

PRODUCT: MediaWall® V 4K/UHD DISPLAY PROCESSOR**TITLE: VERSION 2.1.2.0 (BUILD 14724) RELEASE NOTES**

DATE: 12 July 2017

NEW FEATURES

The Version 2.1.2.0 feature set is unchanged from Version 2.1.1.0.

NEW/CHANGED COMMANDS**Command-Line Interface (CLI)**

This firmware release supports the following, new CLI commands:

- Use the CLI **HDCPPERSist** command to have the MediaWall V retain the previously-negotiated HDCP encryption state. This minimizes wall output flashing that can occur when you recall a preset that includes HDCP content. The syntax for the command is **HDCPPERSist <HDMI output # | ALL> [ON | OFF]**. Without the optional **[ON | OFF]** argument, the command reports the current setting.

Note: This setting affects HDMI wall outputs only.

Example: To enable HDCP persistence on all HDMI wall outputs, type:

```
hdcpper all on
```

Default: ALL OFF

RESOLVED ISSUES

This firmware release resolves the following issues:

- Corrected issue that caused HDMI wall outputs to flash when you recall a preset that includes HDCP content. When **HDCPPERSist** is set to ON as described above, this no longer occurs. (5160)
- Corrected issue that caused a thin, black line to appear in a window that was set to fill the whole of a 2 × 2 wall when the output timing was 2048 × 1200 @75 Hz. (4851)
- Corrected issue that caused the **SETTINGSIMPORT** command to sometimes fail when the wall layout was changed subsequent to the previous **SETTINGSEXPORT** action. If, for example, you perform a **SETTINGSEXPORT**, change the wall layout from 4 × 3 to 2 × 3, then perform a **SETTINGSIMPORT**, the 4 × 3 wall layout is restored and all other settings import correctly. (3064)

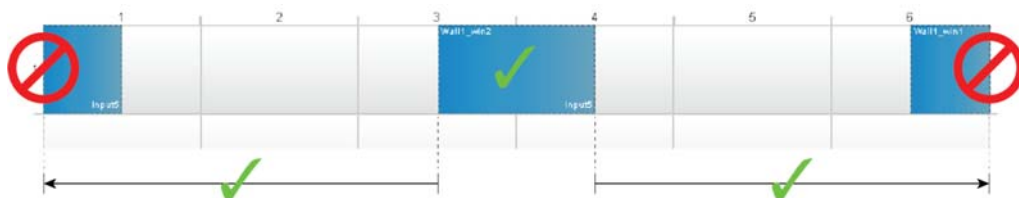
KNOWN ISSUES AND WORK-AROUNDS

4K/UHD Input/Output

- 4K/UHD input signals must use the RGB color space.
 - Using the *MediaWall V* Web Interface to change the size or position of a window may move it in front of other, overlapping windows. If this occurs, Use the **Priority** control to restore its original priority (z-order). (5442)
 - On occasion, after disabling and then re-enabling an input, the contents of a window displaying that input may appear corrupted. If this occurs, disable and re-enable the input again. (4276)
 - A monitor that is not HDCP-compliant may display flashing blue when HDCP-protected content is routed to it. (4163)
 - When the output timing is 4K/UHD @60 Hz, a bordered window cannot be horizontally positioned such that it is “clipped;” that is, partially beyond the left DOM output boundary. If you do this, the *MediaWall V* may draw the borders incorrectly. (4129)
- Column 1 (DOM #1, Output 1)



Output Timing: 3840 x 2160 @ 60Hz
- When the output timing is 4K/UHD @60 Hz, a single vertical line may appear in a window under certain conditions. If this occurs, move or re-size the window. (4117)
 - With 4K/UHD @60 Hz output timing, when disconnecting and re-connecting a display, the output signal may occasionally not be detected. (4107)
 - With 4K/UHD @30 Hz output timing, using the **Scale to Screen** or **WINDOWFullscreen** command may on occasion cause a vertical line pattern to appear in the window. If this occurs when window and/or input labels are enabled, disable and then re-enable the labels; otherwise, enable and then disable labels. (3866)
 - A UHD window containing a UHD source cannot be horizontally positioned such that it is “clipped;” that is, partially beyond the left or right WOM boundary (or wall boundary, in a multiple-wall system). When you attempt to do this, the *MediaWall V* replaces the source image on the wall with a yellow rectangle to indicate that this window placement is invalid. (3809, 3467)



KNOWN ISSUES AND WORK-AROUNDS (CONTINUED)

The exception to this rule is when the clip occurs precisely at the middle of the image. For example, if the destination rectangle is 1920 pixels wide and positioned such that the left half (exactly 960 pixels) is beyond the left WOM boundary or wall boundary, the right half of the image is visible:



- On occasion, changing the output timing from 2K/HD to 4K/UHD may cause the displays connected to Outputs 1, 7, 13 and/or 19 to flash continuously until the displays are power-cycled. (3471)

Window Settings and Adjustments

- Using the *MediaWall V* Web Interface to change the size or position of a window may move it in front of other, overlapping windows. If this occurs, Use the **Priority** control to restore its original priority (z-order). (5442)
- When using the *MediaWall V* Web Interface **Scale to Screen** command with Output Overlap enabled, the window may move off the wall. If this occurs, use the CLI **WINDOWFullscreen** command to scale a window to fill a wall display or the entire wall. (5227)
- The **WINDOWFRaMeADJust** command is currently supported for 2K/HD and 4K/UHD @30 Hz source windows only. With 4K/UHD sources, the **xoffset** argument has no effect but must be included. (4109, 3662, 3398)
- Zoom is currently supported for 2K/HD and 4K/UHD @30 Hz source windows only. (4108)
- The **WINDOWFullscreen** command may not work as expected with certain reduced-blanking output timings, such as 2560 x 1440 @60 Hz or 2560 x 1600 @60 Hz. (4097)
- On a *MediaWall V* Model 550, when you route an active source to all windows using the **WINDOWSouRCe <wall #> ALL [input #]** command, disable that source, then route another active source to all windows, the new source may not appear. If this occurs, route the new source to each window individually, or repeat the **WINDOWSouRCe <wall #> ALL [input #]** command. (4089)
- When you enable all windows using the **WINDOWENable <wall #> ALL ON** command, the *MediaWall V* automatically enables the window labels and input labels as well. Routing a new source to a window turns off the input label; moving a window turns off the window label. (4028)
- When you disable an input that is routed to a large number of windows (16 or more), it may take approximately 30 seconds to clear all windows displaying that input signal. (4005)
- Using the **WINDOWFullscreen** command to scale a window to fill a wall may on occasion cause a single vertical line to appear in the window. If this occurs, reduce the window size by a few pixels. (3978)
- When you disable all windows using the **WINDOWENable <wall #> ALL OFF** command, then enable all window or input labels using the **WindowLaBeLEnable <wall #> ALL <WINDOW | INPUT> ON** command, the labels appear even though the associated windows are disabled. This does not occur when you disable windows individually. (3874)

KNOWN ISSUES AND WORK-AROUNDS (CONTINUED)

- After allocating windows, setting a window's priority to 1 may not place it in front of all other windows as expected. If this occurs, reboot the *MediaWall V* after allocating windows. (3664)
- Routing an HD or UHD source to a very small window (for example, 640 × 360) may result in distorted text or other scaling artifacts. (3636)
- Under certain conditions, window and input labels do not appear following a power cycle to the *MediaWall V*. If this occurs, use the *MediaWall V* Web Interface to re-enable them. (3306)
- Horizontal (left/right) panning is currently supported for 2K/HD source windows only. (3271)
- The **GAMma**, **WINDowIDentify**, and **WINDowFreeZe** commands are not currently implemented. (3051, 3015, 2645)

Presets

- Presets created on a system running firmware version 2.0.0.0 or earlier are not compatible with firmware version 2.1.2.0. You must recreate your existing presets after updating to this version. (4886, 4570, 3844)
- In a *MediaWall V* Model 550 equipped with two or more Switched Output Modules, routing an input to all switched outputs by recalling a preset may fail on occasion. This behavior was observed when using Dell P2415Q displays. To correct the issue, do one or more of the following: (4775)
 - Recall the preset again;
 - Re-route the input to the displays showing no content; or
 - Power-cycle the displays showing no content.

DisplayPort Output Modules (DOMs)

- The DOM card currently supports 4K/UHD @30Hz and 4K/UHD @60 Hz output timings only.
- The DOM card currently supports non-HDCP (unprotected) content only. If the *MediaWall V* is equipped with one or more WOMs, you can use those wall outputs to display HDCP-protected content. (4151, 4150)
- When one or more DOM cards are present, the system must use the *MediaWall V* internal timing generator – not EDID – as its output timing reference. (4136)

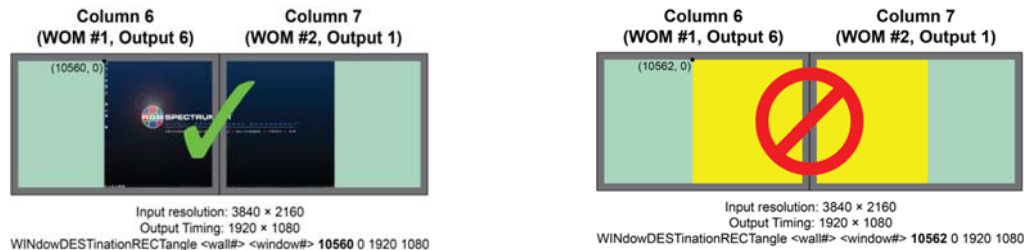
Long Walls

- On a long wall, a UHD window containing a UHD source cannot be horizontally positioned such that it straddles Outputs 6 and 7 (6 and 8 @ 4K/UHD output timing), Outputs 12 and 13 (12 and 14 @ 4K/UHD output timing), or Outputs 18 and 19 (18 and 20 @ 4K/UHD output timing). When you attempt to do this, the *MediaWall V* replaces the source image on the wall with a yellow rectangle to indicate that this window placement is invalid. (3809)



KNOWN ISSUES AND WORK-AROUNDS (CONTINUED)

The exception to this rule is when the straddle occurs precisely at the middle of the image. For example, if the destination rectangle is 1920 pixels wide and positioned such that the left half (exactly 960 pixels) is in Column 6 and the right half is in Column 7, both halves of the image are visible:



- Output Overlap is not supported on long walls. (3711, 3659)
- On a long wall, using the **Scale to Screen** or **WindowFullScreen** command to scale a bordered window to fill a wall may cause a single vertical line to appear in the window. If this occurs, reduce the border width by a few pixels. (3646)

Export/Import Settings

- When you import system settings using the **SETTINGSIMPORT SYSTEMSTATE** command, the *MediaWall V* reboots. To restore normal operation with the imported settings, you may need to reboot the system a second time. (4581)
- When you create a settings file that includes presets (using the **SETTINGSEXPORT** command), import the settings using the **SETTINGSIMPORT** command, then recall a preset containing state information for multiple walls, only Wall 1 updates to reflect what is defined in the preset. (3854)
- Exported settings files copied to the *MediaWall V* using FTP are retained after being imported using the **SETTINGSIMPORT** command. (3269)

Other Issues

- When connected to *MediaWall V* DisplayPort outputs, certain Dell and LG 4K displays will intermittently lose sync with the *MediaWall V* and either display distorted images, or go into sleep mode. If this occurs, do one or more of the following: (4083, 4074)
 - Use the **OutPutENable** command to disable and then re-enable all outputs;
 - Use the **OutPutTiMingLOAD** command or the *MediaWall V* Web Interface to re-load the output timing;
 - Power-cycle the monitor(s); or
 - Disconnect and then re-connect the monitor(s).
- With certain 1080p output timings, a source routed to a window spanning multiple rows may exhibit tearing or other visible artifacts. (3972)
- If an attempt to start decoding an IP video source (from the **Processor > IP Video** tab) fails for some reason, it may be necessary to restart the AP in order to start decoding other IP video sources. (3327)
- The X, Y, Width, and Height controls in the **Processor > Applications > Enter Application Details** dialog box are not currently implemented. (3270)

FIRMWARE UPDATE

Please refer to the *MediaWall V 4K/UHD Display Processor Technical Reference Guide* for detailed firmware update instructions. **RGB Spectrum recommends that you restore the factory-default settings to the system following the update.**

FIRMWARE, FPGA, AND MEDIAWALL V WEB INTERFACE (GUI) VERSIONS

Firmware	2.1.2.0_14724
Application Processor (AP)	1.3.0.0_5398 (unchanged from previous version)
FPGA	1.3.11 (Sync Gen; unchanged from previous version) 2.0.5 (Thumbnails; unchanged from previous version) 1.2.109 (PE; unchanged from previous version) 1.21.10 (Wall Output Module) 2.6.18 (DisplayPort Output Module; unchanged from previous version)
MediaWall V Web Interface	2.1.2.0_14724