
Technical Bulletin

Managing security (FIPS) tamper events on Christie IMB-S2

This document provides information on improving the reliability of the Christie IMB-S2 by managing the power supply and reducing the potential for a security (Federal Information Processing Standards - FIPS) tamper event.

The IMB-S2 includes anti-tamper circuitry to ensure the security of protected content. The circuitry requires a constant power supply and a loss of power can register as a security (FIPS) tamper event that prevents the theft of content.

When power is removed from the IMB-S2, anti-tamper security is maintained by an internal rechargeable battery located under the security enclosure. If the internal battery is allowed to discharge completely, a FIPS tamper event is registered, causing deletion of the IMB-S2 security credentials. Loss of the security credentials also means the IMB-S2 device must be replaced.

Under certain conditions, the IMB-S2 can be prone to battery drainage when disconnected from projector power. It is important to minimize power drainage from the internal battery to reduce the risk of losing the security credentials.

Affected products

This bulletin applies to the following products.

- Christie IMB-S2 (P/N: 108-384107-XX)
- Christie CMB (P/N: 003-103110-XX)

Preventing battery drainage

To minimize battery drainage, the IMB-S2 should be connected to system power from the projector.

The IMB-S2 is prone to battery drainage under the following conditions:

- when installed in a projector that is powered off for an extended period
- when powered off with removal of the high security lid or marriage ring
- when uninstalled and stored for an extended period

If the internal battery is completely drained and the IMB-S2 is not running on system power, a security (FIPS) tamper event can be registered and result in the loss of security credentials.

Resolution

To reduce the risk of a security (FIPS) tamper event, follow these guidelines:

- Run the IMB-S2 on system power from the projector to prevent drainage of the internal battery:

- For Christie Solaria One, Solaria One+, CP2208, and CP2208-LP, run the projector in Standby mode. Under **Menu > Administrator Setup > Preferences**, select **IMB Powered in Standby Mode**.
- For other Christie projector models, keep the projector powered on (🔌) to provide system power to the IMB-S2.
- Ensure the high security lid and marriage ring remain in place if the IMB-S2 is not connected to system power.
- If the projector is powered off for an extended period, Christie recommends running the projector on full power for approximately three (3) hours every two to three days to ensure the battery in the IMB-S2 remains charged.

To resolve a tamper event, follow these steps:

1. If a tamper event occurs, keep the projector powered on (🔌) and maintain system power to the IMB-S2.
2. Determine the type of tamper event that has occurred:
 - If it is a service or marriage tamper event, ensure that the IMB-S2 is running on system power to prevent the battery from being continuously discharged. For a service tamper event, ensure that all security lids are in place and security switches are properly closed. For a marriage tamper event, follow the marriage procedure to re-marry the projector and clear the marriage tamper event.
 - If it is a security (FIPS) tamper event caused by a connection loss, the security credentials have been lost and the IMB-S2 must be replaced.

Technical support

Technical support for Christie 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
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