CHRISTIE®

MAINTENANCE BULLETIN

Extending the Life of a MicroTiles Array

Applies to the Following Products	Prepared For
• MicroTiles	Internal and External Operators and Service Technicians External Customers

Reducing the light flux in the tile reduces the thermal load in the optics, which ultimately extends the life of the MicroTiles array. Upgrade the firmware or reset the brightness levels in all of the following scenarios:

- Initial set up of an array
- DAC values are nearing 252
- A replacement light engine is inserted into a wall
- When running in Tiles Only mode, one tile is noticeably dimmer than the others

Upgrade to Christie Microtiles v1.0.14 firmware

To extend the life of the Microtiles array, Christie recommends upgrading the array firmware to v1.0.14. With this version of the firmware, the canvas color and luminance settings automatically reduces the thermal load in the optics, helping the optics within the tiles to last longer.

Extend the life of the array by leaving the Brightness Limit value at 80%.

For instructions on upgrading the Microtiles firmware to version 1.0.14 or later, refer to *Christie Microtiles v1.0.14 Firmware Software Release Notes (020-100601-xx)*.

Reset the brightness levels on Firmware v1.0.13 or older

If the Microtiles array cannot be upgraded to version 1.0.14, extend the life of the array by configuring the color and luminance settings.

1. In the MicroTiles web user interface, select **Canvas Management > Canvas Settings > Color and Luminance**.

2. Set the Mode to **Maximum Brightness**.

   Leave the Color Matching setting On.

   The ECU calculates the maximum brightness of the weakest tile in the array. The value displayed in the Luminance field is the real-time nits displayed by the array as the page is refreshed.

3. It may take 15-20 minutes for the array to adjust to the maximum brightness. Click **Refresh** until the Luminance value stabilizes.

Record the stabilized Luminance value.

4. Reset the mode to **Fixed Brightness**, and set **Color Matching** to **On**.

5. Manually set the **Luminance** value to 80% of the brightness noted in step 3.

    With the LEDs only using 80% of the maximum brightness of the weakest tile, the life of the optics is extended.

Verify the canvas settings

> **i** For special applications or content requirements, brightness levels and color temperature other than the default 600 nits and 6500°K may be necessary.

1. In the MicroTiles web user interface, select **Canvas Management > Canvas Settings > Color and Luminance**.

2. Verify the Color and Luminance settings are set to the default values.

Setting	Default Value
Calibration Model	Version 2
Automatic Color Matching	ON
Mode	Fixed Brightness
Screen Model	S300/S310 screens
Luminance (nits)	600
Color Temperature	6500°K
Color Space	Maximum Gamut

3. Select **Canvas Management > Canvas Settings > Canvas Image Settings**.

4. Verify the Canvas Image settings are set to the default values.

Setting	Default Value
Mullion Reduction	OFF
Tile Uniformity	ON
Sharpness	50

Technical support

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