CHRISTIE

Technical Bulletin

Guidelines for installing and operating Core III LED

This bulletin provides guidelines for installing, operating, and the dehumidification process for Core III LED to enhance accuracy in installation and maintenance and reduce on-site failure risks.

Affected products

This bulletin applies to the following products:

- Core III LED

Installation, operational, dehumidification, and storage guidelines

Follow these guidelines to limit the risk of damaging the Core III LED modules in different operating environments.

Installation guidelines

To ensure proper operation and avoid damage to the equipment, follow these installation guidelines:

- If the environment is under construction or susceptible to uncontrolled changes in temperature or humidity, delay module installation until construction has been completed.
- If used in a portable, rental, or demo application, transport the modules in foam trays sealed in moisture-proof antistatic bags. A fresh desiccant pack should be placed inside each bag.
- Follow the dehumidification recommendations during each setup.
- Do not use chemicals or water to clean the surface of the display.
- Avoid direct sunlight/UV light on the screen.
- Do not blow cold air directly on the display as this could cause condensation to form on the surface of the modules and/or thermal stress which could damage the display equipment and void the warranty.
- Avoid storing, exposing, or operating Core III LED modules in an environment with excessive humidity as this may cause premature wear and void the warranty.

Daily use guidelines

To ensure optimal performance of the Core III LED modules, follow these guidelines:

- Power on Core III LED modules and operate them daily for a minimum of four hours each day.
- When daily use is not required and humidity is less than 60% RH, power on the modules at least three times a week and operate them for a minimum of four hours each time.

- When daily use is not required and humidity is above 60% RH, leave the system in Standby mode by setting the display on a red or white field at low brightness.

  To set the brightness:

  1. In the Christie or Novastar Controller software, select **Brightness**.

  2. Set the Brightness option to **13** (approximately 5%).

  3. Select **Save**.

  4. Return to the main interface.

  5. Select **Screen Control**.

  6. Select **White** from the Self list.

  7. Select **Send**.

Dehumidification process guidelines

The dehumidification process works by displaying content at a reduced brightness for a period of time, then transitioning to a higher brightness. This process slowly heats up the Core III LED module circuity and removes moisture within the LEDs. For details about the dehumidification process, see the *Performing the dehumidification process* (on page 2) topic.

The dehumidification process takes up to 24 hours to complete.

Christie recommends performing the dehumidification process when the Core III LED modules meet the following conditions:

- Installed for the first time.

- Exposed to a humid environment where humidity levels are greater than 60% RH, such as coastal areas that receive significant precipitation.

- Restarted after a period of not being used for more than two days in higher humidity environments or more than 10 days in lower humidity environments.

Storage guidelines

To ensure optimal performance of the Core III LED modules after storage, follow these guidelines:

- Store Core III LED modules indoors in a dry environment. Storage temperature range: -10 to 50 °C (14 to 122°F).

- Pack the Core III LED modules in foam trays and place them in sealed, moisture proof, anti-static bags. A fresh desiccant pack should be placed in each bag.

- Do not unpack or remove the Core III LED modules from their factory sealed bags until needed. If modules are stored prior to installation, they should remain in their packaging.

Performing the dehumidification process

The following procedure helps remove condensation from the Core III LED. The dehumidification process will be an automatic feature on a future system software upgrade release.

1. Connect the Controller to the LED wall.

2. Launch and log into Christie or Novastar Controller software.

3. From the main interface, select **Brightness** > **Auto Adjustment** > **Wizard Settings** > **Advanced Adjustment**.

4. Select **Next**.

5. Set the brightness grade (between 5 to 100%) and power on for two hours.

6. Return to the main interface.

7. Select **Screen Control**.

8. Select **White** from the Self list.

9. Select **Send**.

   The dehumidification process takes 24 hours to complete.

10. After 24 hours, if required, change the Brightness mode to **Manual adjustment**.

Technical support

Technical support for Christie Enterprise products is available at:

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