Communication Sneet

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This document provides additional assistance with wiring your Extron IP Link Pro Control Processor to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific IP Link Pro Control Processor or the documentation supplied by the manufacturer of the controlled device.

For more information on using Global Scripter Modules, refer to the "Guide to Using Scripter Modules" document.

### **Device Specifications**

Device Type: Streaming Media

Manufacturer: Extron Firmware Version: 2.04

Model(s): SMD 101, SMD 202

### **Tested on the Following Software and Firmware Versions**

IP Link Pro Control Processor Firmware	Global Scripter Version
3.04.0001-b002	2.3.1

### **Version History**

Module Version	Date	Notes
1_11_4_0	12/11/2019	Added:  Note about Channel Preset Recall command  Sort command parameter to File and Folder Update command  Load Source Command  Load Source String Removed:  Sorting of Favorites  Updated:  Ethernet Protocol to SSH  Fixed serial control  Fixed encoding to support additional languages
1_10_1_0	3/27/2019	<ul> <li>Added ability to sort the folders and files name in alphabetical order.</li> <li>Added ability to view and load additional results for command</li> </ul>

		sets. Fixed Channel Preset Recall status.
1_8_1_0	8/1/2018	Updated Appendix B table.
1_8_0_0	7/3/2018	<ul> <li>Combined SMD101 and SMD202 modules</li> <li>Added functionality for Channel List, Favorite List, Folder, and History List commands</li> <li>Improved functionality for File commands.</li> <li>See "Renamed Commands and Values" tables below for changes in commands and its values.</li> <li>Added CurrentSourceItem command</li> <li>Added additional file extension support</li> <li>Updated notes on how to use commands</li> </ul>
1_2_7_0	6/9/2017	Fixed Load File (Navigation) command. Updated File List to now show when you have reached the end of the list. File List also now only will display the name of the file available rather than the whole path of that file.
1_2_5_0	2/23/2017	Fixing LoopPlay command string.
1_2_4_0	1/26/2017	Updated Playback status to catch unsolicited changes from Webpage.
1_2_2_0	6/28/2016	Added Subtitles and Loop Play commands. Added Next Track and Previous Track to Playback. Fixed File List.
1_2_0_0	4/1/2016	Initial Version

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### **Module Notes**

#### **Module Notes**

• Unidirectional variable must be set to 'True' if status is not required. Default value is 'False'.

Example: InterfaceName.Unidirectional = 'True'

• connectionCounter variable must be set to the number of queries that will be sent to the device before displaying 'Disconnected' if no response is received. Default value is 15.

Example: InterfaceName.connectionCounter = 5

• If login credentials are required, devicePassword must be set accordingly.

Example: InterfaceName.devicePassword = 'extron'

• Number of Channel List Search variable must be set accordingly. Default value is '5'. Number of Channel List Search ranges from '1' to '100'.

Example: InterfaceName.NumberofChannelListSearch = '1'

• Number of Favorites Folder Search variable must be set accordingly. Default value is '1'. Number of Favorites Folder Search ranges from '1' to '100'.

Example: InterfaceName.NumberofFavoritesFolderSearch = '1'

• NumberofFavoritesItemSearch variable must be set accordingly. Default value is '1'. Number of Favorites Item Search ranges from '1' to '100'.

Example: InterfaceName.NumberofFavoritesItemSearch = '1'

• Number of File Search variable must be set accordingly. Default value is '1'. Number of File Search ranges from '1' to '100'.

Example: InterfaceName.NumberofFileSearch = '1'

Number of Folder Search variable must be set accordingly. Default value is '1'. Number of Folder Search ranges from '1' to '100'.

Example: InterfaceName.NumberofFolderSearch = '1'

• Number of History List Search variable must be set accordingly. Default value is '1'. Number of History List Search ranges from '1' to '100'.

Example: InterfaceName.NumberofHistoryListSearch = '1'

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### **Supported Classes and Examples**

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### **Renamed Commands and Values for the SMD 101**

The following commands and values have been renamed or changed. Please make appropriate changes in any Set, Update, ReadStatus, or SubscribeStatus method calls that use these commands and values within your GS project.

Previous Command Name	Previous Value Name	New Command Name	New Value Name
OutputResolution	'576p'	-	'576p (50Hz)'
Pattern	-	TestPatterns	-
PlaylistStatus	-	CurrentPlaylistTrack	-
PowerSaveMode	'On'	PowerMode	'Full Power'
PowerSaveMode	'Off'	PowerMode	'Low Power – Standby State'
ScreenSaver	'Black'	-	'Black Screen'
ScreenSaver	'Blue'	-	'Blue Screen with OSD text'
ScreenSaver	'Custom'	-	'Custom color set via webpage'
TemperatureStatus	-	Temperature	-
VideoMute	'Black'	-	'Video Mute'
VideoMute	'Sync and Video'	-	'Sync and Video Mute'
VideoMute	'Off'	-	'Unmute'
FavoritesList	-	FavoritesItemSearchResults	-
FileListFavorite	-	FavoritesItemNavigation	-
LoadFileFavorite	-	LoadSelectedFavoritesItem	-
FileList	-	FileSearchResults	-
FileListNavigation	-	FileNavigation	-
LoadFileNavigation	-	LoadSelectedItem	-
RefreshFileList	-	FileandFolderUpdate	-
HistoryList	-	HistoryListSearchResults	-
LoadFileHistory	-	LoadSelectedHistoryItem	-
PresetList	-	ChannelListSearchResults	-
PresetRecall	-	ChannelPresetRecall	-
PresetRecallStep	-	ChannelPresetRecallStep	-

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### **Renamed Commands and Values for the SMD 202**

The following commands and values have been renamed or changed. Please make appropriate changes in any Set, Update, ReadStatus, or SubscribeStatus method calls that use these commands and values within your GS project.

<b>Previous Command Name</b>	Previous Value Name	New Command Name	New Value Name
OutputResolution	'576p'	-	'576p (50Hz)'
PlaylistStatus	-	CurrentPlaylistTrack	-
PowerSaveMode	'On'	PowerMode	'Full Power'
PowerSaveMode	'Off'	PowerMode	'Low Power – Standby State'
ScreenSaver	'Custom color set via DWP'	-	'Custom color set via webpage'
VideoMute	'Black'	-	'Video Mute'
VideoMute	'Sync and Video'	-	'Sync and Video Mute'
VideoMute	'Off'	-	'Unmute'
FileListNavigation	-	FileNavigation	-
FileList	-	FileSearchResults	-
RefreshFileList	'Current Director'	FileandFolderUpdate	'Current Directory Only'
FilterFilesByExtension	-	FilterItemsByExtension	-
Playback	'Next Track'	-	'Next'
Playback	'Previous Track'	-	'Previous'
Subtitles	-	ClosedCaption	-
PresetRecall	'0' – '99'	ChannelPresetRecall	1 – 999
PresetRecallStep	-	ChannelPresetRecallStep	-

### **Playback Commands**

- LoadFileCommand
  - This command will load the media item in the file path specified in the 'String' value directly to the SMD.

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- Example: InterfaceName.Set('LoadFileCommand', 'Folder1/File1.mp4')
- LoadPlaylistCommand
  - This command will load a playlist in the playlist path specified in the 'String' value directy to the SMD
  - o Example: InterfaceName.Set('LoadPlaylistCommand', 'Folder1/Playlist1.jspf')

### **Manually Changing Directories and Viewing Current Directory**

- ChangeDirectory
  - This command is used to manually change directories on the SMD. It requires a 'Directory Path' qualifier value to specify which directory to change to.
  - Directory Path examples:
    - To change to root directory: "root" or leave blank
    - To change to directories within the root directory: "root/Folder1/Folder2" or "/Folder1/Folder2"
  - Folder names are case-sensitive and cannot contain any of the following characters: /; \*? " <</li>
     | (the / character is used for navigating only
- CurrentDirectory
  - o This command displays the current directory that the device is in

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### **Configuring Advanced Applications**

This module consists of several different command groups that can provide powerful applications. These applications include viewing, navigating, and loading various items configured on the SMD to allow for a very user-friendly experience. These applications make it much easier to manage and manipulate information on the SMD. To get a general idea of how to create an application using these command groups, please continue reading the sections below.



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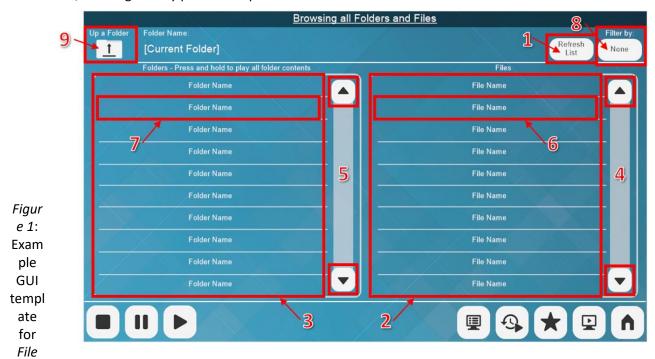
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### **File and Folder Navigation Commands**

These commands provide a way to view, navigate, and load the files configured on the SMD via an Extron user interface (e.g. TLP or Extron Control). These commands offer both a way to view and load files (or other media items), as well as navigating through the folders that files reside in. Because of the additional folder navigating capabilities, the File and Folder command group is separated into two sub-groups. One sub-group handles the viewing and loading of files, and the other sub-group handles the folder navigation. Commands apart of these two sub-groups should remain separate from each other to work properly. Notice that each command has a unique tag included in the name to identify which commands belong together. One of the tags is the word 'File' (or 'Item') and the other tag is the world 'Folder'.

- The File and Folder Navigation group consists of the variables *NumberofFileSearch* and *NumberofFolderSearch*, as well as the following commands
  - 1) FileandFolderUpdate
  - 2) FileSearchResults
  - 3) FolderSearchResults
  - 4) FileNavigation
  - 5) FolderNavigation
  - 6) LoadSelectedItem
  - 7) FolderAction
  - 8) FilterItemsByExtension
  - 9) FolderUpOneDirectory

<u>CAUTION</u>: These commands are only intended to be used together, not separate or combined with other commands, as doing so may produce unpredictable or undesired results.



and Folder Navigation command group

- NumberofFileSearch and NumberofFolderSearch
  - These variables are used to specify how many results to show for FileSearchResults and FolderSearchResults, respectively. They are set to a default value of '5' and should be updated accordingly if the user wants to see more results.

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#### FileandFolderUpdate

This command is used to either request the initial or most recent files and folders on the SMD. The *Directory* qualifier is used to specify what results are desired to be shown, either from the *Current Directory Only* or the *Current Directory and Below*. Sending this command will populate results for both the *FileSearchResults* and the *FolderSearchResults*. Note: only folders with playable files in them will be shown

#### FileSearchResults and FolderSearchResults

These commands are used to display the results obtained from the SMD after sending
 FileandFolderUpdate. The Position qualifier is used to determine the order that results will be
 written. The amount of results written is dependent on the value of the NumberofFileSearch and
 NumberofFolderSearch variables.

#### • FileNavigation and FolderNavigation

These commands are used to navigate through the results that are written for *FileSearchResults* and *FolderSearchResults*. The user has the option to navigate *Up*, *Down*, *Page Up*, or *Page Down* through the results. The *Page Up* and *Page Down* amount is determined by the *NumberofFileSearch* and *NumberofFolderSearch* variables.

#### FolderAction

This command is used to either step into a folder or load a folder itself with all its contents.
 Sending this command will repopulate new results shown for FileSearchResults and
 FolderSearchResults, therefore FileandFolderUpdate is not required to use again to view the new results.

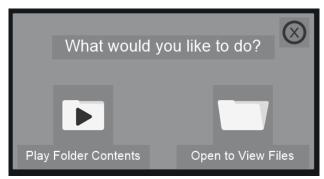


Figure 2: This window pops up upon pressing #7 in Figure 1

#### FolderUpOneDirectory

 This command is used to step out of a folder once a folder is stepped into. Sending this command will also repopulate new results shown for *FileSearchResults* and *FolderSearchResults*, therefore *FileandFolderUpdate* is not required to use again to view the new results.

#### FilterItemsByExtension

This command is used to filter the results shown for FileSearchResults and FolderListResults. The
File Extension qualifier is used to determined which file extensions the user wants to view at a
given time.

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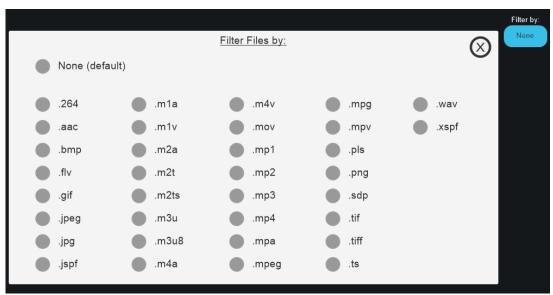


Figure 3: This window pops up upon pressing #8 in Figure 1

#### • LoadSelectedItem

o This command is used to load an item on the SMD selected for *FileSearchResults*. The state selected for this command corresponds to the value of the *Position* qualifier for *FileSearchResults*.

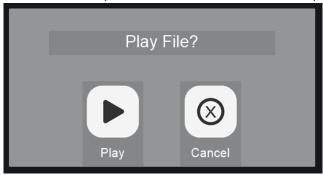


Figure 4: This window pops up upon pressing #6 in Figure 1

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#### **Channel List Commands**

These commands provide a way to view, navigate, and load the channel presets configured on the SMD via an Extron user interface (e.g. TLP or Extron Control). The results shown can either be the channel number, channel name, or channel URI.

- The Channel List group consists of the following commands/variable:
  - Number of Channel List Search (variable)
  - ChannelListUpdate
  - ChannelListSearchResults
  - o ChannelListNavigation
  - FilterChannelListByExtension
  - LoadSelectedChannel

<u>CAUTION</u>: These commands are only intended to be used together, not separate or combined with other commands, as doing so may produce unpredictable or undesired results.

#### • NumberofChannelListSearch

• This variable is used to specify how many results to show for *ChannelListSearchResults*. It is set to a default value of '5' and should be updated accordingly if the user wants to see more results.

#### ChannelListUpdate

 This command is used to either request the initial or most recent configured channel presets on the SMD. The *Type* qualifier is used to specify what type of results will be shown: channel number, channel name, or channel URI.

#### • ChannelListSearchResults

This command is used to display the results obtained from the SMD after sending
 ChannelListUpdate. The Position qualifier is used to determine the order that results will be
 written. The amount of results written is dependent on what is set for the
 NumberofChannelListSearch variable.

#### ChannelListNavigation

 This command is used to navigate through the results that are written for ChannelListSearchResults. The user has the option to navigate Up, Down, Page Up, or Page Down through the results. The Page Up and Page Down amount is determined by the NumberofChannelListSearch variable.

#### • FilterChannelListByExtension

• This command is used to filter the results shown for *ChannelListSearchResults*. The *File Extension* qualifier is used to determined which file extensions the user wants to view at a given time.

#### LoadSelectedChannel

extr\_sm\_SMD101\_SMD202\_v1\_ 11\_4\_0.py

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 This command is used to load an item on the SMD selected for ChannelListSearchResults. The state selected for this command corresponds to the value of the Position qualifier for ChannelListSearchResults.

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### **Favorites Item and Folder Navigation Commands**

These commands provide a way to view, navigate, and load the favorites configured on the SMD via an Extron user interface (e.g. TLP or Extron Control). These commands offer both a way to view and load favorite items, as well as navigating through the folders that items reside in. Because of the additional folder navigating capabilities, the Favorites command group is separated into two sub-groups. One sub-group handles the viewing and loading of favorite items, and the other sub-group handles the favorite folders navigation. Commands apart of these two sub-groups should remain separate from each other to work properly. Note that each command has a unique tag included in the name to identify which commands belong with one another. One of the tags is the word **'Item'** and the other is the word **'Folder'**.

- The Favorites Item and Folder Navigation group consists of the following commands/variables:
  - NumberofFavoritesItemSearch (variable)
  - NumberofFavoritesFolderSearch (variable)
  - FavoritesItemandFolderUpdate
  - FavoritesItemSearchResults
  - FavoritesFolderSearchResults
  - o FavoritesItemNavigation
  - FavoritesFolderNavigation
  - FavoritesFolderUpOneDirectory
  - FilterFavoritesItemsByExtension
  - LoadSelectedFavoritesItem
  - StepIntoFavoritesFolder

<u>CAUTION</u>: These commands are only intended to be used together, not separate or combined with other commands, as doing so may produce unpredictable or undesired results.

- Number of FavoritesItemSearch and Number of FavoritesFolderSearch
  - These variables are used to specify how many results to show for FavoritesItemSearchResults and
    FavoriteFolderSearchResults, respectively. They are set to a default value of 5 and should be
    updated accordingly if the user wants to see more results.
- FavoritesItemandFolderUpdate
  - This command is used to either request the initial or most recent favorite items and folders on the SMD. Sending this command will populate results for both the FavoritesItemSearchResults and the FavoritesFolderSearchResults.
- FavoritesItemSearchResults and the FavoritesFolderSearchResults
  - These commands are used to display the results obtained from the SMD after sending FavoritesItemandFolderUpdate. The Position qualifier is used to determine the order that results will be written. The amount of results written is dependent on what is set for the NumberofFavoritesItemSearch and NumberofFavoritesFolderSearch variables.
- FavoritesItemNavigation and FavoritesFolderNavigation
  - These commands are used to navigate through the results that are written for FavoritesItemSearchResults and FavoritesFolderSearchResults. The user has the option to navigate

*Up, Down, Page Up,* or *Page Down* through the results. The *Page Up* and *Page Down* amount is determined by the *NumberofFavoritesItemSearch* and *NumberofFavoritesFolderSearch* variables.

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### • StepIntoFavoritesFolder

 This command is used to step into a favorites folder. Sending this command will repopulate new results shown for FavoritesItemSearchResults and FavoritesFolderSearchResults, therefore FavoritesItemandFolderUpdate is not required to use again to view the new results.

#### • Favorites Folder Up One Directory

This command is used to step out of a favorites folder once a folder is stepped into. Sending this command will also repopulate new results shown for FavoritesItemSearchResults and FavoritesFolderSearchResults, therefore FavoritesItemandFolderUpdate is not required to use again to view the new results.

#### FilterFavoritesItemsByExtension

This command is used to filter the results shown for FavoritesItemSearchResults and
FavoritesFolderSearchResults. The File Extension qualifier is used to determined which file
extensions the user wants to view at a given time.

#### LoadSelectedFavoritesItem

 This command is used to load a favorites item on the SMD selected for FavoritesItemSearchResults. The state selected for this command corresponds to the value of the Position qualifier for FavoritesItemSearchResults.

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### **History List Commands**

These commands provide a way to view, navigate, and load the previously played items on the SMD via an Extron user interface (e.g. TLP or Extron Control).

- The History List group consists of the following commands/variable:
  - NumberofHistoryListSearch (variable)
  - HistoryListUpdate
  - HistoryListSearchResults
  - HistoryListNavigation
  - FilterHistoryListByExtension
  - o LoadSelectedHistoryItem

<u>CAUTION</u>: These commands are only intended to be used together, not separate or combined with other commands, as doing so may produce unpredictable or undesired results.

#### NumberofHistoryListSearch

• This variable is used to specify how many results to show for *HistoryListSearchResults*. It is set to a default value of '5' and should be updated accordingly if the user wants to see more results.

### HistoryListUpdate

o This command is used to either request the initial or most recent history items from the SMD.

#### HistoryListSearchResults

This command is used to display the results obtained from the SMD after sending
 HistoryListUpdate. The Position qualifier is used to determine the order that results will be
 written. The amount of results written is dependent on what is set for the
 NumberofHistoryListSearch variable.

#### • HistoryListNavigation

This command is used to navigate through the results that are written for
 HistoryListSearchResults. The user has the option to navigate Up, Down, Page Up, or Page Down
 through the results. The Page Up and Page Down amount is determined by the
 NumberofHistoryListSearch variable.

### FilterHistoryListByExtension

This command is used to filter the results shown for *HistoryListSearchResults*. The *File Extension* qualifier is used to determined which file extensions the user wants to view at a given time.

#### LoadSelectedHistoryItem

 This command is used to load a history item on the SMD selected for *HistoryListSearchResults*. The state selected for this command corresponds to the value of the *Position* qualifier for *HistoryListSearchResults*.

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### **Control Commands**

Format with Qualifier:

InterfaceName.Set(Command, Value, {'Qualifier Key': 'Qualifier Value'})

Format with Qualifier:

InterfaceName.Set(Command, Value)

InterfaceName.Set(Commar	i i		
Command	Value	Value	Value
AspectRatio	'Zoom'	'Fill'	'Follow'
# AspectRatio example			
InterfaceName.Set('AspectR			
Command	Value	Value	
AudioMute	'On'	'Off'	
# AudioMute example			
InterfaceName.Set('AudioMu	ıte', 'On')		
Command	Value		
ChangeDirectory	None		
Qualifier Key	Qualifier Value		
'Directory Path'	'String'		
<pre># ChangeDirectory example InterfaceName.Set('ChangeDirectory')</pre>	Directory', None, {'Dir	ectory Path': 'String'}	·)
Command	Value	Value	Value
ChannelListNavigation	'Up'	'Down'	'Page Up'
	'Page Down'	- +	F
# ChannelListNavigation ex			
InterfaceName.Set('Channel	LlistNavigation'. 'Un')		
Command	Value		
ChannelListUpdate	None		
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Type'	'Channel'	'Name'	'URI'
# ChannelListUpdate exampl		- INAIIIE	OKI
InterfaceName.Set('Channel		vne': 'Channel'})	
Command	Value	ype : chamer jy	
ChannelPresetRecall	1 – 999		
# ChannelPresetRecall exam			
InterfaceName.Set('Channel	PresetRecall', 999)		
Command	Value	Value	
ChannelPresetRecallStep	'Next'	'Previous'	
<pre># ChannelPresetRecallStep InterfaceName.Set('Channel</pre>	example		
Command	PresetRecallStep', 'Ne	•	•
	PresetRecallStep', 'Ne Value	Value	
ClosedCaption <sup>1</sup>	PresetRecallStep', 'Ne	•	
	Value 'On'	Value	
ClosedCaption <sup>1</sup> # ClosedCaption example	Value 'On' Caption', 'On') Value	Value	Value
ClosedCaption <sup>1</sup> # ClosedCaption example InterfaceName.Set('ClosedC	PresetRecallStep', 'Ne Value 'On' Caption', 'On')	Value 'Off'	Value 'Page Up'
# ClosedCaption example InterfaceName.Set('ClosedCommand	Value 'On' Caption', 'On') Value 'Up'	Value 'Off'  Value	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedC Command FavoritesFolderNavigation	Value 'On' Caption', 'On') Value 'Up' 'Page Down'	Value 'Off'  Value	
# ClosedCaption example InterfaceName.Set('ClosedCommand	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example	Value 'Off'  Value 'Down'	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedC Command FavoritesFolderNavigation # FavoritesFolderNavigation	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example	Value 'Off'  Value 'Down'	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedCommand FavoritesFolderNavigation  # FavoritesFolderNavigation InterfaceName.Set('FavoriteCommand	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example cesFolderNavigation', 'Ne	Value 'Off'  Value 'Down'	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedCommand FavoritesFolderNavigation  # FavoritesFolderNavigation InterfaceName.Set('FavoriteCommand FavoritesFolderUpOneDirectory	Value 'On'  Caption', 'On')  Value 'Up' 'Page Down' on example cesFolderNavigation', 'Value None	Value 'Off'  Value 'Down'	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedCommand FavoritesFolderNavigation  # FavoritesFolderNavigation InterfaceName.Set('FavoriteCommand	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example cesFolderNavigation', 'Value None ectory example	Value 'Off'  Value 'Down'	
# ClosedCaption 1  # ClosedCaption example InterfaceName.Set('ClosedCommand FavoritesFolderNavigation  # FavoritesFolderNavigation InterfaceName.Set('FavoritesFolderUpOneDirectory # FavoritesFolderUpOneDirectory # FavoritesFolderUpOneDirectory	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example cesFolderNavigation', 'Value None ectory example	Value 'Off'  Value 'Down'	
# ClosedCaption 1 # ClosedCaption example InterfaceName.Set('ClosedCommand FavoritesFolderNavigation  # FavoritesFolderNavigation  # FavoritesFolderNavigation  Command FavoritesFolderUpOneDirectory # FavoritesFolderUpOneDirectory  InterfaceName.Set('FavoritesFolderUpOneDirectory)	Value 'On' Caption', 'On') Value 'Up' 'Page Down' on example cesFolderNavigation', 'Value None ectory example cesFolderUpOneDirectory	Value 'Off'  Value 'Down'	

InterfaceName.Set('Favorites	sItemandFolderUpdate', No	one)	
Command	Value	Value	Value
FavoritesItemNavigation	'Up'	'Down'	'Page Up'
	'Page Down'		
# FavoritesItemNavigation ex			
InterfaceName.Set('Favorites	Value		
Command FileandFolderUpdate	None		
Qualifier Key	Qualifier Value	Qualifier Value	
'Sort'	'Alphanumeric'	'Date Modified'	
Qualifier Key	Qualifier Value	Qualifier Value	
'Directory'	'Current Directory Only'	'Current Directory and	
Birectory	Carrent Birectory Only	Below'	
# FileandFolderUpdate examp	<u> </u>  e	BCIOW	
InterfaceName.Set('FileandFo		rt': 'Alphanumeric', 'Di	rectory': 'Current
Directory Only'})			
Command	Value	Value	Value
FileNavigation	'Up'	'Down'	'Page Up'
	'Page Down'		
<pre># FileNavigation example InterfaceName.Set('FileNavigue </pre>	gation', 'Up')		
Command	Value		
FilterChannelListByExtension	None		
Qualifier Key			
'File Extension'			
<pre># FilterChannelListByExtens: InterfaceName.Set('FilterChannel')</pre>		nna)	
Command	Value	ine)	
FilterFavoritesItemsByExtension	None		
Qualifier Key			
'File Extension'			
# FilterFavoritesItemsByExte	ension example	•	-
InterfaceName.Set('FilterFav	voritesItemsByExtension',	None)	
Command	Value		
FilterHistoryListByExtension	None		
Qualifier Key			
'File Extension'			
<pre># FilterHistoryListByExtens: InterfaceName.Set('FilterHist</pre>		nne)	
Command	Value	one )	
FilterItemsByExtension	None		
Qualifier Key			
'File Extension'			
# FilterItemsByExtension exa			
InterfaceName.Set('FilterIte			
Command	Value		
FolderAction	'1' - '100'		
Qualifier Key	Qualifier Value	Qualifier Value	
'Action'	'Step into Folder'	'Load Folder'	
<pre># FolderAction example InterfaceName.Set('FolderAct</pre>	tion', '1', {'Action': 'S	Step into Folder'})	
Command	Value	Value	Value
FolderNavigation	'Up'	'Down'	'Page Up'

	'Page Down'		
# FolderNavigation example		<u>.</u>	
InterfaceName.Set('FolderN	1		
Command	Value		
FolderUpOneDirectory	None	-	<u>-</u>
# FolderUpOneDirectory exa			
InterfaceName.Set('Folder	· T	M-1	V-l
Command	Value 'Up'	Value 'Down'	Value
HistoryListNavigation	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	DOWN	'Page Up'
	'Page Down'		
<pre># HistoryListNavigation ex InterfaceName.Set('History</pre>			
Command	Value		
HistoryListUpdate	None		
# HistoryListUpdate exampl		-	-
InterfaceName.Set('History			
Command	Value	Value	
Input	'Decoder'	'HDMI'	
# Input example			
<pre>InterfaceName.Set('Input',</pre>	'Decoder')		
Command	Value		
LoadFileCommand	'String'		
# LoadFileCommand example			
InterfaceName.Set('LoadFil	<u> </u>		
Command	Value		
LoadPlaylistCommand	'String'	<u> </u>	<u>-</u>
# LoadPlaylistCommand exam		lama I \	
<pre>InterfaceName.Set('LoadPla Command</pre>	Value Playiisti	ame )	
LoadSelectedChannel	'1' - '100'		
# LoadSelectedChannel exam		-	-
InterfaceName.Set('LoadSel			
Command	Value		
LoadSelectedFavoritesItem	'1' – '100'		
# LoadSelectedFavoritesIte			
InterfaceName.Set('LoadSel			
Command	Value '1' - '100'		
LoadSelectedHistoryItem		-	-
<pre># LoadSelectedHistoryItem InterfaceName.Set('LoadSel</pre>			
Command	Value		
LoadSelectedItem	'1' – '100'		
<pre># LoadSelectedItem example</pre>			
InterfaceName.Set('LoadSel	ectedItem', '1')		
Command	Value		
LoadSourceCommand	'String'		
<pre># LoadSourceCommand exampl InterfaceName.Set('LoadSou</pre>			
Command	Value	Value	
LoopPlay	'On'	'Off'	
<pre># LoopPlay example InterfaceName.Set('LoopPla</pre>	y', 'On')		
Command	Value	Value	Value
OutputResolution	'576p (50Hz)'	'640x480 (50Hz)'	'640x480 (60Hz)'
•	1 1 1	ν /	( /

	'800x600 (50Hz)'	'800x600 (60Hz)'	'1024x768 (50Hz)'	
	'1024x768 (60Hz)'	'1280x1024 (50Hz)'	'1280x1024	
			(60Hz)'	
	11266v769 /FOU-)!	11266v769 (60H-)!	'1600x1200	
	'1366x768 (50Hz)'	'1366x768 (60Hz)'		
			(50Hz)'	
	'1600x1200 (60Hz)'	'1920x1200 (50Hz)'	'1920x1200	
			(60Hz)'	
	'480p (59.94Hz)'	'480p (60Hz)'	'720p (50Hz)'	
	'720p (60Hz)'	'1080i (50Hz)'	'1080i (59.94Hz)'	
	'1080i (60Hz)'	'1080p (23.98Hz)'	'1080p (24Hz)'	
	'1080p (25Hz)'	• •		
		'1080p (29.97Hz)'	'1080p (30Hz)'	
	'1080p (50Hz)'	'1080p (59.94Hz)'	'1080p (60Hz)'	
	'720p (59.94Hz)'	'Auto'	'1280x800 (50Hz)'	
	'1280x800 (60Hz)'			
<pre># OutputResolution examp</pre>				
	tResolution', '576p (50Hz)			
Command	Value	Value	Value	
Playback	'Stop'	'Play'	'Pause'	
	'Next'	'Previous'		
# Playback example				
InterfaceName.Set('Playb				
Command	Value	Value		
PowerMode	'Full Power'	'Low Power - Standby		
		State'		
# PowerMode example			•	
InterfaceName.Set('Power	Mode', 'Full Power')			
Command	Value	Value	Value	
ScreenSaver	'Custom color set via	'Black Screen'	'Blue Screen with	
	webpage'		OSD Text'	
# ScreenSaver example	•		-	
	nSaver', 'Custom color set	via webpage')		
Command	Value	Value		
Seek <sup>2</sup>	'Forward'	'Backward'		
Qualifier Key	Qualifier Value			
'Step'	1 to 65535 in steps of 1			
# Seek example				
<pre>InterfaceName.Set('Seek'</pre>	, 'Forward', {'Step': 6553	5})		
Command	Value			
StandbyTimer	0 – 500			
<pre># StandbyTimer example</pre>				
InterfaceName.Set('Stand	byTimer', 500)			
Command	Value			
StepIntoFavoritesFolder	'1' - '100'			
# StepIntoFavoritesFolde				
	ntoFavoritesFolder', '1')			
Command	Value	Value	Value	
TestPatterns	'Off'	'Alternating Pixels'	'Alternating Lines'	
	'Crosshatch'	'Color Bars'	'4x4 Crosshatch'	
	'Grayscale'	'Ramp'	'White Field'	
# TestPatterns example				
# Testratterns example				
# TestPatterns example InterfaceName.Set('TestP				
		Value	Value	
InterfaceName.Set('TestP	atterns', 'Off')	·	Value 'Unmute'	

# VideoMute example InterfaceName.Set('VideoMute', 'Video Mute')		
Command	Value	
Volume -100 to 0 in steps of 1		
# Volume example InterfaceName.Set('Volume', 0)		

<sup>&</sup>lt;sup>1</sup> Not supported for SMD 101

 $<sup>^2\,</sup> Specify\, how\, many\, seconds\, to\, seek\, forward/backward.\, Requires\, \textit{CurrentClipLength}\, and\, \textit{CurrentTimecode}$ status for this command to work. Setting a repeatTime for the button that calls this command is not recommended, but if necessary, a longer repeatTime is recommended.

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#### **Status Available**

For all commands except for AspectRatio, ChannelPresetRecall, ClosedCaption, CurrentClipLength, CurrentDirectory, CurrentSourceItem, CurrentTimecode, LoopPlay, ScreenSaver, Temperature, and TestPatterns, Update should be called only once since the command's status will be updated automatically as the device's status changes. ConnectionStatus, ChannelListSearchResults, FavoritesFolderSearchResults, FavoritesItemSearchResults, FileSearchResults, and HistoryListSearchResults do not support the Update function. ConnectionStatus is triggered by the device providing a successful response to other Update function calls.

#### Format with Qualifier:

```
InterfaceName.Update(Command, {'Qualifier Key': 'Qualifier Value'})
   Value = InterfaceName.ReadStatus(Command, {'Qualifier Key': 'Qualifier Value'})
   InterfaceName.SubscribeStatus(Command, {'Qualifier Key': 'Qualifier Value'},
FeedbackHandler)
```

FeedbackHandler will be called only when the specified qualifier gets a new status.

#### Format without Qualifier:

```
InterfaceName.Update(Command)
Value = InterfaceName.ReadStatus(Command)
InterfaceName.SubscribeStatus(Command, None, FeedbackHandler)
FeedbackHandler will be called when any qualifier gets a new status.
```

Command	Value	Value	Value
AspectRatio	'Zoom'	'Fill'	'Follow'
<pre># AspectRatio example InterfaceName.Update( Value = InterfaceName InterfaceName.Subscri</pre>	.ReadStatus('Aspec	tRatio') htio', None, FeedbackHa	andler)
Command	Value	Value	
AudioMute	'On'	'Off'	
<pre># AudioMute example InterfaceName.Update( Value = InterfaceName InterfaceName.Subscri</pre>	ReadStatus('Audio peStatus('AudioMut	oMute') ce', None, FeedbackHand	dler)
Command	Value		
ChannelListSearchResults	'String'		
Qualifier Key	Qualifier Value		
'Position'	'1' – '100'		
	.ReadStatus('Chanr	nelListSearchResults', istSearchResults', Nor	
Command	Value		
ChannelPresetRecall	1 – 999		
<pre># ChannelPresetRecall InterfaceName.Update( Value = InterfaceName InterfaceName.Subscri</pre>	'ChannelPresetReca .ReadStatus('Chanr		eedbackHandler)
Command	Value	Value	
ClosedCaption 1	'On'	'Off'	
<pre># ClosedCaption example InterfaceName.Update('ClosedCaption') Value = InterfaceName.ReadStatus('ClosedCaption') InterfaceName.SubscribeStatus('ClosedCaption', None, FeedbackHandler)</pre>			
Command	Value	Value	
ConnectionStatus	'Connected'	'Disconnected'	

# ConnectionStatus exa	
	ReadStatus('ConnectionStatus')
	peStatus('ConnectionStatus', None, FeedbackHandler)
Command	Value
CurrentClipLength <sup>2</sup>	'String'
<pre># CurrentClipLength ex InterfaceName.Update(</pre>	
	ReadStatus('CurrentClipLength')
	peStatus('CurrentClipLength', None, FeedbackHandler)
Command	Value
CurrentDirectory	'String'
# CurrentDirectory exa	ample
<pre>InterfaceName.Update(</pre>	
	ReadStatus('CurrentDirectory')
	peStatus('CurrentDirectory', None, FeedbackHandler)
Command	Value
CurrentPlaylistTrack	'String'
# CurrentPlaylistTrac	c example  CurrentPlaylistTrack')
	ReadStatus('CurrentPlaylistTrack')
	peStatus('CurrentPlaylistTrack', None, FeedbackHandler)
Command	Value
CurrentSourceItem	'String'
# CurrentSourceItem ex	cample
<pre>InterfaceName.Update(</pre>	
	ReadStatus('CurrentSourceItem')
	peStatus('CurrentSourceItem', None, FeedbackHandler)
Command	Value
CurrentTimecode	'String'
<pre># CurrentTimecode exam InterfaceName.Update(</pre>	
	ReadStatus('CurrentTimecode')
	peStatus('CurrentTimecode', None, FeedbackHandler)
Command	Value
FavoritesFolderSearchRes	'String'
ults	
Qualifier Key	Qualifier Value
'Position'	'1' – '100'
# FavoritesFolderSear	chResults example
	ReadStatus('FavoritesFolderSearchResults', {'Position': '1'})
	peStatus('FavoritesFolderSearchResults', None, FeedbackHandler)
Command	Value
FavoritesItemSearchResul	'String'
ts	
Qualifier Key	Qualifier Value
'Position'	'1' – '100'
# FavoritesItemSearch	
	ReadStatus('FavoritesItemSearchResults', {'Position': '1'}) peStatus('FavoritesItemSearchResults', None, FeedbackHandler)
Command	Value
FileSearchResults	'String'
Qualifier Key	Qualifier Value
'Position'	'1' - '100'
# FileSearchResults ex	
	ReadStatus('FileSearchResults', {'Position': '1'})
	peStatus('FileSearchResults', None, FeedbackHandler)

Command	Value		
FolderSearchResults	'String'		
Qualifier Key	Qualifier Value		
'Position'	'1' – '100'		
# FolderSearchResults			•
Value = InterfaceName	.ReadStatus('FolderSear	chResults', {'Position':	'1'})
	1	Results', None, FeedbackH	andler)
Command  History ListCoarch Possults	Value		
HistoryListSearchResults	'String'		
Qualifier Key 'Position'	'1' - '100'	Qualifier Value	
# HistoryListSearchRe		-	•
		stSearchResults', {'Posit	ion': '1'})
		earchResults', None, Feed	
Command	Value	Value	
Input	'Decoder'	'HDMI'	
# Input example			
InterfaceName.Update(			
Value = InterfaceName	<pre>.ReadStatus('Input') beStatus('Input', None,</pre>	FeedhackHandlen)	
Command	Value	Value	
LoopPlay	'On'	'Off'	
# LoopPlay example	011		
<pre>InterfaceName.Update(</pre>	'LoopPlay')		
	.ReadStatus('LoopPlay')		
	beStatus('LoopPlay', No		
Command	Value	Value	Value
OutputResolution	'576p (50Hz)'	'640x480 (50Hz)'	'640x480 (60Hz)'
	'800x600 (50Hz)'	'800x600 (60Hz)'	'1024x768 (50Hz)'
	'1024x768 (60Hz)'	'1280x1024 (50Hz)'	'1280x1024 (60Hz)'
	'1366x768 (50Hz)'	'1366x768 (60Hz)'	'1600x1200 (50Hz)'
	'1600x1200 (60Hz)'	'1920x1200 (50Hz)'	'1920x1200 (60Hz)'
	'480p (59.94Hz)'	'480p (60Hz)'	'720p (50Hz)'
	'720p (60Hz)'	'1080i (50Hz)'	'1080i (59.94Hz)'
	'1080i (60Hz)'	'1080p (23.98Hz)'	'1080p (24Hz)'
	'1080p (25Hz)'	'1080p (29.97Hz)'	'1080p (30Hz)'
	'1080p (50Hz)'	'1080p (59.94Hz)'	'1080p (60Hz)'
	'720p (59.94Hz)'	'Auto'	'1280x800 (50Hz)'
	'1280x800 (60Hz)'		
# OutputResolution ex	ample		
InterfaceName.Update(			
	.ReadStatus('OutputResc		lon
Command	Value	<b>:ion', None, FeedbackHand</b> Value	Value
Playback	'Stop'	'Play'	'Pause'
aywaan	'Next'	'Previous'	. 4430
# Playback example	TORC		
InterfaceName.Update(	'Playback')		
Value = InterfaceName	.ReadStatus('Playback')		
	beStatus('Playback', No		
Command	Value	Value	
PowerMode	'Full Power'	'Low Power - Standby	
		State'	
# PowerMode example	I Day ya mMa da I N		
InterfaceName.Update(	Powermode )		

Command	Value	Value	Value
ScreenSaver	'Custom color set via	'Black Screen'	'Blue Screen with OSD
	webpage'		Text'
# ScreenSaver example		•	•
InterfaceName.Update(			
	e.ReadStatus('ScreenSaven beStatus('ScreenSaver',		
Command	Value	None, reeubackilalidiei )	
Temperature	0 – 100		
<pre># Temperature example InterfaceName.Update(</pre>			
	ReadStatus('Temperature	e')	
	beStatus('Temperature',		
Command	Value	Value	Value
TestPatterns	'Off'	'Alternating Pixels'	'Alternating Lines'
	'Crosshatch'	'Color Bars'	'4x4 Crosshatch'
	'Grayscale'	'Ramp'	'White Field'
# TestPatterns exampl	· · · · · · · · · · · · · · · · · · ·	- Kamp	- Villice Field
InterfaceName.Update(			
	ReadStatus('TestPatter	ns')	
value = interfaceName			
		, None, FeedbackHandler)	
	beStatus('TestPatterns') Value	None, FeedbackHandler)  Value	Value
InterfaceName.Subscri	beStatus('TestPatterns'		Value 'Unmute'
<pre>InterfaceName.Subscri Command</pre>	beStatus('TestPatterns' Value	Value	
InterfaceName.Subscri Command VideoMute  # VideoMute example InterfaceName.Update(	Value 'Video Mute' 'VideoMute')	Value 'Sync and Video Mute'	
InterfaceName.Subscri Command VideoMute  # VideoMute example InterfaceName.Update( Value = InterfaceName	Value 'Video Mute'  'VideoMute')  ReadStatus('VideoMute')	Value 'Sync and Video Mute'	
InterfaceName.Subscri Command VideoMute  # VideoMute example InterfaceName.Update( Value = InterfaceName InterfaceName.Subscri	Value 'Video Mute'  'VideoMute')  ReadStatus('VideoMute')	Value 'Sync and Video Mute'	
InterfaceName.Subscri Command VideoMute  # VideoMute example InterfaceName.Update( Value = InterfaceName	Value 'Video Mute'  'VideoMute')  ReadStatus('VideoMute')	Value 'Sync and Video Mute'	

<sup>&</sup>lt;sup>1</sup> Not supported for SMD 101

<sup>&</sup>lt;sup>2</sup> Display format is the following: HH:MM:SS (HH = Hours, MM = Minutes, SS = Seconds)

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### **Cable and Adapter Requirements**

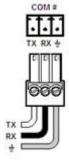
Captive Screw to Captive Screw RS-232 Serial Cable

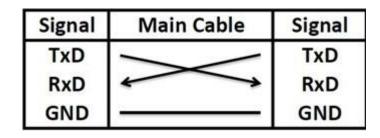
### **Notes for the Device**

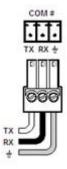
### **Serial communication**

Port Type:RS-232Parity:NoneBaud Rate:9600Stop Bits:OneData Bits:8Flow Control:None

### **Pin Assignments Diagram**







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## **Global Scripter Module Communication Sheet**

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### **Network communication**

When configuring the Ethernet module, be sure device settings match those of the Global Scripter ethernet interface.

Port Type: Ethernet

**Default Port:** 22023

**Logon Credentials** 

...

Supported:

**Default Username:** admin

**Default Password:** 

**Multi-Connection** 

Undetermined

Yes

**Capabilities:** 

Port Changeability: Yes

### **Ethernet Module Configuration Description**

Please refer to user manual for settings and changes to the network communication

### **Notes for the Device**

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## **Appendix A. Set Commands**

A	w1*1ASPR\x0D
Aspect Ratio Fill	w1*2ASPR\x0D
Aspect Ratio Follow	w1*0ASPR\x0D
Aspect Ratio Zoom	
Audio Mute Off	0Z
Audio Mute On	17
Change Directory None Directory Path testString	wtestString/CJ\x0D
Channel List Update None Type Channel	wGTVPR\x0D
Channel List Update None Type Name	wGTVPR\x0D
Channel List Update None Type URI	wGTVPR\x0D
Channel Preset Recall 1	1T
Channel Preset Recall 999	999Т
Channel Preset Recall Step Next	+T
Channel Preset Recall Step Previous	-T
Closed Caption Off	wE1*0SUBT\x0D
Closed Caption On	wE1*1SUBT\x0D
Favorites Item and Folder Update None	wGFAVS\x0D
File and Folder Update None Sort Alphanumeric	wdf\x0D
Directory Current Directory and Below	
File and Folder Update None Sort Alphanumeric	wdf\x0D
Directory Current Directory Only	
File and Folder Update None Sort Date Modified	wdf\x0D
Directory Current Directory and Below	
File and Folder Update None Sort Date Modified	wdf\x0D
Directory Current Directory Only	
Folder Up One Directory None	wCJ\x0D
History List Update None	wGHIST\x0D
Input Decoder	1!
Input HDMI	2!
Load File Command None	wU1*file:///FileNamePLYR\x0D
Load Playlist Command None	wL1*file:///PlayListPLYR\x0D
Load Source Command None	wU1*SourceNamePLYR\x0D
Loop Play Off	wR1*0PLYR\x0D
Loop Play On	wR1*1PLYR\x0D
Output Resolution 1024x768 (50Hz)	w14RATE\x0D
Output Resolution 1024x768 (60Hz)	w15RATE\x0D
Output Resolution 1080i (50Hz)	w35RATE\x0D
Output Resolution 1080i (59.94Hz)	w36RATE\x0D
Output Resolution 1080i (60Hz)	w37RATE\x0D
Output Resolution 1080p (23.98Hz)	w38RATE\x0D
Output Resolution 1080p (24Hz)	w39RATE\x0D
Output Resolution 1080p (25Hz)	w40RATE\x0D
Output Resolution 1080p (29.97Hz)	w41RATE\x0D
Output Resolution 1080p (30Hz)	w42RATE\x0D
<u> </u>	•

_	
Output Resolution 1080p (50Hz)	w43RATE\x0D
Output Resolution 1080p (59.94Hz)	w44RATE\x0D
Output Resolution 1080p (60Hz)	w45RATE\x0D
Output Resolution 1280x1024 (50Hz)	w16RATE\x0D
Output Resolution 1280x1024 (60Hz)	w17RATE\x0D
Output Resolution 1280x800 (50Hz)	w27RATE\x0D
Output Resolution 1280x800 (60Hz)	w28RATE\x0D
Output Resolution 1366x768 (50Hz)	w18RATE\x0D
Output Resolution 1366x768 (60Hz)	w19RATE\x0D
Output Resolution 1600x1200 (50Hz)	w20RATE\x0D
Output Resolution 1600x1200 (60Hz)	w21RATE\x0D
Output Resolution 1920x1200 (50Hz)	w22RATE\x0D
Output Resolution 1920x1200 (60Hz)	w23RATE\x0D
Output Resolution 480p (59.94Hz)	w24RATE\x0D
Output Resolution 480p (60Hz)	w25RATE\x0D
Output Resolution 576p (50Hz)	w26RATE\x0D
Output Resolution 640x480 (50Hz)	w10RATE\x0D
Output Resolution 640x480 (60Hz)	w11RATE\x0D
Output Resolution 720p (50Hz)	w32RATE\x0D
Output Resolution 720p (59.94Hz)	w33RATE\x0D
Output Resolution 720p (60Hz)	w34RATE\x0D
Output Resolution 800x600 (50Hz)	w12RATE\x0D
Output Resolution 800x600 (60Hz)	w13RATE\x0D
Output Resolution Auto	w00RATE\x0D
Playback Next	wN1PLYR\x0D
Playback Pause	wE1PLYR\x0D
Playback Play	wS1*1PLYR\x0D
Playback Previous	wP1PLYR\x0D
Playback Stop	w01PLYR\x0D
Power Mode Full Power	w0PSAV\x0D
Power Mode Low Power - Standby State	w1PSAV\x0D
Screen Saver Black Screen	wM1SSAV\x0D
Screen Saver Blue Screen with OSD Text	wM2SSAV\x0D
Screen Saver Custom color set via webpage	wM0SSAV\x0D
Standby Timer 0	wT0SSAV\x0D
Standby Timer 500	wT500SSAV\x0D
Test Patterns 4x4 Crosshatch	w5TEST\x0D
Test Patterns Alternating Lines	w3TEST\x0D
Test Patterns Alternating Pixels	w2TEST\x0D
Test Patterns Color Bars	w6TEST\x0D
Test Patterns Crosshatch	w4TEST\x0D
Test Patterns Grayscale	w7TEST\x0D
Test Patterns Off	w0TEST\x0D
Test Patterns Ramp	w8TEST\x0D

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# **Global Scripter Module Communication Sheet**

Test Patterns White Field	w9TEST\x0D
Video Mute Sync and Video Mute	2B
Video Mute Unmute	0B
Video Mute Video Mute	1B
Volume 0	0V
Volume -100	-100V

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### **Appendix B. Update Commands**

Aspect Ratio	w1ASPR\x0D
-	Z
Audio Mute	Z
Channel Preset Recall	Т
Closed Caption	wE1SUBT\x0D
Current Clip Length	wZ1PLYR\x0D
Current Directory	wCJ\x0D
Current Playlist Track	wL1PLYR\x0D
Current Source Item	wU1PLYR\x0D
Current Timecode	wK1PLYR\x0D
Input	!
Loop Play	wR1PLYR\x0D
Output Resolution	wRATE\x0D
Playback	wY1PLYR\x0D
Power Mode	wPSAV\x0D
Screen Saver	wMSSAV\x0D
Temperature	w20STAT\x0D
Test Patterns	wTEST\x0D
Video Mute	В
Volume	V