_BB	Integer	Slot15.Out1.Right_BB = 0 !Done Slot15.Out1.Right_BB	
Top_BB	Slot<n>.Out<n>.Top_BB	Integer	Slot15.Out1.Top_BB = 0 !Done Slot15.Out1.Top_BB	
Bottom_BB	Slot<n>.Out<n>.Bottom_BB	Integer	Slot15.Out1.Bottom_BB = 0 !Done Slot15.Out1.Bottom_BB	

Property Name	Syntax	Type	Example	Description
EDID_Filename	Slot<n>.Out<n>.EDID_Filename	String	Slot15.Out1.EDID_Filename = !Done Slot15.Out1.EDID_Filename	Get or set the EDID file in any currently being used for this output.
Equipment	Slot<n>.Out<n>.Equipment	String	Slot15.Out1.Equipment = !Done Slot15.Out1.Equipment	Get or set the equipment connected to this input.
PhysicalCenterX	Slot<n>.Out<n>.PhysicalCenterX	Integer	Slot15.Out1.PhysicalCenterX = 0 !Done Slot15.Out1.PhysicalCenterX	Get or set the center of the display in microns.
PhysicalCenterY	Slot<n>.Out<n>.PhysicalCenterY	Integer	Slot15.Out1.PhysicalCenterY = 0 !Done Slot15.Out1.PhysicalCenterY	Get or set the center of the display as a pixel location (in vertical axis)
PhysicalWidth	Slot<n>.Out<n>.PhysicalWidth	Integer	Slot15.Out1.PhysicalWidth = 0 !Done Slot15.Out1.PhysicalWidth	Get or set the width of the display in microns.
PhysicalHeight	Slot<n>.Out<n>.PhysicalHeight	Integer	Slot15.Out1.PhysicalHeight = 0 !Done Slot15.Out1.PhysicalHeight	Get or set the height of the display in microns.
PhysicalPixelWidth	Slot<n>.Out<n>.PhysicalPixelWidth	Integer	Slot15.Out1.PhysicalPixelWidth = 0 !Done Slot15.Out1.PhysicalPixelWidth	Get or set the width of a pixel on the display in microns.
PhysicalPixelHeight	Slot<n>.Out<n>.PhysicalPixelHeight	Integer	Slot15.Out1.PhysicalPixelHeight = 0 !Done Slot15.Out1.PhysicalPixelHeight	Defines the height of a pixel on the display in microns.
PhysicalBezelTop	Slot<n>.Out<n>.PhysicalBezelTop	Integer	Slot15.Out1.PhysicalBezelTop = 0 !Done Slot15.Out1.PhysicalBezelTop	Defines the size of the top bezel in microns.
PhysicalBezelBottom	Slot<n>.Out<n>.PhysicalBezelBottom	Integer	Slot15.Out1.PhysicalBezelBottom = 0 !Done Slot15.Out1.PhysicalBezelBottom	Defines the size of the bottom bezel in microns
PhysicalBezelLeft	Slot<n>.Out<n>.PhysicalBezelLeft	Integer	Slot15.Out1.PhysicalBezelLeft = 0 !Done Slot15.Out1.PhysicalBezelLeft	Defines the size of the left bezel in microns
PhysicalBezelRight	Slot<n>.Out<n>.PhysicalBezelRight	Integer	Slot15.Out1.PhysicalBezelRight = 0 !Done Slot15.Out1.PhysicalBezelRight	Defines the size of the right bezel in microns
CutToBlack	Slot<n>.Out<n>.CutToBlack	Boolean	Slot15.Out1.CutToBlack = Off !Done Slot15.Out1.CutToBlack	Get or set the output to black. When setting multiple outputs to black it is recommended to surround them with startbatch() endbatch() to synchronise output blanking



Property Name	Syntax	Type	Example	Description
FramelockSource	Slot<n>.Out<n>.FramelockSource	Input	Slot15.Out1.FramelockSource = NULL !Done Slot15.Out1.FramelockSource	Get or set the source to use for Frame-lock.
FramelockEnable	Slot<n>.Out<n>.FramelockEnable	Boolean	Slot15.Out1.FramelockEnable = Off !Done Slot15.Out1.FramelockEnable	Get or set to use Frame-lock.
FramelockStatus	Slot<n>.Out<n>.FramelockStatus	FramelockStatus	Slot15.Out1.FramelockStatus = Unlocked !Done Slot15.Out1.FramelockStatus	Read only. Get if this output is locked to the Frame-lock source.
DriveStrengthBoost	Slot<n>.Out<n>.DriveStrengthBoost	Integer	Slot15.Out1.DriveStrengthBoost = 0 !Done Slot15.Out1.DriveStrengthBoost	Can be used to adjust the drive strength of the TMDS drivers. Value is in the range -127 to +127, defaults to 0.
Resolutions	Slot<n>	List	Slot15.Resolutions.Resolution1 = <...> Slot15.Resolutions.Resolution2 = <...> ... Slot15.Resolutions.Resolution1000 = <...> Slot15.Resolutions.Resolution1001 = <...> Slot15.Resolutions.Resolution1002 = <...> Slot15.Resolutions.Resolution1003 = <...> Slot15.Resolutions.Resolution1004 = <...> Slot15.Resolutions.Resolution1005 = <...> Slot15.Resolutions.Resolution1006 = <...> Slot15.Resolutions.Resolution1007 = <...> Slot15.Resolutions.Resolution1008 = <...> Slot15.Resolutions.Resolution1009 = <...> !Done Slot15.Resolutions	List the properties for a Resolution. Where <n> is the number of the Resolution. Note that Resolution1000 to Resolution1009 are Custom Resolutions.
Resolution<n>	Slot<n>.Resolutions.Resolution<n>	List	Slot15.Resolutions.Resolution1.Name = 640x480p60 Slot15.Resolutions.Resolution1.Aspect = 4:3 Slot15.Resolutions.Resolution1.CanFramelock = No !Done Slot15.Resolutions.Resolution1	List the properties of the selected resolution.

Property Name	Syntax	Type	Example	Description
Name	Slot<n>.Resolutions.Resolution<n>.Name	String	Slot15.Resolutions.Resolution1.Name = 640x480p60 !Done Slot15.Resolutions.Resolution1.Name	Read only. Get the name of this resolution.
Aspect	Slot<n>.Resolutions.Resolution<n>.Aspect	AspectRatio	Slot15.Resolutions.Resolution1.Aspect = 4:3 !Done Slot15.Resolutions.Resolution1.Aspect	Read only. Get or set the aspect ratio of this resolution Used assist in the signal conversion when an input and the output have different aspect ratio.
CanFramelock	Slot<n>.Resolutions.Resolution<n>.CanFramelock	Boolean	Slot15.Resolutions.Resolution1.CanFramelock = No !Done Slot15.Resolutions.Resolution1.CanFramelock	Read only. Get if the Resolution is compatible with Framelock.
AudioEnable	Slot10.Out1.AudioEnable	Boolean	Slot10.Out1.AudioEnable = On !Done Slot10.Out1.AudioEnable	Enable the embedded audio on a specific output, independent of canvas On : Off Default; On
AudioMode	Slot10.Out1.AudioMode	String	Slot10.Out1.AudioMode = FromSource !Done Slot10.Out1.AudioMode	Read only, set via canvas menu
AudioFollowWindow	Slot10.Out1.AudioFollowWindow	Integer	Slot10.Out1.AudioFollowWindow = 1 !Done Slot10.Out1.AudioFollowWindow	Read only, set via canvas menu
AudioSource	Slot10.Out1.AudioSource	String	Slot10.Out1.AudioSource = NULL !Done Slot10.Out1.AudioSource	Read only, set via canvas menu
.AudioVolume	Slot10.Out1.AudioVolume	Integer	Slot10.Out1.AudioVolume = 100 !Done Slot10.Out1.AudioVolume	Read only, set via canvas menu
AudioMute	Slot10.Out1.AudioMute	Boolean	Slot10.Out1.AudioMute = Off !Done Slot10.Out1.AudioMute	Mute the embedded audio on a specific output, independent of canvas On : Off Default; Off

## Methods

Command	Syntax	Type	Example	Description
PhaseRetrain	Slot<n>.PhaseRetrain()	void	// Module 15 phase -----R:::R---, centres at 23, 23 (23). !Done Slot15.PhaseRetrain()	Initiates a Phase retrain for this slot
Module_Resolutions	Slot<n>.Module_Resolutions()	List	Slot15.Module_Resolutions() 720x480i59.94;4:3; 720x480p59.94;4:3; : 3840x2160p30;16:9; 3840x600p50;16:9; Empty1001;16:9; Empty1002;16:9; Empty1003;16:9; Empty1004;16:9; Empty1005;16:9; Empty1006;16:9; Empty1007;16:9; Empty1008;16:9; Empty1009;16:9; !Done Slot15.Module_Resolutions()	List all of the supported resolutions for this slot. Custom resolutions will appear at the end of the list. The list is semicolon separated.
ForceLinkRefresh	Slot<n>.Out<n>.ForceLinkRefresh()	Void	Slot15.Out1.ForceLinkRefresh() !Done Slot15.Out1.ForceLinkRefresh()	Reset the connection to the display.

## Events

Category	Syntax	Event	Example	Description
HDMI	SINK_ATTACHED,<output>	SINK_ATTACHED	!Event HDMI,SINK_ATTACHED,s3.o1	Raised when an HDMI connection is attached to an output
HDMI	SINK_UNPLUGGED,<output>	SINK_UNPLUGGED	!Event HDMI,SINK_UNPLUGGED,s3.o1	Raised when an HDMI connection is unplugged from an output

Category	Syntax	Event	Example	Description
SYSTEM	UPDATE_STATUS	UPDATE_STATUS,<status>	!Event UPDATE_STATUS,Updating	Status of modules which update after the system has rebooted. Only applies to the Streaming media and 4k playback module at present. Status values are Booting, Updating, Ready, UpdateFailed.
OUTPUT	AUDIO_FOLLOW_WINDOW_CHANGED	AUDIO_FOLLOW_WINDOW_CHANGE D,<output>, <Window Source>	!Event OUTPUT,AUDIO_FOLLOW_WINDOW_CHANGE D,Slot4.Out1,Window5	CORIOmaster micro only Raised when a window being used to source the audio playing on the identified output is changed to another window.
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,AudioEnable,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioEnable,Off	Raised when the AudioEnable on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,AudioMute,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,AudioMute,On	Raised when the AudioMute on a specific output is changed. On   Off
OUTPUT	PROPERTY_CHANGED	PROPERTY_CHANGED,<output>,CutToBlack,<value>	!Event OUTPUT,PROPERTY_CHANGED,Slot16.Out1,CutToBlack,On	Raised when the CutToBlack on a specific output is changed. On   Off

Category	Syntax	Event	Example	Description
OUTPUT	STATUS_GROUP	STATUS_GROUP,<output>,<property>,<value>	! Event OUTPUT, STATUS_GROUP,Slot16.Out1,HDCP_Active,Active	Raised when an output property is changed. Properties; HDCP_Active; Active   Off HDMI; Found   Not_Found FramelockStatus; Locked   Unlocked Genlock; Off   Locked

## Audio Module (CM-AUD-2IN-4OUT)

For use with CORIOmaster only.

This section covers the following modules:

AX74 2x In, 4x Out Audio module

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n> and Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot18.Cardtype = Audio 2-in 4-out Slot18.Carddata = <No Value> Slot18.In1 = <...> Slot18.In2 = <...> Slot18.Out1 = <...> Slot18.Out2 = <...> Slot18.Out3 = <...> Slot18.Out4 = <...> !Done Slot18	List the properties of the card in this slot or "NO CARD" if the slot is empty.  CM-AUD-2IN-4OUT supported in Slot18 of C3-540, slot 4 of C3-510
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot18.Cardtype = Audio 2-in 4-out !Done Slot18.Cardtype	Read-only. Get the type of the card in this slot.
Carddata	Slot<n>.Carddata	void	slot18.Carddata = <No Value> ! Done Slot18.Carddata	Not supported
In<n>	Slot<n>.In<n>	List	Slot18.In1.FullName = In1 Slot18.In1.Status = OK Slot18.In1.Alias = s18i1 Slot18.In1.AudioLevel = 0 Slot18.In1.AudioMute = Off Slot18.In1.AudioEnable = On	List the properties for an Input on this Slot. Where In<n> is the input on the card, 0   1

Property Name	Syntax	Type	Example	Description
FullName	Slot<n>.In<n>.FullName	String	Slot18.In1.FullName = In1 !Done Slot18.In1.FullName	Read-only. Get the full name of the Audio Channel
Status	Slot<n>.In<n>.Status	String	Slot18.In1.Status = OK !Done Slot18. Status	Read-only. Get the status of the input.
Alias	Slot<n>.In<n>.Alias	String	Slot18.In1.Alias = s18i1 !Done Slot18. Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
AudioLevel	Slot<n>.In<n>.AudioLevel	Integer	Slot18.In1.AudioLevel = 0 !Done Slot18. AudioLevel	Get or set the input audio level (in dB -20 to +20) (increments of 1) Default; 0
AudioMute	Slot<n>.In<n>.AudioMute	Boolean	Slot18.In1.AudioMute = Off !Done Slot18. AudioMute	Mute the input On : Off Default; Off
AudioEnable	Slot<n>.In<n>.AudioEnable	Boolean	Slot18.In1.AudioEnable = On !Done Slot18. AudioEnable	Enable the input On : Off Default; On
Out<n>	Slot<n>.Out<n>	List	Slot18.Out1.FullName = Out1 Slot18.Out1.Status = UNKNOWN Slot18.Out1.Alias = s18o1 Slot18.Out1.Layout = Layout1 Slot18.Out1.AudioEnable = On Slot18.Out1.AudioMode = FromSource Slot18.Out1.AudioFollowWindow = 0 Slot18.Out1.AudioSource = NULL Slot18.Out1.AudioVolume = 100 Slot18.Out1.AudioMute = Off !Done Slot18.Out1	List the properties for an Output on this Slot. Where Out<n> is the output on the card, 0 - 1
FullName	Slot<n>.Out<n>.FullName	String	Slot18.Out1.FullName = Out1 !Done Slot18.Out1.FullName	Read-only. Get the full name of the Audio Channel

Property Name	Syntax	Type	Example	Description
Status	Slot<n>.Out<n>.Status	String	Slot18.Out1.Status = UNKNOWN !Done Slot18.Out1.Status	Read-only. Get the status of the input. Always UNKNOWN for this card.
Alias	Slot<n>.Out<n>.Alias	String	Slot18.Out1.Alias = s18o1 !Done Slot18.Out1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
Layout	Slot<n>.Out<n>.Layout	String	Slot18.Out1.Layout = Layout1 !Done Slot18.Out1.Layout	Read only value to help understand which Canvas/Layout is associated with which output
AudioEnable	Slot<n>.Out<n>.AudioEnable	Boolean	Slot18.Out1.AudioEnable = On !Done Slot18.Out1.AudioEnable	Enable the embedded audio on a specific output, independent of canvas On : Off Default; On
AudioMode	Slot<n>.Out<n>.AudioMode	String	Slot18.Out1.AudioMode = FromSource !Done Slot18.Out1.AudioMode	Read only, set via canvas menu
AudioFollowWindow	Slot<n>.Out<n>.AudioFollowWindow	Integer	Slot18.Out1.AudioFollowWindow = 0 !Done Slot18.Out1.AudioFollowWindow	Read only, set via canvas menu
AudioSource	Slot<n>.Out<n>.AudioSource	String	Slot18.Out1.AudioSource = NULL !Done Slot18.Out1.AudioSource	Read only, set via canvas menu
AudioVolume	Slot<n>.Out<n>.AudioVolume	Integer	Slot18.Out1.AudioVolume = 100 !Done Slot18.Out1.AudioVolume	Read only, set via canvas menu
AudioMute	Slot<n>.Out<n>.AudioMute	Boolean	Slot18.Out1.AudioMute = Off !Done Slot18.Out1.AudioMute	Mute the audio on a specific output, independent of canvas On : Off Default; Off



## HDBASE-T Sub-Menu

This section covers the following modules:

AK44 HDBaseT scaled 2 output module (See HDBASE-T Output Module)

AK67 HDBaseT 2 input Module (see HDMI Input Module)

For output cards it is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

For Input cards it is possible to use Slot<n>.In<n> and S<n>I<n> in place of Slots.Slot<n>.In<n>.

Command	Syntax	Type	Example	Description
HDBaseT	Slot<n>.Out<n>.HDBaseT Slot<n>.In<n>.HDBaseT	List	Slot15.Out1.HDBaseT.CurrentMode = Auto Standard mode Slot15.Out1.HDBaseT.LocalLinkStatus = HDBASE_T_LINK_ON Slot15.Out1.HDBaseT.LocalFwVer = 1.30.37.10 Slot15.Out1.HDBaseT.CableLength = Invalid Slot15.Out1.HDBaseT.LocalHDMIStatus = HDBASE_T_HDMI_HDCP_ON Slot15.Out1.HDBaseT.MaxError = Caution: 1 : 0 : 0 : 0 Slot15.Out1.HDBaseT.RemoteFWVer = 1.30.4.0 Slot15.Out1.HDBaseT.RemoteLinkStatus = HDBASE_T_LINK_ON Slot15.Out1.HDBaseT.RemoteHDMIStatus = HDBASE_T_HDMI_HDCP_ON Slot15.Out1.HDBaseT.LocalLinkReset() Slot15.Out1.HDBaseT.RemoteLinkReset() !Done Slot15.Out1.HDBaseT	List the HDBaseT specific attributes for this card.

Command	Syntax	Type	Example	Description
CurrentMode	Slot<n>.Out<n>.HDBaseTCu rrentMode Slot<n>.In<n>.HDBaseTCurr entMode	HDBaseTSt atus	Slot15.Out1.HDBaseT.CurrentMode = Auto Standard mode !Done Slot15.Out1.HDBaseT.CurrentMode	Read only. Get the current HTBaseT status. This comprises of the current configuration and mode.
LocalLinkStatus	Slot<n>.Out<n>.HDBaseTLo calLinkStatus Slot<n>.In<n>.HDBaseTLoc alLinkStatus	HDBaseTLi nk	Slot15.Out1.HDBaseT.LocalLinkStatus = HDBASE_T_LINK_ON !Done Slot15.Out1.HDBaseT.LocalLinkStatus	Read only. Get the status of the local end of the link.
LocalFwVer	Slot<n>.Out<n>.HDBaseTLo calFwVer Slot<n>.In<n>.HDBaseTLoc alFwVer	String	Slot15.Out1.HDBaseT.LocalFwVer = 1.30.37.10 !Done Slot15.Out1.HDBaseT.LocalFwVer	Read only. Get the version of the HDBaseT firmware in the card.
CableLength	Slot<n>.Out<n>.HDBaseTCa bleLength Slot<n>.In<n>.HDBaseTCabl eLength	String	Slot15.Out1.HDBaseT.CableLength = Invalid !Done Slot15.Out1.HDBaseT.CableLength	Read only. Get the link cable length in meters as measured by the card. This may be "Invalid" or a value between 20 and 100. "Invalid," a value outside the range or significantly different from that of the physical cable may indicate a cabling issue.
LocalHDMIStatus	Slot<n>.Out<n>.HDBaseTLo calHDMIStatus Slot<n>.In<n>.HDBaseTLoc alHDMIStatus	HDBaseTH DMI	Slot15.Out1.HDBaseT.LocalHDMIStatus = HDBASE_T_HDMI_HDCP_ON !Done Slot15.Out1.HDBaseT.LocalHDMIStatus	Read only. Get the status of the video connection at the local end of the link.
MaxError	Slot<n>.Out<n>.HDBaseTM axError Slot<n>.In<n>.HDBaseTMax Error	HDBaseTEr ror	Slot15.Out1.HDBaseT.MaxError = Caution: 255 : 255 : 255 : 255 !Done Slot15.Out1.HDBaseT.MaxError	Read only. Get the error statistics.

Command	Syntax	Type	Example	Description
RemoteFWVer	Slot<n>.Out<n>.HDBaseTRemoteFWVer Slot<n>.In<n>.HDBaseTRemoteFWVer	String	Slot15.Out1.HDBaseT.RemoteFWVer = 1.30.4.0 !Done Slot15.Out1.HDBaseT.RemoteFWVer	Read only. Get the version of the HDBaseT firmware in the remote device.
RemoteLinkStatus	Slot<n>.Out<n>.HDBaseTRemoteLinkStatus Slot<n>.In<n>.HDBaseTRemoteLinkStatus	HDBaseTLink	Slot15.Out1.HDBaseT.RemoteLinkStatus = HDBASE_T_LINK_ON !Done Slot15.Out1.HDBaseT.RemoteLinkStatus	Read only. Get the status of the remote end of the link.
RemoteHDMIStatus	Slot<n>.Out<n>.HDBaseTRemoteHDMIStatus Slot<n>.In<n>.HDBaseTRemoteHDMIStatus	HDBaseTHDMI	Slot15.Out1.HDBaseT.RemoteHDMIStatus = HDBASE_T_HDMI_HDCP_ON !Done Slot15.Out1.HDBaseT.RemoteHDMIStatus	Read only. Get the status of the video connection at the remote end of the link.
LocalLinkReset	Slot<n>.Out<n>.HDBaseT.LocalLinkReset() Slot<n>.In<n>.HDBaseT.LocalLinkReset()	Void	Slot15.Out1.HDBaseT.LocalLinkReset() !Done Slot15.Out1.HDBaseT.LocalLinkReset()	Reset the local end of the link.
RemoteLinkReset()	Slot<n>.Out<n>.HDBaseT.RemoteLinkReset() Slot<n>.In<n>.HDBaseT.RemoteLinkReset()	Void	Slot15.Out1.HDBaseT.RemoteLinkReset() !Done Slot15.Out1.HDBaseT.RemoteLinkReset()	Reset the remote end of the link.
SetMode	Slot<n>.Out<n>. SetMode Slot<n>.In<n>.HDBaseT.SetMode	String	Slot<n>.Out<n>. SetMode = Auto !Done s2i1.hdbaset.SetMode = Auto	Manually get and set the HDBASE-T link mode. Allowed values: Auto, LongReach, Standard. Note1: Use with caution - will only work if the device at the other end of the link is in Auto mode. Note 2: Manually set value may disagree with CurrentMode (qv). This is a function of Valens FW.

## Audio S/PDIF Fixed Output

For use with CORIOmaster only.

This section covers the fixed audio output available on the S/PDIF output on a CORIOmaster micro only. This will always be on Slot 4 for a single CORIOmaster micro.

It is possible to use Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n> and Slot<n>.Out<n> and S<n>O<n> in place of Slots.Slot<n>.Out<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Slot<n>	Slot<n>	List	Slot4.Cardtype = Audio 1-out Slot4.Carddata = <...> Slot4.In1 = <...> Slot4.Out1 = <...> !Done Slot4	List the properties of the S/PDIF audio output.
Cardtype	Slot<n>.Cardtype	CardTypeEnum	Slot4.Cardtype = Audio 1-out !Done Slot1.Cardtype	Read-only. Get the type of this audio output
FullName	Slot<n>.In<n>.FullName	String	Slot4.In1.FullName = In1 !Done Slot4.In1.FullName	Read-only. Get the full name of the Window
Alias	Slot<n>.In<n>.Alias	String	Slot4.In1.Alias = s4i1 !Done Slot4.In1.Alias	Get or set the Alias name for this input. <b>Warning it is possible to set this value to that used by another input, in which case the other value will be set to NULL.</b>
AudInA	Slot<n>.In<n>.AudInA	String	Slot4.In4.AudInA = NULL !Done Slot4.In1.AudInA	Get/set the value of the current audio routing window

Property Name	Syntax	Type	Example	Description
AudioLevel	Slot<n>.In<n>.AudioLevel	Integer	Slot4.In1.AudioLevel = 0 !Done Slot4.In1.AudioLevel	Get/set the value of the current audio level, persistent over a power cycle. Value is in steps of 1dB from -20 to +20. Default is 0.
AudioMute	Slot<n>.In<n>.AudioMute	Enum	Slot4.In1. AudioMute = Off !Done Slot4.In1. AudioMute	Get/set the whether audio is muted from this input, persists over power cycle. On – audio is muted Off – audio is NOT muted
Out<n>	Slot<n>.Out<n>	List	Slot4.Out1.FullName = Out1 Slot4.Out1.Alias = s4o1 Slot4.Out1.Mute = Off Slot4.Out1.AudioFollowWindow = 1 !Done Slot4.Out1	List the properties for the S/PDIF output.
FullName	Slot<n>.Out<n>.FullName	String	Slot4.Out1.FullName = Out1 !Done Slot4.Out1.FullName	Read-only. Get the full name of the Window
Alias	Slot<n>.Out<n>.Alias	String	Slot4.Out1.Alias = s4o1 !Done Slot4.Out1.Alias	Get or set the Alias name for this output. <b>Warning it is possible to set this value to that used by another output, in which case the other value will be set to NULL.</b>
Mute	Slot<n>.Out<n>.Mute	Enum	Slot4.Out1.Mute = Off !Done Slot4.Out1.Mute	Get/set the whether audio is muted on the S/PDIF output, persists over power cycle. On – audio is muted Off – audio is NOT muted (default)
AudioFollowWindow	Slot<n>.Out<n>.AudioFollowWindow	Integer	Slot4.Out1. AudioFollowWindow = 1 !Done Slot4.Out1. AudioFollowWindow	Get/set the audio routing window number

## Routing Commands

### Properties

Command	Syntax	Type	Example	Description
Routing	Routing	List	<pre> Routing.Windows = &lt;...&gt; Routing.Canvases = &lt;...&gt; Routing.Layouts = &lt;...&gt; Routing.MonitorViews = &lt;...&gt; Routing.Preset = &lt;...&gt; Routing.Stbds = &lt;...&gt; !Done Routing </pre>	List the routing commands and properties

## Window Commands

### For use with CORIOmaster only

In Window<n> the "<n>" represents the number of the Window (for example "1" for Window1).

It is possible to use either Window<n> or Windows.Window<n> in place of Routing.Windows.Window<n>.

### Properties

Command	Syntax	Type	Example	Description
Windows	Windows	List	Windows.Window1 = <...> Windows.Window2 = <...> ... !Done Windows	List all of the Windows.
Window<n>	Window<n>	List	Window1.FullName = Window1 Window1.Status = FREE Window1.Alias = NULL Window1.Input = Slot3.In1 Window1.Canvas = Canvas1 Window1.CanWidth = 1280 Window1.CanHeight = 720 Window1.CanXCentre = 689 Window1.CanYCentre = 0 Window1.Zorder = 1 Window1.RotateDeg = 0 Window1.WDP = 0 Window1.WDPQ = 2048 Window1.BdrPixWidth = 1 Window1.BdrRGB = 0 Window1.HFlip = Off Window1.VFlip = Off Window1.FTB = 0 Window1.SCFTB = Off	List all of the properties of this Window.

Command	Syntax	Type	Example	Description
			Window1.SCHShrink = Off Window1.SCVShrink = Off Window1.SCSpin = 0 Window1.AccountForBezel = No Window1.PhysicalCenterX = 547800 Window1.PhysicalCenterY = 0 Window1.PhysicalWidth = 1018300 Window1.PhysicalHeight = 572800 !Done Window1	
FullName	Window<n>.FullName	String	Window1.FullName = Window1 !Done Window1.FullName	Read-only. Get the full name of the Window
Alias	Window<n>.Alias	String	Window1.Alias = DVDplayer !Done Window1.Alias	Get or set the Alias name for this Window
Input	Window<n>.Input	InputName	Window1.Input = Slot3.In1 !Done Window1.Input	Get or set the Input assigned to this Window <b>This must <b>NOT</b> be set to NULL. The behaviour is undefined if this value is set to NULL.</b>
Canvas	Window<n>.Canvas	List	Window1.Canvas = Canvas1 !Done Window1.Canvas	Get or set the canvases to which this Window is assigned. Set to NULL to remove from all canvas. The list is comma delimited
CanWidth	Window<n>.CanWidth	Integer	Window1.CanWidth = 1280 !Done Window1.CanWidth	Get or set the width of the Window. 14-bit unsigned integer.
CanHeight	Window<n>.CanHeight	Integer	Window1.CanHeight = 720 !Done Window1.CanHeight	Get or set the height of the Window. 14-bit unsigned integer.
CanXCentre	Window<n>.CanXCentre	Integer	Window1.CanXCentre = 689 !Done Window1.CanXCentre	Get or set the X co-ordinated of the centre of the Window. 14-bit signed integer.



Command	Syntax	Type	Example	Description
CanYCentre	Window<n>.CanYCenter	Integer	Window1.CanYCentre = 0 !Done Window1.CanYCentre	Get or set the Y co-ordinated of the centre of the Window. 14-bit signed integer.
Zorder	Window<n>.Zorder	Integer	Window1.Zorder = 1 !Done Window1.Zorder	Get or set the depth of the Window within the canvas. 4-bit unsigned.
RotateDeg	Window<n>.RotateDeg	Integer	Window1.RotateDeg = 0 !Done Window1.RotateDeg	Get or set the degree of rotation for the Window. 0 to 359.
WDPQ	Window<n>.WDPQ	Integer	Window1.WDPQ = 2048 !Done Window1.WDPQ	Get or set the window quality for the window. 0 = Preview 1024 = HQ 2048 = EHQ 4096 = UHQ
BdrPixwidth	Window<n>.BdrPixWidth	Integer	Window1.BdrPixWidth = 1 !Done Window1.BdrPixWidth	Get or set the width of the border. 0 to 64 Note that Setting this to 0 will degrade image quality when rotated
BdrRGB	Window<n>.BdrRGB	Integer	Window1.BdrRGB = 0 !Done Window1.BdrRGB	Get or set the colour of the border using RGB represented as a integer.
HFlip	Window<n>.HFlip	Boolean	Window1.HFlip = Off !Done Window1.HFlip	Get or set if the Window is inverted horizontally.
VFlip	Window<n>.VFlip	Boolean	Window1.VFlip = Off !Done Window1.VFlip	Get or set if the Window is inverted vertically.
FTB	Window<n>.FTB	Integer	Window1.FTB = 0 !Done Window1.FTB	Get or set the brightness for this Window. The range is 0 to 256 with 0 being full brightness and 256 being black.
SCFTB	Window<n>.SCFTB	Boolean	Window1.SCFTB = Off !Done Window1.SCFTB	Get or set the Fade Through Black animation property for this Window.
SCHShrink	Window<n>.SCHShrink	Boolean	Window1.SCHShrink = Off !Done Window1.SCHShrink	Get or set the Horizontal Shrink animation property for this Window.

Command	Syntax	Type	Example	Description
SCVShrink	Window<n>.SCVShrink	Boolean	Window1.SCVShrink = Off !Done Window1.SCVShrink	Get or set the Vertical Shrink animation property for this Window.
SCSpin	Window<n>.SCSpin	Boolean	Window1.SCSpin = 0 !Done Window1.SCSpin	Get or set the Spin animation property for this Window. The range is -7 to 7 with 0 being off, negative numbers are for anti-clockwise and positive numbers for clockwise spins.
AccountForBezel	Window<n>.AccountForBezel	Boolean	Window1.AccountForBezel = No !Done Window1.AccountForBezel	Get or set if the "Account for Bezel" option is enabled.
PhysicalCenterX	Window<n>.PhysicalCenterX	Integer	Window1.PhysicalCenterX = 547800 !Done Window1.PhysicalCenterX	Numerical value for window placement within CORIOgrapher software.
PhysicalCenterY	Window<n>.PhysicalCenterY	Integer	Window1.PhysicalCenterY = 0 !Done Window1.PhysicalCenterY	Numerical value for window placement within CORIOgrapher software.
PhysicalWidth	Window<n>.PhysicalWidth	Integer	Window1.PhysicalWidth = 1018300 !Done Window1.PhysicalWidth	Numerical value for window placement within CORIOgrapher software.
PhysicalHeight	Window<n>.PhysicalHeight	Integer	Window1.PhysicalHeight = 572800 !Done Window1.PhysicalHeight	Numerical value for window placement within CORIOgrapher software.

## Events

Category	Syntax	Event	Example	Description
WINDOW	INPUT,<window>,<input>	INPUT	!Event WINDOW,INPUT,Window1,Slot5.In1	Triggered when the source to WindowN is changed, report back the new input source.

## Canvases Commands

### For use with CORIOmaster only

In Canvas<n> the “<n>” represents the number of the Canvas (for example “1” for Canvas1).

It is possible to use either Canvas<n> or Canvases.Canvas<n> in place of Routing.Canvases.Canvas<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Canvases	Canvases	List	Canvases.Canvas1 = <...> Canvases.Canvas2 = <...> ... !Done Canvases	List the Canvases.
Canvas<n>	Canvas<n>	List	Canvas1.FullName = Canvas1 Canvas1.Status = FREE Canvas1.Alias = NULL Canvas1.WindowList = Window1,Window2 Canvas1.LayoutList = Layout1 !Done Canvas1	List all of the properties of this Canvas.
FullName	Canvas<n>.FullName	String	Canvas1.FullName = Canvas1 !Done Canvas1.FullName	Read-only. Get the full name for this Canvas.
Alias	Canvas<n>.Alias	String	Canvas1.Alias = NULL !Done Canvas1.Alias	Get or set an alias name for this Canvas.
WindowList	Canvas<n>.WindowList	List	Canvas1.WindowList = Window1,Window2 !Done Canvas1.WindowList	Get or set the list of Windows that are associated with the Canvas
LayoutList	Canvas<n>.LayoutList	List	Canvas1.LayoutList = Layout1 !Done Canvas1.LayoutList	Get or set the list of layouts that the Canvas is assigned to.

Property Name	Syntax	Type	Example	Description
AudioMode	Canvas<n>.AudioMode	String	canvas1.AudioMode = FromSource !Done canvas1.audiomode	Get or set the audio mode for the canvas FromSource – audio source for the canvas is defined by Canvas1.AudioSource FollowWindow – audio source for the canvas is defined by Canvas1.AudioFollowWindow Default; FromSource
AudioFollowWindow	Canvas<n>..AudioFollowWindow	Integer	Canvas1.AudioFollowWindow = 1 !Done Canvas1.AudioFollowWindow=1	Get or set the window ID of the audio being output on the canvas Default; 0
AudioSource	Canvas<n>.AudioSource	String	Canvas1.AudioSource = Slot1.In1 !Done Canvas1.AudioSource	Get or set the audio source of the audio being output on the canvas. Default; NULL
AudioMute	Canvas<n>.AudioMute	String	Canvas1.AudioMute = On	Get or set audio mute for the current canvas. On   Off Default; On
AudioVolume	Canvas<n>.AudioVolume	Integer	Canvas1.AudioVolume = 100 !Done Canvas1.AudioVolume	Get or set the audio volume of the audio being output on the canvas. Range; 0-100 (%) in steps of 1 Default; 100

## Events

Category	Syntax	Event	Example	Description
CANVAS	PROPERTY_CHANGED,<CanvasN>,<property>,<value>	PROPERTY_CHANGED	!Event CANVAS,PROPERTY_CHANGED,Canvas1,AudioMute,On	Canvas output audio mute status; On   Off
CANVAS	PROPERTY_CHANGED,<CanvasN>,<property>,<value>	PROPERTY_CHANGED	!Event CANVAS,PROPERTY_CHANGED,Canvas1,AudioMode,FromSource	Triggers on changes to a canvas' audio source; FollowWindow   FromSource
CANVAS	PROPERTY_CHANGED,<CanvasN>,<property>,<value>	PROPERTY_CHANGED	!Event CANVAS,PROPERTY_CHANGED,Canvas1,AudioFollowWindow,Window1	Triggers on a change to the Window being used for the audio being played out by the canvases when AudioMode=FollowWindow
CANVAS	PROPERTY_CHANGED,<CanvasN>,<property>,<value>	PROPERTY_CHANGED	!Event CANVAS,PROPERTY_CHANGED,Canvas1,AudioSource,Slot1.In1	Triggers on a change to the audio source being used for the audio being played out by the canvases when AudioMode=FromSource
CANVAS	PROPERTY_CHANGED,<CanvasN>,<property>,<value>	PROPERTY_CHANGED	!Event CANVAS,PROPERTY_CHANGED,Canvas1,AudioVolume,50	Triggers on a change to the audio output volume Range 0-100
CANVAS	STBDCURRENT_CHANGED,<CanvasN>,<StbdN>,<value>	STBDCURRENT_CHANGED	!Event CANVAS,STBDCURRENT_CHANGED,Canvas1,Stbd1	Triggers on a change to the current storyboard being used on canvas.

## Layouts Commands

### For use with CORIOmaster only

In Layout<n> the "<n>" represents the number of the Layout (for example "1" for Layout1).

It is possible to use either Layout<n> or Layouts.Layout<n> in place of Routing.Layouts.Layout<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Layouts	Layouts	List	Layouts.Layout1 = <...> Layouts.Layout2 = <...> ... !Done Layouts	List the Layouts.
Layout<n>	Layout<n>	List	Layout1.FullName = Layout1 Layout1.Status = FREE Layout1.Alias = NULL Layout1.Canvas = Canvas1 Layout1.CanWidth4kUnit = 4096 Layout1.CanHeight4kUnit = 4096 Layout1.CanXCentre = 0 Layout1.CanYCentre = 0 Layout1.StbdActive = No Layout1.OutputList = Slot13.Out1,Slot16.Out2 Layout1.Mode = Normal !Done Layout1	List all of the properties of this Layout.
FullName	Layout<n>.FullName	String	Layout1.FullName = Layout1 !Done Layout1.FullName	Read-only. Get the full name for this Layout.
Alias	Layout<n>.Alias	String	Layout1.Alias = NULL !Done Layout1.Alias	Get or set the alias name for this Layout.
Canvas	Layout<n>.Canvas	Canvas	Layout1.Canvas = Canvas1 !Done Layout1.Canvas	Get or set the Canvas the Layout is assigned to.

Property Name	Syntax	Type	Example	Description
CanHeight4kUnit	Layout<n>.CanHeight4kUnit	Integer	Layout1.CanWidth4kUnit = 4096 !Done Layout1.CanWidth4kUnit	Get or set the vertical image sizing value for the canvas. This is in the range -32 to 16383 (the smaller number is the larger image).
CanWidth4kUnit	Layout<n>.CanWidth4kUnit	Integer	Layout1.CanHeight4kUnit = 4096 !Done Layout1.CanHeight4kUnit	Get or set the horizontal image sizing value for the canvas. Range: -32 to 16383 (smaller number is larger image).
CanXCentre	Layout<n>.CanXCentre	Integer	Layout1.CanXCentre = 0 !Done Layout1.CanXCentre	Get or set the vertical centring value for the canvas This is in the range -8191 to 8191 (negative shifts down; positive shifts up).
CanYCentre	Layout<n>.CanYCentre	Integer	Layout1.CanYCentre = 0 !Done Layout1.CanYCentre	Get or set the horizontal centring value for the canvas. This is in the range -8191 to 8191 (negative shifts right; positive shifts left).
StbdActive	Layout<n>.StbdActive	Integer	Layout1.StbdActive = No !Done Layout1.StbdActive	Read only. Get if there is a Storyboard currently animating on this Layout.
OutputList	Layout<n>.OutputList	List	Layout1.OutputList = Slot12.Out1,Slot12.Out2 !Done Layout1.OutputList	Get or set the list of Outputs that are associated with the Layout.

## Storyboard Commands

### For use with CORIOmaster only

In Stbd<n> the "<n>" represents the number of the Storyboard (for example "1" for Stbd1).

It is possible to use either Stbds.Stbd<n> in place of Routing.Stbds.Stbd<n>.

### Properties

Property Name	Syntax	Type	Example	Description
Stbds	Stbds	List	Stbds.Stbd1 = <...> ... Stbds.Stbd50 = <...> !Done Stbds	List the Storyboards.
Stbd<n>	Stbds.Stbd<n>	List	Stbds.Stbd1.Name = start Stbds.Stbd1.Canvas = Canvas1 Stbds.Stbd1.Kfrms = <...> Stbds.Stbd1.Take() Stbds.Stbd1.Save() Stbds.Stbd1.Remove() !Done Stbds.Stbd1	List all of the properties of this Storyboard.
Name	Stbds.Stbd<n>.Name	String	Stbds.Stbd1.Name = start !Done Stbds.Stbd1.Name	Get or set the name for this Storyboard.
Canvas	Stbds.Stbd<n>.Canvas	Canvas	Stbds.Stbd1.Canvas = Canvas1 !Done Stbds.Stbd1.Canvas	Get or set the Canvas the Layout is assigned to.
Kfrms	Stbds.Stbd<n>.Kfrms	List	Stbds.Stbd1.Kfrms.Kfrm1 = (Window1.Input,0,Slot3.In1,Discrete) Stbds.Stbd1.Kfrms.Kfrm2 = (Window1.CanWidth,0,1920,Linear) ... !Done Stbds.Stbd1.Kfrms	Get a list of the Key Frames for this Storyboard.
Kfrm<n>	Stbds.Stbd<n>.Kfrms.Kfrm<n>	KeyFrame	Stbds.Stbd1.Kfrms.Kfrm1 = (Window1.Input,0,Slot3.In1,Discrete) !Done Stbds.Stbd1.Kfrms.Kfrm1	Get or set the attributes of this Key Frame.



## Methods

Command	Syntax	Type	Example	Description
Take	Stbds.Stbd<n>.Take()	Void	Stbds.Stbd1.Take() !Done Stbds.Stbd1.Take()	Execute this Storyboard
Save	Stbds.Stbd<n>.Save()	Void	Stbds.Stbd1.Save() !Done Stbds.Stbd1.Save()	Make this Storyboard persistent. Note it saved to the file system and automatically loaded on power on.
Remove	Stbds.Stbd<n>.Remove()	Void	Stbds.Stbd1.Remove() !Done Stbds.Stbd1.Remove()	Clear this Storyboard.

## Events

Category	Syntax	Event	Example	Description
STBD	ISCURRENT_CHANGED,<stbd N>,<is_current>	ISCURRENT_CHANGED	!Event STBD, ISCURRENT_CHANGED,Stbd1,1	Returns the index of the current storyboard and whether it is active or not.

## Preset Commands

It is possible to use Preset in place of Routing.Preset.

Note: Do not use presets to add and remove windows. If you want to remove a window from your display with a preset, do not delete the window. Instead move the window away from the display, resize the window smaller to reduce the video bandwidth, and set the preset duration to 0 seconds.

### Properties

Property Name	Syntax	Type	Example	Description
Preset	Preset	List	Preset.PresetList() Preset.Take = 1 Preset.Read = 1 Preset.Valid = No Preset.NameRead = start Preset.CanvasRead = NULL Preset.DurationRead = 0 Preset.SeqNumRead = 0 Preset.FlagsRead = 0 Preset.SaveRead() Preset.RestoreRead() Preset.RmvPresetFileRead() Preset.SaveAllPresets() Preset.RestoreAllPresets() Preset.RemovePresetFiles() !Done Preset	List all of the preset properties.
Take	Preset.Take	Integer	Preset.Take = 1 !Done Preset.Take	Get or set the active preset (by ID number: 1-49) This is the equivalent to Preset.Read followed by Preset.RestoreRead.
Read	Preset.Read	Integer	Preset.Read = 1 !Done Preset.Read	Get or set the preset to be edited (by ID number: 1-49)

Property Name	Syntax	Type	Example	Description
Valid	Preset.Valid	Boolean	Preset.Valid = No !Done Preset.Valid	Read-only. Get if the active preset has been saved.
NameRead	Preset.NameRead	String	Preset.NameRead = start !Done Preset.NameRead	Get or set the name of the active preset. The name may be up to 19 alphanumeric characters, no spaces.
CanvasRead	Preset.CanvasRead	String	Preset.CanvasRead = NULL !Done Preset.CanvasRead	Returns the name of the canvas associated with the active preset.
DurationRead	Preset.DurationRead	Integer	Preset.DurationRead = 0 !Done Preset.DurationRead	The time in milliseconds for a Storyboard to be applied. The range is 0 to 60,000.

## Methods

Command	Syntax	Type	Example	Description
PresetList	Preset.PresetList()	List	Routing.Preset.PresetList[1]=start,Canvas1,1000 Routing.Preset.PresetList[2]=side_by_side,Canvas1,3000 Routing.Preset.PresetList[3]=top_and_bottom,Canvas1,2000 Routing.Preset.PresetList[4]=two,Canvas1,1000 Routing.Preset.PresetList[5]=one,Canvas1,2000 Routing.Preset.PresetList[8]=one_inverted,Canvas1,2000 Routing.Preset.PresetList[11]=more,Canvas1,1000 !Done Preset.PresetList()	List all the valid presets by ID. The result will contain the preset name and Canvas name if any. Note that this list is an ordered sparse list. There may be IDs that are unused that these will not be shown in the list.

Command	Syntax	Type	Example	Description
SaveRead	Preset.SaveRead()	Void	// Preset(s) saved. !Done Preset.SaveRead()	Save the active preset from the live data (RAM) to the on-chip memory.
RestoreRead	Preset.RestoreRead()	Void	// Preset(s) restored. !Done Preset.RestoreRead()	Restore the active preset from the on-chip memory to the live data (RAM).
RmvPresetFileRead	Preset.RmvPresetFileRead()	Void	// Preset(s) cleared. !Done Preset.RmvPresetFileRead()	Clear the active preset from the on-chip memory.
RemovePresetFiles	Preset.RemovePresetFiles()	Void	// Preset(s) cleared. !Done Preset.RemovePresetFiles()	Clear all presets from the on-chip memory.

## Events

Category	Event	Syntax	Example	Description
PRESET	TAKE	TAKE,<preset>	!Event PRESET,TAKE,1	Raised when a preset is taken
PRESET	COMPLETE	COMPLETE,<preset>	!Event PRESET, COMPLETE,1	Raised when a preset is completed
PRESET	SAVE	SAVE,<preset>	!Event PRESET,SAVE,1	Raised when a preset is saved
PRESET	REMOVE	REMOVE,<preset>	!Event PRESET, REMOVE,1	Raised when a preset is removed

## Custom Types

Name	Values
ActiveOff	Active, Off
AnalogType	RGBHV, RGBS, RGsB, YUV, CV+YC
AspectRatio	16:9, 4:3, 5:4, 16:10, 5:3, 1:1, 16:6
AudiolInput	Slot<n>.In<n>.AudIn<X>, NULL - Where <n> is a number and <X> is a letter.
Boolean	"On" and "Off" or "Yes" and "No"
BackplaneType	Type 1 = 4EHQ and 16HQ windows Type 2 = 6EHQ and 12HQ windows Type 3 = 8EHQ and 8HQ windows
ColourScale	Auto, Black, YUV, RGB, YUV_601, YUV_709
DisplayType	Monitor, Projector, None
FoundNot	Found, Not_Found
FoundOff	Found, Off
FramelockStatus	Locked, Unlocked
FrameType	I Interlaced P Progressive
GenlockStatus	Off, Locked
HDBaseTError	The quality of the HDBaseT link. Max error Status: Valid: <n> : <n> : <n> : <n>                      The error statistics have stabilised. Caution: <n> : <n> : <n> : <n>                      The error statistics have not yet stabilised. Four channels of error statistics. If valid, the lower the number the better the quality of the link For example: Valid: 16 : 15 : 15 : 16
HDBaseTHDMI	The current state of the Video transfer: HDBASE_T_HDMI_NONE                      No video is being transmitted over the link. HDBASE_T_HDMI_ON                          Un-encrypted video is being transmitted over the link. HDBASE_T_HDMI_HDCP_ON                      Encrypted video is being sent over the link. HDBASE_T_HDMI_INDETERMINATE              Warning, unable to read remote status.

Name	Values																						
HDBaseTLink	<p>Local and remote link status:</p> <table> <tr> <td>HDBASE_T_LINK_NONE</td> <td>No link established.</td> </tr> <tr> <td>HDBASE_T_LINK_ON</td> <td>Link is established.</td> </tr> <tr> <td>HDBASE_T_LINK_LOW_POWER</td> <td>Link has entered a low power mode.</td> </tr> <tr> <td>HDBASE_T_LINK_ETHER_ONLY</td> <td>Ethernet only mode.</td> </tr> <tr> <td>HDBASE_T_LINK_INDETERMINATE</td> <td>An error condition has occurred.</td> </tr> </table> <p>Note that the remote link and the local link should normally be expected to be in the same state. A difference would indicate an error condition, or a possible incompatibility between the transmitter and the receiver.</p>	HDBASE_T_LINK_NONE	No link established.	HDBASE_T_LINK_ON	Link is established.	HDBASE_T_LINK_LOW_POWER	Link has entered a low power mode.	HDBASE_T_LINK_ETHER_ONLY	Ethernet only mode.	HDBASE_T_LINK_INDETERMINATE	An error condition has occurred.												
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HDBaseTStatus	<p>The status of the HDBaseT module, it consists of a configuration part and a mode part.</p> <p>The current configuration:</p> <table> <tr> <td>Unknown</td> <td>An error has occurred.</td> </tr> <tr> <td>Auto</td> <td>The link has auto configured. The expected value.</td> </tr> <tr> <td>Manual</td> <td>Not supported</td> </tr> </table> <p>The current mode:</p> <table> <tr> <td>Standard mode</td> <td>Default, normal operation.</td> </tr> <tr> <td>Disconnect</td> <td>Link is inactive.</td> </tr> <tr> <td>Long reach mode</td> <td>Link is attempting to work over a longer cable.</td> </tr> <tr> <td>Ethernet Fallback</td> <td>Link will pass Ethernet connections but not video.</td> </tr> <tr> <td>Reserved</td> <td>Link is in a reserved state. This will indicate an error condition.</td> </tr> <tr> <td>Powerdown 1</td> <td>The link has entered one of two low power modes</td> </tr> <tr> <td>Powerdown 2</td> <td>The link has entered one of two low power modes.</td> </tr> <tr> <td>HDMI Bypass</td> <td>Link is not being used. Entering this mode will indicate an error of some kind.</td> </tr> </table>	Unknown	An error has occurred.	Auto	The link has auto configured. The expected value.	Manual	Not supported	Standard mode	Default, normal operation.	Disconnect	Link is inactive.	Long reach mode	Link is attempting to work over a longer cable.	Ethernet Fallback	Link will pass Ethernet connections but not video.	Reserved	Link is in a reserved state. This will indicate an error condition.	Powerdown 1	The link has entered one of two low power modes	Powerdown 2	The link has entered one of two low power modes.	HDMI Bypass	Link is not being used. Entering this mode will indicate an error of some kind.
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HDCPDownstream	<p>Status of the HDCP link:</p> <table> <tr> <td>HoldOn</td> <td>Keep HDCP active</td> </tr> <tr> <td>KeepOff</td> <td>De-activate HDCP</td> </tr> <tr> <td>FollowSource</td> <td>Turns HDCP on or off depending on the source</td> </tr> </table>	HoldOn	Keep HDCP active	KeepOff	De-activate HDCP	FollowSource	Turns HDCP on or off depending on the source																
HoldOn	Keep HDCP active																						
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FollowSource	Turns HDCP on or off depending on the source																						
HDCPReq	Required, Off																						
HDCPSup	Supported, Off																						
InnerGrid	Off, Left, Right, Top, Bottom, All																						

Name	Values
KeyFrame	Key frame properties (property,time,value,mode) property      The Property to set time           The time in milliseconds from start of Storyboard to this Key Frame. value          The value to apply to the Property mode           The mode to be used for the interpolation. Interpolation mode Discrete       The value is applied at the mid-point between this and the previous Key Frame. Linear          The value is applied during the frames between this and the previous Key Frame.
Polarity	N      Negative P      Positive
Role	Administrator, PowerUser, User, Test
ScanMode	I      Interlaced P      Progressive
SrcLossColor	Black, Blue, Red, Green, Yellow, Magenta, Cyan, White
StatusEnum	UNKNOWN, OK, INVALID
SystemStatus	Serving, Busy
TestPattern	RGB_100, Black, 8x8_Grid, Dot, 8x8_ChqBrd
TypeChoice	Options for DVI cards: DVI, RGBHV, RGsB, YUV, CV, YC Options for SDI cards SDI
WindowStatus	FREE, ALLOCATED, IN USE, NULL

