
Technical Bulletin

Testing the X and Y sensors in a CP2315-RGB and CP2320-RGB projector

This bulletin provides information on how to validate if the CP2315-RGB and CP2320-RGB lens mount has faulty X and Y sensors.

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

Affected products

Projectors manufactured only between June 26 and September 2, 2019 are potentially affected.

- CP2315-RGB
- CP2320-RGB

To find the date the projector was manufactured, on the touch panel, tap **Status** > **System**. The manufactured date is displayed in the **Build Date** field as YYYY/MM/DD.

Required tools

The following tools are required:

- Voltmeter
- 3 mm hex driver

Testing the X and Y sensors

1. Disconnect the projector from power.
2. Remove the lens.
3. Loosen the four captive screws securing the front cover and remove it.
4. Facing the front of the projector, locate the VSENSE harness to the left of the lens mount.
5. Using the voltmeter, connect the positive probe to the grey wire (pin 5) on the VSENSE harness.

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



6. To connect to a ground point, hook the negative voltmeter probe to the projector's baseplate.
7. Turn on the projector and ensure it is in Standby mode.
8. 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.
9. 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. Proceed to step 10.
10. 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.
11. Repeat steps 1 to 10 for the horizontal sensor (HSENSE), using the yellow to blue wire connection (as shown below).
The yellow wire is the positive wire. On the user interface, move the lens horizontally left and right.



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
- Asia Pacific: +65 6877-8737 or Support.APAC@christiedigital.com
- Christie Managed Services: +1-800-550-3061 or NOC@christiedigital.com