

Performing LiteLOC™ calibration for RGB projectors

This document provides a summary of the steps required to run LiteLOC™ calibration for the Christie RGB Cinema and 4K40-RGB projectors.

Affected products

The following products are affected.

CP2309-RGB	CP4330-RGB
CP2315-RGB	CP4440-RGB
CP2320-RGB	CP4450-RGB
CP4315-RGB	D4K40-RGB
CP4320-RGB	Mirage 4K40-RGB
CP4325-RGB	Roadie 4K40-RGB

Running LiteLOC™ calibration for CP4325-RGB and 4K40-RGB models

To run the LiteLOC™ calibration on the CP4325-RGB and 4K40-RGB models, follow the instructions below and the model-specific instruction sheets listed.

1. Replace the color sensor board (CSB).
2. If the CSB is replaced, perform a DAC calibration.
3. If the laser optical subsystem (LOS) and/or the CSB are replaced, make sure LiteLOC calibration is performed.
 - For the CP4325-RGB model, complete LiteLOC v1.0 calibration in the *Upgrading the color sensor board instruction sheet (P/N: 020-103100-XX)*.
 - For the 4K40-RGB models, complete LiteLOC v2.0 calibration. For details, refer to the *LiteLOC 2.0 Calibration Instruction Sheet (P/N: 020-103150-XX)*.

Running LiteLOC™ calibration for CP23XX-RGB and CP43XX-RGB projector models

If a color sensor board (CSBD) is replaced on a CP2309-RGB, CP2315-RGB, CP2320-RGB, CP4315-RGB, CP4320-RGB, or CP4330-RGB models, perform a DAC calibration and a LiteLOC™ calibration using a fixed command.

1. Replace the color sensor board (CSBD).
2. If the CSBD is replaced, perform a DAC calibration.
3. Instead of executing the full calibration process outlined in the instruction sheet, complete the following steps:
 - a) While connected to port 5000 open port 5103 using the command (CAL + PASS 1).
 - b) Connect to port 5103 to send one of the following commands:
 - CP2309-RGB
(RGB+CALB "0.001977" "0.00171" "0.002539" "0.934758" "0.943585"
"0.916229" 1)
 - CP2315-RGB/CP2320-RGB
(RGB+CALB "-0.000204" "-0.000801" "-0.002987" "1.006747" "1.026434"
"1.098585" 1)
 - CP4315-RGB
(RGB+CALB "0.001422" "0.001265" "0.000941" "0.953069" "0.958247"
"0.968950" 1)
 - CP4320-RGB
(RGB+CALB "0.001271" "0.001083" "0.000805" "0.958057" "0.964263"
"0.973426" 1)
 - CP4330-RGB
(RGB+CALB "0.001078" "0.000858" "0.000253" "0.964413" "0.971698"
"0.991660" 1)
 - c) Close Port 5103 by connecting to port 5000 and sending the command (CAL + PASS 0).
 - d) Reboot the projector.

Running LiteLOC™ calibration for CP4440-RGB and CP4450-RGB models

If a color sensor board (CSBD) is replaced on the CP440-RGB or CP4450-RGB models, perform a DAC calibration and a LiteLOC™ calibration using a fixed command.

CP4440-RGB and CP4450-RGB projectors running software version 1.4.x or higher may be running with LiteLOC v3 enabled.

1. To check if LiteLOC v3 is enabled, in the left navigation menu, select **Laser Settings > Laser Power/LiteLOC Setup**.
 - If individual RGB controls are visible, use the command(s) listed below.
 - If an individual power adjustment slider is visible, follow the instructions included in the *LiteLOC v3 Calibration Instruction Sheet (P/N: 020-103436-XX)*.

- You can determine the LiteLOC type in use by looking at the laser files in use. For details, refer to the *Brightness Degradation Troubleshooting Guide (P/N: 020-001917-XX)* or contact Christie Technical Support with a copy of your interrogator logs.
2. Replace the color sensor board (CSBD).
 3. If the CSBD is replaced, perform a DAC calibration.
 4. Instead of executing the full calibration process outlined in the instruction sheet, complete the following steps:
 - a) While connected to port 5000 open port 5103 using the command (CAL + PASS 1).
 - b) Connect to port 5103 to send one of the following commands:
 - CP4440-RGB
(RGB+CALB "0.001172" "0.001115" "0.002353" "0.961312" "0.963181"
"0.922344" 1)
 - CP4450-RGB
(RGB+CALB "0.00143625" "0.00132625" "0.0029175" "0.95254125"
"0.95621375" "0.9037775" 1)
 - c) Close Port 5103 by connecting to port 5000 and sending the command (CAL + PASS 0).
 - d) Reboot the projector.

Technical support

Technical support for Christie Cinema products is available at:

- Support.cinema@christiedigital.com
- +1-877-334-4267
- Christie Professional Services: +1-800-550-3061 or NOC@christiedigital.com

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)
 - Australia: +61 (0)7 3624 4888 or tech-Australia@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
- Christie Professional Services: +1-800-550-3061 or NOC@christiedigital.com