Technical Bulletin

Testing the X and Y sensors in a Crimson projector

This bulletin provides information on how to validate if the Crimson lens mount has faulty X and Y sensors.

If a faulty sensor is found, the lens can damage the light engine.

Affected products

The following products are affected:

- Crimson HD25
- Crimson WU25
- Mirage HD25
- Mirage WU25

Required tools

The following tools are required:

- Voltmeter
- 3 mm hex driver

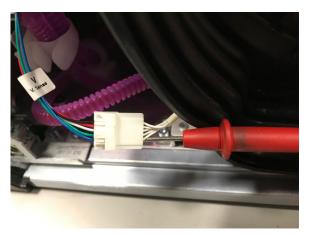
Testing the X and Y sensors

Follow these steps to test the X and Y sensors.

- 1. To ensure the lens mount adjustment can be performed while in standby mode, while the projector is on, ensure the **Electronics On in Standby** feature is enabled.
 - To enable the feature, select MENU > System Settings > Power Settings > Keep Electronics On in Standby.
- 2. Disconnect the projector from power.
- 3. Remove the lens.
- 4. Loosen the four captive screws securing the front cover.
- 5. Facing the front of the projector, locate the VSENSE harness to the left of the lens mount.
- 6. Track the routing of the VSENSE harness and remove it from the P-clip to allow for more slack in the cable when connecting the voltmeter.
- 7. Using the voltmeter, connect the positive probe to the white wire (pin 5) on the VSENSE harness.

The white wire leads to the blue wire on the sensor.





- 8. To connect to a ground point, hook the negative voltmeter probe to the projector's baseplate.
- 9. Turn on the projector and ensure it is in Standby mode.
- 10. Check the values on the voltmeter.
 - One of two expected values should be displayed: 3.3V +/- 10% (3.63 to 2.97) or a value less than 350mV. The value is based on the position of the lens mount.
- 11. Using the projector user interface, move the lens mount up and down until the voltmeter displays the opposite expected value.
 - If you see 3.3V +/- 10% (3.63 to 2.97) and the second value is less than 350mV, the sensor is functioning correctly. No further action is required.
 - If you do not see 3.3V +/- 10% (3.63 to 2.97) or your second value is not less than 350mV, you have a faulty sensor.
- 12. Repeat steps 10 and 11 for the horizontal sensor (HSENSE) located to the left of the lens mount, using the white to blue wire connection (as shown below).
 - The white wire is the positive wire. On the user interface, move the lens horizontally left and right.



- 13. Disable the **Electronics On in Standby** feature by selecting **MENU** > **System Settings** > **Power Settings** > **Keep Electronics On in Standby**.
- 14. If you have determined you have a faulty sensor:
 - If a Christie field technician, replace the sensor(s).
 - If a Christie customer, contact Technical Support to arrange for a replacement lens mount.

Technical support

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