
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.

If Core III LED modules have been exposed to an environment with high humidity such as greater than 60% RH, the dehumidification process provided in this document can be used to reduce moisture within the LEDs. This process can help protect the Core III LED modules while extending their lifespan. 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 circuitry and removes moisture within the LEDs.

Affected products

This bulletin applies to the following products:

- Core II LED
- Core III LED
- VC Series LED
- VS Series LED

Installation guidelines

To limit the risk of damaging the Core III LED modules in different operating environment conditions, 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. Place a fresh desiccant pack inside each bag.
- 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.

When to perform the dehumidification process

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.

Performing the dehumidification process

The dehumidification process works by displaying content at a reduced brightness for a period of time, then transitioning to a higher brightness to help remove condensation from the Core III LED. The dehumidification process will be an automatic feature on a future system software upgrade release. To perform the dehumidification process manually using the Controller software, follow these steps.

The dehumidification process takes up to 24 hours to complete.

1. Connect the Controller to the LED wall.
2. Launch and log into Christie Controller software.
3. From the main interface, select **Brightness > Auto Adjustment > Wizard Settings > Advanced Adjustment**.
4. Select **Next**.
5. To add a scheduled setting, select **Add**.
6. In the Adjust the Time Setting dialog, set the following:
 - Starting Time—Determine the starting time (using the 24-hour clock) of the brightness level.
 - Adjust Type—Select **Specified**.
 - Brightness—Specify the brightness level as a percentage for the interval time.
7. To continue setting additional start times and brightness levels, select **OK**.
8. To enter the following starting times and brightness levels, repeat steps 6 and 7.

Start adjusting time	Adjustment method	Brightness (%)
01:00	Specified Brightness	5
03:00	Specified Brightness	8
05:00	Specified Brightness	10
07:00	Specified Brightness	15
09:00	Specified Brightness	20

Start adjusting time	Adjustment method	Brightness (%)
11:00	Specified Brightness	25
13:00	Specified Brightness	35
15:00	Specified Brightness	45
17:00	Specified Brightness	60
19:00	Specified Brightness	70
21:00	Specified Brightness	80
23:00	Specified Brightness	100

9. In the Brightness Adjustment dialog, select **Save**.

A message appears indicating the receiving card parameters were successfully saved.

10. Select **Finish**.

Once the scheduled settings are saved the scheduler runs on a 24-hour basis. The Controller must always remain powered on for the scheduler to run.



- The E510 Controller has additional programming features (for example, executing a scheduler based on the next time the Controller turns on) that permit application of cabinet dehumidification settings based on power events from the settings menu. These features are not available for the E600 Controller.
- Make sure the dehumidification schedule is turned off as it will run every day. If left on, the brightness levels follow the dehumidification schedule which is not wanted for normal operation

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. Place a fresh desiccant pack 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 must remain in their packaging.

Technical support

Technical support for Christie Enterprise products is available at:

- North and South America: +1-800-221-8025 or Support.Americas@christiedigital.com
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or Support.EMEA@christiedigital.com
- Asia Pacific (support.apac@christiedigital.com):
 - China: +86 10 6561 0240 or tech-supportChina@christiedigital.com
 - India: +91 (80) 6708 9999 or tech-India@christiedigital.com
 - Japan: 81-3-3599-7481
 - Singapore: +65 6877-8737 or tech-Singapore@christiedigital.com
 - South Korea: +82 2 702 1601 or tech-Korea@christiedigital.com