



# Appendix B: Display Parameters for the Digital Media Players

**Series 2 DMPs: DMP-2K and SV-4K**

**Series 3 DMPs: CV-HD and CV-UHD**

**Series 4 DMPs: CV-HD2 and CV-UHD2**

This module provides a summary of the display parameters that are supported by the digital media player for communication with TV displays.

## Display Parameters for HDMI CEC TV Control on DMPs

Table 1 on page 83 shows the display parameters used for HDMI/CEC TV control.

**Note:** The default values for the HDMI CEC display parameters are set in the HDMI/CEC Standard display specification.

**Table 1 Display Parameters for HDMI CEC TV Control**

Display Parameter	Default Value <sup>1</sup>	Description
dmp.hdmiStreamingDelay	5000	For HDMI Streaming operations issued through local control API. For HDMI Streaming operations initiated via IR Remote, this parameter prevents too frequent commands from crashing the DMP.
dmp.monitorAPIDelay	120000 ms (2 minutes)	Frequency of power query command sent by Dynamic Signage Director over HDMI CEC to the TV. (This command is also supported when using TV control with RS-232.)
dmp.monitorPower	true	Enables Dynamic Signage Director to run a power query to the TV using the <b>Get Status</b> command from Device Management. (This command is also supported when using TV control with RS-232.)
dmp.powerQueryByCEC	true	(New in Release 5.0) Enables powerQuery to get TV Power status using HDMI/CEC instead of RS-232. <b>Note:</b> This command is not supported by all TV models so it is separately configurable.
dmp.SupportsTouchScreen	true	Enables Dynamic Signage Director to support plugged-in devices configured to support touchscreen capability.
dmp.TVControlbyCEC	true	(New in Release 5.0) Enables TV control using HDMI/CEC instead of RS-232.

1. The default values are set in the HDMI/CEC Standard display specification.

## Display Parameter for Portrait Mode Content Renditions on DMPs

**Note:** Scaling of content across multiple display screens in portrait mode is only supported for multicast streaming video and static images.

**Table 2 DMP Display Parameters for Portrait Mode**

Display Parameter	Accepted Values	Default Value	Description
dmp.portrait	true/false	Not specified	Enables auto-rotation of content to vertical orientation on a TV display.
dmp.portrait.clockwise	true/false	Not specified	Enables content rotation of 90 degrees (portrait) or -90 degrees (270 degrees).

## Display Parameters for RS-232 TV Control on DMPs

Table 3 on page 85 shows a summary of the serial commands for the DMPs and their default values.

**Note:** Different TV display models might support only certain RS-232 display parameters.

**Table 3 DMP Display Parameters for RS-232 TV Control<sup>1</sup>**

Display Parameter	Value
dmp.displayAVInputQuery	rs232.tx_hex=6B622030312046460D
dmp.displayPwrOnResponse	61203031204f4b303178
dmp.displayPwrQuery	rs232.tx_hex=6B612030312046460D
dmp.hdmiStreamingDelay	5000
dmp.Input1response	62203031204F4B303878
dmp.Input2response	62203031204F4B303278
dmp.Input3response	62203031204F4B303478
dmp.Input4response	62203031204F4B303078
dmp.monitorAPIDelay	120000
dmp.monitorAVInput	true
dmp.monitorMute	true
dmp.monitorPower	true
dmp.monitorVolume	true
dmp.muteOnResponse	65203031204F4B303078
dmp.muteQuery	rs232.tx_6B652030312046460D
dmp.powerQueryByCEC	false
dmp.RelativeVolumeSteps	Not Configured
dmp.SerialDelay	250
dmp.SupportsTouchScreen	true
dmp.TVControlByCEC	true
dmp.volumeQuery	rs232.tx_6B662030312046460D
dmp.volumeResponseFormat	66203031204F4B5F5F78
Enable	Not Configured
Input1	rs232.tx_6B622030312030390D
Input1Name	HDMI
Input2	rs232.tx_6B622030312030320D
Input2Name	Composite
Input3	rs232.tx_6B622030312030340D
Input3Name	Component
Input4	rs232.tx_6B622030312030300D
Input4Name	TV
Mute	rs232.tx_hew=6B652030312030300D
MuteToggle	Not Configured
New serial command	Not Configured

## Display Parameters for RS-232 TV Control on DMPs

**Table 3 DMP Display Parameters for RS-232 TV Control<sup>1</sup> (continued)**

Display Parameter	Value
Off	rs232-tx_hex=6B612030312030300D
On	rs232-tx_hex=6B612030312030310D
UnMute	rs232-tx_hex=6B652030312030310D
Volume1	rs232-tx_hex=6B662030312030350D
Volume10	rs232-tx_hex=6B662030312035300D
Volume11	rs232-tx_hex=6B662030312035350D
Volume12	rs232-tx_hex=6B662030312036300D
Volume2	rs232-tx_hex=6B662030312031300D
Volume3	rs232-tx_hex=6B662030312031350D
Volume4	rs232-tx_hex=6B662030312032300D
Volume5	rs232-tx_hex=6B662030312032350D
Volume6	rs232-tx_hex=6B662030312033300D
Volume7	rs232-tx_hex=6B662030312033350D
Volume8	rs232-tx_hex=6B662030312034300D
Volume9	rs232-tx_hex=6B662030312034350D
VolumeCount	12

1. The commands in this table are supported by the LG 19LH20 TV display.

For more information about configuring display parameters for RS-232 TV control, see “Working with TV Displays in Cisco Vision Director” topic of the [Release 6.3: Cisco Vision Dynamic Signage Director Operations Guide](#).