

Technical Reference  
020-103327-17

# Christie TruLife+

Status System

**CHRISTIE®**



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Danger messages indicate a hazardous situation which, if not avoided, results in death or serious injury.



Warning messages indicate a hazardous situation which, if not avoided, could result in death or serious injury.



Caution messages indicate a hazardous situation which, if not avoided, could result in minor or moderate injury.



Notice messages indicate a hazardous situation which, if not avoided, may result in equipment or property damage.



Information messages provide additional information, emphasize or provide a useful tip.

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# Introduction

This guide contains information about the values and fault conditions that can be reported by the status system on Christie TruLife+ projectors.

## Models

This guide applies to the following models.

- Christie Eclipse Series
- Christie M RGB Series
- Griffyn® Series
- Sapphire® 4K40-RGBH

## What's new in the guide?

The following updates have been made to the guide.

### Illumination Group

- Moved the *Illuminator Group (SST+LGHT?)* (on page 53) to the end of the document.
- Added illumination group information for *Sapphire® 4K40-RGBH* (on page 58) and *Christie Eclipse G3* (on page 64).

## Accessing product documentation

For installation, user, and service information, see the product documentation available on the Christie website. Read all instructions before installing, using, or servicing this product.

1. Access the documentation from the Christie website:
  - Go to this URL: <http://bit.ly/3powZic> or <https://www.christiedigital.com/products/projectors/all-projectors/>.
  - Scan the QR code using a QR code reader app on a smartphone or tablet.



2. Select the projector series.
3. To access service information, sign into the Partner Portal.

4. On the product page, switch to the **Downloads** tab.

## Viewing Christie University product training videos

Christie University provides select product training videos that are helpful for understanding and using your product.

To view the available videos for your product:

1. Go to Christie University: <https://training.christiedigital.com>.
2. Select **I'm a Christie partner or customer**.
3. Log into your profile.
4. Select **Catalog**.
5. Select **Videos**.
6. Select **Product Training Videos**.
7. Navigate to the folder for your product.

## Technical support

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- Europe, Middle East, and Africa: +44 (0) 1189 778111 or [Support.EMEA@christiedigital.com](mailto:Support.EMEA@christiedigital.com)
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# Christie TruLife+ status system

The status system provides an overview of the device at the current point in time. It contains a number of groups, which contain a set of status items. Each status item represents a component or sub-component of the system. Obtain specific details regarding a warning or error for a status item using the log system.

The numbers next to the status items in this guide correspond directly to the status item index within each group.





## Status system states





The status system has three states to indicate the health of the device.

	OK	No known issue
	Warning	A problem with this item should be addressed.
	Error	A problem with this item prevents the system from properly displaying video or turning on the system.

## Configuration Group (SST+CONF?)

The Configuration group provides values and fault conditions for configuration-related items in Christie TruLife+.







#	Status	State	Value	Description
0	Projector Model		<projector model>	Displays the model for the Christie TruLife+ projector.  For Christie M 4K RGB series projectors, when operating in low-line voltage mode, <i>LLV</i> is appended to the projector model.
			Unknown	Cannot retrieve the model information.
			Jig Mode	Reserved for engineering use.
1	Projector S/N		<serial number>	Displays the serial number of the projector.


















#	Status	State	Value	Description
			Unknown	The storage device containing the information is inaccessible or the data on the device is corrupted.
2	Output Resolution		<horizontal>x<vertical>	Displays the native output resolution of the projector.
3	Projector Build Date		<YYYY>/<MM>/<DD>	Displays the build date of the projector.
			Unknown	The storage device containing the information is inaccessible or the data on the device is corrupted.

## System Group (SST+SYST?)



















The System group provides values and fault conditions relating to the system and its health for Christie TruLife+.
















### Christie M RGB Series, Griffyn® Series, and Sapphire® 4K40-RGBH System group status items

















#	Status	State	Value	Description
0	Projector Hours		<hours>:<minutes>	Displays the total amount of time the projector has been on (including warm up and cool down times).  This does not include the amount of time required to cool down the electronics when turning off the Keep Electronics on in Standby option while the projector is already in standby.
			N/A	Cannot retrieve or update the value.
1	Pitch/Roll		<pitch value>/<roll value>	Provides the physical orientation of the projector: <ul style="list-style-type: none"><li>• A negative pitch means the projector is pointing down.</li><li>• A negative roll means the projector is tilted counter clockwise as seen from the rear.</li></ul>
			Communication Fault	Information is not available due to a hardware fault.
5	Lens Motor Horizontal-Axis		Calibrating	Currently calibrating the lens motor.
6	Lens Motor Vertical-Axis		Calibrated	Properly calibrated the motor range.

















#	Status	State	Value	Description
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
7	Lens Motor Zoom- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Zoom Lens Motor Not Present	The lens does not have a zoom motor on it.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
8	Lens Motor Focus- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
9	Built-In Self Test		N/A	The built-in self test has not been executed yet.
			Passed	The built-in self test completed successfully.
			Failed	The built-in self-test failed.







































#	Status	State	Value	Description
10	System ID Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	Cannot communicate with the device.
			Invalid Data	The information on the device is missing or corrupted.
11	Housekeeping Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on. The projector remains on until AC power is removed, even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialization Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or it provided a bad response to a command while the projector is in standby mode.
12	Keypad Display		Auto Detect	The projector is attempting to detect the presence of the keypad display device.
			Programming	Programming the device with the correct firmware.
			OK	Properly detected and initialized the device.
			Detection Fault	Cannot detect the keypad display device.
			Unexpected Behavior	The device is not responding correctly.
			Upgrade Failed	The device failed to upgrade properly.
13	Power Supply		OK	Detected the power supply and the output stage is on.
			Off	The power supply output stage is off.












#	Status	State	Value	Description
			Unknown	Cannot determine the status of the power supply due to an upstream communication fault.
			Limited Mode	The power supply is running from low voltage input (120 V), if the projector can accept this input. <b>Only applies to:</b> Christie M 4K25 RGB, Christie M 4K+25 RGB Griffyn 4K35-RGB, and Griffyn 4K50-RGB
			Communication Fault	Cannot detect the power supply due to a communication failure.
			Failed	A non-catastrophic error occurred. See the logs for more information.
			Overtemperature	The power supply reports a High-Temp alarm but no fan failure is reported.
			Upgrade Failed	Failed to upgrade the power supply.
			Failed	A fatal power supply error occurred. See the logs for more information.
			AC Input Failure	The power supply suffered from an input failure.
			Limited Mode	The power supply is running from low voltage input (120 V) and is not permitted. <b>Only applies to:</b> Griffyn 4K32-RGB
27	Power Supply Input Voltage <b>Only applies to:</b> Griffyn 4K32-RGB		OK	The power supply input voltage is OK.
			AC Input Low	Displayed when the AC input is less than 180 VAC.
			AC Input Failure	Displayed when the AC input is less than 85 VAC or the power is completely lost.
27	Power Supply Inlet Voltage <b>Only applies to:</b> Christie M RGB Series, Griffyn 4K35-RGB, Griffyn 4K50-RGB, and Sapphire Sapphire 4K40-RGBH		<value>V	Displays the power supply input voltage. This value is typically 120 or 240 depending on the power feeding the projector.
29	Lens ID		Detected	Detected the lens. <b>Only applies to:</b> Griffyn Series
			<lens>	Displays the description of the lens detected. <b>Only applies to:</b> Christie M RGB Series

#	Status	State	Value	Description
			Unknown	Cannot determine the state of the lens as the communication path to the lens is not working.
			Not Detected	Cannot detect the lens.
30	Main Control Board		OK	The main control board has been initialized at least once and is known to be OK.
			Unknown	Cannot determine the main control board status because it has not been powered up.
			Initialization Fault	Cannot successfully program the main control board.
32	Power Supply Output Voltage		<value>V	Displays the output voltage from the power supply. This value is typically 54 V.
33	Power Supply 2 Output Voltage <b>Only applies to:</b> Griffyn 4K50-RGB and Sapphire 4K40-RGBH		<value>V	Displays the output voltage from the power supply. This value is typically 54 V.
46	Status LED Board		OK	The status of the status LED board (SLB) is OK.
			Unknown	Cannot determine the status of the status LED board (SLB) because the backpane (C4BP) is nonfunctional.
			Failed	Failed to detect limit switches and cannot detect shutter status. While power is on this is a warning state.
47	Side Panel NFCT <b>Only applies to:</b> Griffyn Series		OK	The side panel NFCT is OK.
			Unknown	The side panel NFCT status is unknown because the integrated keypad board (IKB) is non-functional.
			Not Detected	Cannot detect the side panel NFCT.
50	Formatter-Red		Off	The formatter is in standby without any cached errors or warnings.
51	Formatter-Green			
52	Formatter-Blue		OK	Properly detected and initialized the formatter.
			Unknown	Cannot determine the formatter status due to an upstream issue.




#	Status	State	Value	Description
			Power Bad	The formatter detected an unexpected power glitch and has started the process of parking the digital micromirror device (DMD). This is often recoverable.
			Detection Fault	Cannot read the formatter hardware.
			Initialization Fault	Cannot properly initialize the formatter.
			Runtime Fault	The formatter experienced an unrecoverable failure during runtime.
58	Shutter		OK	Detected the shutter and it is operating properly.
			Unknown	Cannot determine the status of the device.
			Failed	Failed to detect limit switches. Cannot detect shutter status. While the power is on, this is a warning state.
			Failed	Failed to detect limit switches. Cannot detect shutter status. When the power state is off, an error state prevents power up.
96	Power Supply Output Current		<value>A	Displays the output current from the power supply. This value depends on the current drawn from the supply and is informational only.
97	Power Supply 2 Output Current <b>Only applies to:</b> Griffyn 4K50-RGB and Sapphire 4K40-RGBH		1.20A	Displays the output current from the power supply. This value depends on the current drawn from the supply and is informational only.
100	Rotating Diffuser		<value> RPM	The diffuser is spinning at more than 500 RPM.
			Off	The diffuser is off.
			Unknown	Displayed if the housekeeping board is not yet initialized.
			<value> RPM - Low RPM	The diffuser is spinning less than 500 RPM but more than 100 RPM.
			Failed	The diffuser is spinning at less than 100 RPM.
144	Photon Module		OK	The module is working properly.
















#	Status	State	Value	Description
			Unknown	Displayed if the housekeeping board is not yet initialized.
			Communication Fault	Lost communication with the module after the module has been detected.
			Programming	Upgrading the photon software.
			Detection Fault	Cannot establish communication with the photon module after system start up.
			Upgrade Failed	The upgrade failed.
145	Variable Option Module Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on.  The projector remains on until the AC power is removed even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialize Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the projector is in Standby mode.
204	Power Supply Board <b>Only applies to:</b> Christie M RGB Series		OK	The status of the power supply board is OK.
			Unknown	Cannot determine the status of the power supply board.
			Detection Fault	Cannot detect the power supply.
			Initialization Fault	Cannot initialize the power supply board.
207	SSPWBD <b>Only applies to:</b> Christie M RGB Series		OK	The status of the SSPWBD board is OK.
			Unknown	Cannot determine the status of the SSPWBD board.
			Detection Fault	Cannot detect the SSPWBD board.

#	Status	State	Value	Description
208	Actuator Status <b>Only applies to:</b> Christie M RGB Series		OK	The status of the actuator is OK.
			Unknown	Cannot determine the status of the actuator.
			<error code>	The actuator is reporting an error code (non-zero value).
209	Actuator RMS <b>Only applies to:</b> Christie M RGB Series		Unknown	Cannot determine the status of the actuator.
			< 5%	Reports an error quantity for the actuator.
			> 5%	Error quantity for the actuator exceeds the 5% limit.
210	Power Supply 2 <b>Only applies to:</b> Griffyn 4K50-RGB and Sapphire 4K40-RGBH		OK	Detected the power supply and the output stage is on.
			Off	The power supply output stage is off.
			Unknown	Cannot determine the status of the power supply due to an upstream communication fault.
			Limited Mode	The power supply is running from low voltage input (120V), if the projector can accept this input.
			Communication Fault	Cannot detect the power supply due to a communication failure.
			Failed	A non-catastrophic error occurred. See the logs for more information.
			Overtemperature	The power supply reports a High-Temp alarm but no fan failure is reported.
			Upgrade Failed	Failed to upgrade the power supply.
			Failed	A fatal power supply error occurred. See the logs for more information.
			AC Input Failure	The power supply suffered from an input failure.
211	Power Supply 2 Inlet Voltage <b>Only applies to:</b> Griffyn 4K50-RGB and Sapphire 4K40-RGBH		<value>V	Displays the power supply input voltage. This value is typically 120 or 240 depending on the power feeding the projector.
				

















#	Status	State	Value	Description
217	E-convergence to Light Engine Sync <b>Only applies to:</b> Christie M RGB Series		OK	Light engine has valid electronic convergence settings.
			Unknown	Cannot determine the status of the light engine.
			Out of Sync - New convergence required	Detected a light engine replacement. Rerun electronic convergence and save the settings factory defaults.
218	Phosphor Wheel 1		x-RPM	Reports the speed of the wheel (RPM).
219	Phosphor Wheel 2 <b>Only applies to:</b> Sapphire 4K40-RGBH		Off	The phosphor wheel is off.
			Unknown	Cannot determine the status of the phosphor wheel.
			Wheel Stall	Displays if the phosphor wheel stopped spinning.
			x-RPM (unlocked)	Displays if the phosphor wheel is free running.
222	Optical Filter <b>Only applies to:</b> Sapphire 4K40-RGBH		Filter Type	Displays the type of filter detected.
			Not Detected	No optical filter is installed.
			Unknown	Cannot read or recognize the filter ID from the optical filter board.

### Christie Eclipse G3 System group status items


















#	Status	State	Value	Description
0	Projector Hours		<hours>:<minutes>	Displays the total amount of time the projector has been on (including warm up and cool down times).  This does not include the amount of time required to cool down the electronics when turning off the Keep Electronics on in Standby option while the projector is already in standby.
			N/A	Cannot retrieve or update the value.
1	Pitch/Roll		<pitch value>/<roll value>	Provides the physical orientation of the projector: <ul style="list-style-type: none"><li>• A negative pitch means the projector is pointing down.</li></ul>



















#	Status	State	Value	Description
				<ul style="list-style-type: none"> <li>A negative roll means the projector is tilted counter clockwise as seen from the rear.</li> </ul>
			Communication Fault	Information is not available due to a hardware fault.
5	Lens Motor Horizontal-Axis		Calibrating	Currently calibrating the lens motor.
6	Lens Motor Vertical-Axis		Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
7	Lens Motor Zoom- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Zoom Lens Motor Not Present	The lens does not have a zoom motor on it.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
8	Lens Motor Focus- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
































#	Status	State	Value	Description
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
9	Built-In Self Test		N/A	The built-in self test has not been executed yet.
			Passed	The built-in self test completed successfully.
			Failed	The built-in self-test failed.
10	System ID Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	Cannot communicate with the device.
			Invalid Data	The information on the device is missing or corrupted.
11	Housekeeping Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on. The projector remains on until AC power is removed, even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialization Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or it provided a bad response to a command while the projector is in standby mode.
12	Keypad Display		Auto Detect	The projector is attempting to detect the presence of the keypad display device.

#	Status	State	Value	Description
			Programming	Programming the device with the correct firmware.
			OK	Properly detected and initialized the device.
			Detection Fault	Cannot detect the keypad display device.
			Unexpected Behavior	The device is not responding correctly.
			Upgrade Failed	The device failed to upgrade properly.
13	Power Supply		OK	Detected the power supply and the output stage is on.
			Unknown	Cannot determine the status of the power supply due to an upstream communication fault.
			Fan Problem	The power supply reports fan failure but no over temperature shutdown or high temperature alarm is reported.
			Overtemperature	The power supply reports a High-Temp alarm but no fan failure is reported.
			Overtemperature/Fan Problem	The power supply reports both a High-Temp alarm and fan failure.
			Detection Fault	Communication timed out at startup
			Communication Fault	Communication timed out or there was an error in the transmission/reception of data.
			Overvoltage Detected	The power supply reports over voltage shutdown condition.
			Overcurrent Detected	The power supply reports over current shutdown condition.
			Overtemperature	The power supply reports over temperature shutdown.
			Overtemperature / Fan Problem	The power supply reports over temperature shutdown and fan failure.
			Control Fault	The power supply reports internal circuit failure.
			AC Input Low	The power supply reports AC input is too low for full power mode.
			AC Input Failure	The power supply input has experienced a failure.




#	Status	State	Value	Description
27	Power Supply 1 Inlet Voltage		<value>V	Displays the power supply input voltage. This value is typically be 120 or 240 depending on the power feeding the projector.
29	Lens ID		Detected	Detected the lens.
			Unknown	The communication path to the lens is not working so the state is unknown.
			Not Detected	Cannot detect the lens.
30	Main Control Board		OK	The main control board has been initialized at least once and is known to be OK.
			Unknown	Cannot determine the main control board status because it has not been powered up.
			Initialization Fault	Cannot successfully program the main control board.
32	Power Supply Output Voltage		<value>V	Displays the output voltage from the power supply. This value is typically 54 V.
33	Power Supply 2 Output Voltage			
46	Status LED Board		OK	The status of the status LED board (SLB) is OK.
			Unknown	Cannot determine the status of the status LED board (SLB) because the backpane (C4BP) is nonfunctional.
			Communication Fault	Cannot communicate with the status LED board (SLB).
50	Formatter-Red		Off	The formatter is in standby without any cached errors or warnings.
51	Formatter-Green			
52	Formatter-Blue		OK	Properly detected and initialized the formatter.
			Unknown	Cannot determine the formatter status due to an upstream issue.
			Power Bad	The formatter detected an unexpected power glitch and has started the process of parking the DMD. This is often recoverable.
			Detection Fault	Cannot read the formatter hardware.
			Initialization Fault	Cannot properly initialize the formatter.
















#	Status	State	Value	Description
			Runtime Fault	The formatter experienced an unrecoverable failure during runtime.
58	Shutter		OK	Detected the shutter and it is operating properly.
			Unknown	Cannot detect the shutter.
			Failed	Failed to detect limit switches. Cannot detect shutter status. When the power state is off, an error state prevents power up.
88	Calibration		OK	Properly calibrated the projector.
			Uncalibrated	Cannot properly calibrate the projector.
96 97	Power Supply 1 Output Current Power Supply 2 Output Current		<value>A	Displays the power supply output current. This value depends on the current drawn from the power supply and is informational only.
100	Rotating Diffuser		<value> RPM	Diffuser is spinning at more than 500 RPM.
			Off	Diffuser is off.
			Unknown	Displayed if the housekeeping board is not initialized yet.
			<value> RPM - Low RPM	Diffuser is spinning at less than 500 RPM but more than 100 RPM.
			Failed	Diffuser is spinning at less than 100 RPM.
115 116 117	Premod Formatter-Red Premod Formatter-Green Premod Formatter-Blue		Off	The formatter is in standby without any cached errors or warnings.
			OK	Properly detected and initialized the formatter.
			Unknown	Cannot determine the formatter status due to an upstream issue.
			Power Bad	The formatter detected an unexpected power glitch and has started the process of parking the DMD. This is often recoverable.
			Detection Fault	Cannot read the formatter hardware.
			Initialization Fault	Cannot properly initialize the formatter.




#	Status	State	Value	Description
			Runtime Fault	The formatter experienced an unrecoverable failure during runtime.
144	Photon Module		OK	The photon module is working properly.
			Unknown	Displayed if an issue occurs with initializing the housekeeping board.
			Programming	Photon module is currently being programmed.
			Communication Fault	Communication lost with the module after the module has been detected.
			Upgrade Failed	The photon module failed to upgrade.
			Detection Fault	Cannot establish communication with the module after system start up.
145	Variable Option Module Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on. The projector remains on until the AC power is removed even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialize Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the projector is in Standby mode.
210	Power Supply 2		OK	Properly detected the power supply and the output stage is on.
			Off	The power supply output stage is off.
			Unknown	Cannot determine the status of the power supply due to an upstream communication fault.
			Limited Mode	The power supply is running from low voltage input (120V). This option is only displayed if the projector can accept this input,

#	Status	State	Value	Description
			Communication Fault	Cannot detect the power supply or a communication failure occurred.
			Overtemperature	The power supply reports a High-Temp alarm but no fan failure is reported.
			Failed	A non-catastrophic error occurred. See the logs for more information.
			AC Input Low	The power supply is running from low voltage input (120V). This option depends on the projector.
			Upgrade Failed	The power supply upgrade failed.
			Failed	Fatal power supply error occurred. See the logs for more information.
			AC Input Failure	The power supply suffered from an input failure.
211	Power Supply 2 Inlet Voltage		<value>V	Displays the power supply input voltage. This value would typically be 120 or 240 depending on the power feeding the projector.
226	Calibration Date		<YYYY>/<MM>/<DD> HH:MM	Displays the last date and time when the projector was calibrated.
			Unknown	Indicates the projector has not been calibrated.
227	Calibration Name		<Name>	Displays the given name of the last calibration.
			Unknown	Indicates the projector has not been calibrated.



### Christie Eclipse System group status items



















#	Status	State	Value	Description
0	Projector Hours		<hours>:<minutes>	Displays the total amount of time the projector has been on (including warm up and cool down times).  This does not include the amount of time required to cool down the electronics when turning off the Keep Electronics on in Standby option while the projector is already in standby.
			N/A	Cannot retrieve or update the value.
1	Pitch/Roll		<pitch value>/<roll value>	Provides the physical orientation of the projector:


















#	Status	State	Value	Description
				<ul style="list-style-type: none"> <li>• A negative pitch means the projector is pointing down.</li> <li>• A negative roll means the projector is tilted counter clockwise as seen from the rear.</li> </ul>
			Communication Fault	Information is not available due to a hardware fault.
5	Lens Motor Horizontal-Axis		Calibrating	Currently calibrating the lens motor.
6	Lens Motor Vertical-Axis		Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
7	Lens Motor Zoom- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.
			Zoom Lens Motor Not Present	The lens does not have a zoom motor on it.
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
8	Lens Motor Focus- Axis		Calibrating	Currently calibrating the lens motor.
			Calibrated	Properly calibrated the motor range.
			Unknown	The status of the motor is unknown because a problem occurred in the upstream communication path.





#	Status	State	Value	Description
			Uncalibrated	The range for the current lens has not been determined and/or the reported position on the axis may be inaccurate.
			Failed	During reset or calibration, an error was detected related to the motor and/or sensor.
9	Built-In Self Test		N/A	The built-in self test has not been executed yet.
			Passed	The built-in self test completed successfully.
			Failed	The built-in self-test failed.
10	System ID Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	Cannot communicate with the device.
			Invalid Data	The information on the device is missing or corrupted.
11	Housekeeping Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on. The projector remains on until AC power is removed, even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialization Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or it provided a bad response to a command while the projector is in standby mode.
12	Keypad Display		Auto Detect	The projector is attempting to detect the presence of the keypad display device.
			Programming	Programming the device with the correct firmware.



#	Status	State	Value	Description
			OK	Properly detected and initialized the device.
			Detection Fault	Cannot detect the keypad display device.
			Unexpected Behavior	The device is not responding correctly.
			Upgrade Failed	The device failed to upgrade properly.
13	Power Supply		OK	Detected the power supply and the output stage is on.
			Unknown	Cannot determine the status of the power supply due to an upstream communication fault.
			Fan Problem	The power supply reports fan failure but no over temperature shutdown or high temperature alarm is reported.
			Overtemperature	The power supply reports a High-Temp alarm but no fan failure is reported.
			Overtemperature/Fan Problem	The power supply reports both a High-Temp alarm and fan failure.
			Detection Fault	Communication timed out at startup
			Communication Fault	Communication timed out or there was an error in the transmission/reception of data.
			Overvoltage Detected	The power supply reports over voltage shutdown condition.
			Overcurrent Detected	The power supply reports over current shutdown condition.
			Overtemperature	The power supply reports over temperature shutdown.
			Overtemperature / Fan Problem	The power supply reports over temperature shutdown and fan failure.
			Control Fault	The power supply reports internal circuit failure.
			AC Input Low	The power supply reports AC input is too low for full power mode.
			AC Input Failure	The power supply input has experienced a failure.
30	Main Control Board		OK	The main control board has been initialized at least once and is known to be OK.

#	Status	State	Value	Description
			Unknown	Cannot determine the main control board status because it has not been powered up.
			Initialization Fault	Cannot successfully program the main control board.
32	Power Supply Output Voltage		<value>V	Displays the output voltage from the power supply. This value is typically 54 V.
			Unknown	Indicates the housekeeping board is not initialized.
46	Status LED Board		OK	The status of the status LED board (SLB) is OK.
			Unknown	Cannot determine the status of the status LED board (SLB) because the backpane (C4BP) is nonfunctional.
			Communication Fault	Cannot communicate with the status LED board (SLB).
47	Side Panel NFCT		OK	The side panel NFCT is OK.
			Unknown	The side panel NFCT status is unknown because the IKB is non-functional.
			Not Detected	The side panel NFCT could not be written to or read from.
50	Formatter-Red		Off	The formatter is in standby without any cached errors or warnings.
51	Formatter-Green			
52	Formatter-Blue		OK	Properly detected and initialized the formatter.
			Unknown	Cannot determine the formatter status due to an upstream issue.
			Power Bad	The formatter detected an unexpected power glitch and has started the process of parking the DMD. This is often recoverable.
			Detection Fault	Cannot read the formatter hardware.
			Initialization Fault	Cannot properly initialize the formatter.
			Runtime Fault	The formatter experienced an unrecoverable failure during runtime.
58	Shutter		OK	Detected the shutter and it is operating properly.

#	Status	State	Value	Description
			Unknown	Cannot detect the shutter.
			Failed	Failed to detect limit switches. Cannot detect shutter status. When the power state is off, an error state prevents power up.
85	Color Sensor Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.
			Communication Fault	Cannot communicate with the color sensor board.
			Detection Fault	Cannot detect the color sensor board.
			Initialization Fault	Cannot properly initialize the color sensor board.
88	Calibration		OK	Properly calibrated the projector.
			Uncalibrated	Cannot properly calibrate the projector.
115	Premod Formatter-Red		Off	The formatter is in standby without any cached errors or warnings.
116	Premod Formatter-Green		OK	Properly detected and initialized the formatter.
117	Premod Formatter-Blue		Unknown	Cannot determine the formatter status due to an upstream issue.
			Power Bad	The formatter detected an unexpected power glitch and has started the process of parking the DMD. This is often recoverable.
			Detection Fault	Cannot read the formatter hardware.
			Initialization Fault	Cannot properly initialize the formatter.
			Runtime Fault	The formatter experienced an unrecoverable failure during runtime.
145	Variable Option Module Board		OK	Properly detected and initialized the device.
			Unknown	Cannot determine the status of the device.

#	Status	State	Value	Description
			Communication Fault	The device failed to respond or provided a bad response to a command while the light source is on.  The projector remains on until the AC power is removed even if this warning condition is fixed.
			Detection Fault	Cannot read the device hardware information.
			Initialize Fault	Cannot properly initialize the device.
			Communication Fault	The device failed to respond or provided a bad response to a command while the projector is in Standby mode.

## Signal Group (SST+SIGN?)

The Signal group provides values and fault conditions relating to the video signal status for Christie TruLife+.

### Signal status items

The following signal results can be displayed for the video format status items (SST+SIGN?50XX) in the sections below:

Status	Description
No signal	Cannot detect a signal at input.
Good signal	Detects a valid signal and feeding video pipe.
Inactive	Detects a signal but is not feeding video pipe (mode does not require this signal).
Unlocked	Cannot lock signal feeding secondary pipeline to signal on primary pipeline.
Bad signal	Detects an invalid signal.
No payload ID	Presents a warning status for SDI inputs if no payload ID is provided.

### Example:





```
(SST+SIGN?5001)
(SST+SIGN!5001 000 "HDMI, 1920x1080 @ 60.00Hz (Good signal)" "Input 1")
```

## Christie Eclipse G3, Christie M RGB Series, Griffyn<sup>®</sup> Series, and Sapphire<sup>®</sup> 4K40-RGBH

### Signal group status items













#	Status	State	Value	Description
50	Output Frequency		N/A	No video is being displayed.








#	Status	State	Value	Description
			<rate>Hz	Where <rate> : the output frame rate, in Hertz
51	Frame Locked		N/A	No video is being displayed or an internal test pattern is being displayed.
			Locked	The output is locked to the selected input(s).
			Unlocked	The output is not locked to the selected input(s).
52	3D Sync		N/A	There is no 3D signal or 3D mode is set to Off.
			Valid 3D Sync	Detected a valid external 3D synch.
			Internal 3D Sync	The system is using the internal v-sync signal because the video is configured as a Dual-Input. External synch is ignored.
			Valid HDMI 3D Sync	Properly detected built-in HDMI 3D sync signal.
			Invalid 3D Sync (using internal sync)	Detected an external 3D sync but it is not locked and/or in phase with the 3D video signal(s). The system uses the internal v-sync signal instead but may have L/R swapped.
			No 3D Sync (using internal sync)	No external 3D sync is detected. The system uses the internal v-sync signal instead but may have L/R swapped.
53	SDVoE Connection		N/A	SDVoE is not connected to the projector.
			<alias IP>	Displays the alias IP address of the SDVoE used to communicate with the projector over the SDVoE network.
54	3D Darktime Status		Achieved	3D content is being displayed and the dark time request is within the sequence limits.
			N/A	3D content was not received or the projector is off.
			Not Achieved	3D content is being displayed and the dark time request is out of the sequence limits. The displayed content will not be correct and will show artifacts.
5001	HDMI Port 1		N/A	The projector is in standby and the video path is not active.

#	Status	State	Value	Description
5002	HDMI Port 2		<input type>, (No Signal)	No signal is detected.
5003	SDI Port 1			Where <input type> : { HDMI, DP, SDI, VOM }
5004	SDI Port 2		<input type>, <active window>@ <v-sync rate> (<status>)	Where
5005	SDI Port 3			<input type> : { HDMI, DP, SDI, VOM }
5006	SDI Port 4			<active window> :
5007	DP Port 1			<columns>x<rows>
5008	DP Port 2			<v-sync rate> : the input frame rate, in Hz (##.##Hz)
5010	CVOF Port 1			<status> : { "Good signal", "Inactive" }
5011	CVOF Port 2			
5012	CVOF Port 3			
5013	CVOF Port 4		<input type> <active window> @ <v-sync rate> (<status>)	Where
5014	SDVoE Port			<input type> : { HDMI, DP, SDI, VOM }
5017	HDMI Port 3			<active window> :
5018	DP Port 3			<columns>x<rows>
5019	DP Port 4			<v-sync rate> : the input frame rate, in Hz (##.##Hz)
				<status> : { "Unlocked", "Bad signal" }
5020	ChristieLink-1		N/A	Port is off (projector powered down, LED is off).
5021	ChristieLink-2		Ready for plug-in	Christie Link is ready to be plugged in (LED is off).
			Waiting on peer	Christie Link is waiting on the other side of the connection (LED is yellow).
			Link established	Christie Link connection is established (LED is white).
			Transmitting video	Christie Link is transmitting video (LED is blue).
			Receiving video	Christie Link is receiving video (LED is green).
			Incoming video ignored	Video ignored (LED is red).

### Christie Eclipse Signal group status items

#	Status	State	Value	Description
50	Output Frequency		N/A	No video is being displayed.




#	Status	State	Value	Description
			<rate>Hz	Where <rate> : the output frame rate, in Hertz
51	Frame Locked		N/A	No video is being displayed or an internal test pattern is being displayed.
			Locked	The output is locked to the selected input(s).
			Unlocked	The output is not locked to the selected input(s).
53	SDVoE Connection		N/A	SDVoE is not connected to the projector.
			<alias IP>	Displays the alias IP address of the SDVoE used to communicate with the projector over the SDVoE network.
54	3D Darktime Status		Achieved	3D content is being displayed and the dark time request is within the sequence limits.
			N/A	3D content was not received or the projector is off.
			Not Achieved	3D content is being displayed and the dark time request is out of the sequence limits. The displayed content will not be correct and will show artifacts.
5001	HDMI Port 1		N/A	The projector is in standby and the video path is not active.
5002	HDMI Port 2			
5003	SDI Port 1		<input type>, (No Signal)	No signal is detected.
5004	SDI Port 2			Where <input type> : { HDMI, DP, SDI, VOM }
5005	SDI Port 3		<input type>, <active window>@ <v-sync rate> (<status>)	Where
5006	SDI Port 4			<input type> : { HDMI, DP, SDI, VOM }
5007	DP Port 1			<active window> :
5008	DP Port 2			<columns>x<rows>
5010	CVOF Port 1			<v-sync rate> : the input frame rate, in Hz (##.##Hz)
5011	CVOF Port 2			<status> : { "Good signal", "Inactive" }
5012	CVOF Port 3			
5013	CVOF Port 4			
5014	SDVoE Port			
			<input type> <active window> @ <v-sync rate> (<status>)	Where <input type> : { HDMI, DP, SDI, VOM }

#	Status	State	Value	Description
				<active window> : <columns>x<rows>  <v-sync rate> : the input frame rate, in Hz (##.##Hz)  <status> : { "Unlocked", "Bad signal" }
5017	ChristieLink-1		N/A	Port is off (projector powered down, LED is off).
5018	ChristieLink-2		Ready for plug-in	Christie Link is ready to be plugged in (LED is off).
			Waiting on peer	Christie Link is waiting on the other side of the connection (LED is yellow).
			Link established	Christie Link connection is established (LED is white).
			Transmitting video	Christie Link is transmitting video (LED is blue).
			Receiving video	Christie Link is receiving video (LED is green).
			Incoming video ignored	Video ignored (LED is red).










## Version Group (SST+VERS?)






The Version group provides values and fault conditions related to software and hardware versions for Christie TruLife+.



### Christie M RGB Series, Griffyn® Series, and Sapphire® 4K40-RGBH Version group status Items

#	Status	State	Value	Description
0	Main Control Board SW Version		<version>	Displays the software version running on the main control board.
			Unknown	Cannot determine the software version information.
1	Main Control Board HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board













#	Status	State	Value	Description
			Detection Fault	Failed to read the board type information.
4	Formatter-Red HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board This information is cached while the projector is in standby.
5	Formatter-Green HW Version			
6	Formatter-Blue HW Version			
			N/A	The formatter has never been turned on or initialized.
17	Power Supply HW Version		<model>.<version>.<name>	The version information of the 48V power supply.
			Unknown	Cannot retrieve the hardware version. Displayed if the housekeeping board is not yet initialized.
18	Housekeeping Board HW Version		<name>.<level>.<mod>	<name> = Name of the board (such as HKBC) <level> = Hardware version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version.
19	Keypad Display HW Version		<name>.<level>.<mod>	<name> = Name of the board (such as IKB) <level> = Hardware version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.
59	Photon SW Version		<major>.<minor>.<mod>-<Rev>(Boot)/ <major>.<minor>.<mod>-<Rev>(Main)	Displays the Photon bootloader software version and Photon Main firmware software version.
			Unknown	Cannot communicate with the Photon module or programming firmware.

#	Status	State	Value	Description
68	Variable Option Module HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.
69	BIOS SW Version		<version>	Displays the BIOS software version.
71	Power Supply HW Version <b>Only applies to:</b> Christie M RGB Series		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.
72	SSPWBD SW Version <b>Only applies to:</b> Christie M RGB Series		<major>.<minor>.<mod>	Displays the SSPWBD software version.
			Unknown	Cannot communicate with the SSPWBD module or programming firmware.
			<major>.<minor>.<mod>	Displays the SSPWBD software version but it is not the expected release version.
			Programming	The SSPWBD software is currently being upgraded.
			Upgrade Failed	The SSPWBD software upgrade failed.
			Communication Fault	Failed to communicate with the SSPWBD.
73	SSPWBD HW Version <b>Only applies to:</b> Christie M RGB Series		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.

#	Status	State	Value	Description
74	Power Supply 2 HW Version <b>Only applies to:</b> Griffyn 4K50-RGB and Sapphire 4K40-RGBH		<model>.<version>.<name>	The version information of the 48V power supply.
			Unknown	Cannot retrieve the hardware version. Displayed if the housekeeping board is not yet initialized.

### Christie Eclipse and Christie Eclipse G3 Version group status Items

#	Status	State	Value	Description
0	Main Control Board SW Version		<version>	Displays the software version running on the main control board.
			Unknown	Cannot determine the software version information.
1	Main Control Board HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Detection Fault	Failed to read the board type information.
4 5 6	Formatter-Red HW Version Formatter-Green HW Version Formatter-Blue HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board This information is cached while the projector is in standby.
			N/A	The formatter has never been turned on or initialized.
15	Lens Motor Board SW Version <b>Only applies to:</b> Christie Eclipse		<boot version> <main version>	Displays the software version as reported by the board.
			N/A	Software version is not available because the board failed to initialize properly.
			<boot version> <main version> - backup firmware not found	Cannot find or validate (corrupt) the upgrade (RFF).
			Programming	Cannot use the board at this point because it is being programmed.






#	Status	State	Value	Description
			Unexpected Behavior	The board is not behaving as expected. For example, it is in the wrong state or it is not responding to commands correctly.
16	Lens Motor Board HW Version <b>Only applies to:</b> Christie Eclipse		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Unknown	The upstream communication path is non-functional.
			Detection fault	Failed to read board type information.
17	Power Supply HW Version		<model>.<version>.<name>	The version information of the 48V power supply.
			Unknown	Cannot retrieve the hardware version. Displayed if the housekeeping board is not yet initialized.
18	Housekeeping Board HW Version		<name>.<level>.<mod>	<name> = Name of the board (such as HKBC) <level> = Hardware version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version.
19	Keypad Display HW Version		<name>.<level>.<mod>	<name> = Name of the board (such as IKB) <level> = Hardware version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.
56	Color Sensor Board HW Version <b>Only applies to:</b> Christie Eclipse		<version>	Displays the hardware version running on the color sensor board.
			Unknown	Cannot retrieve the hardware version.

#	Status	State	Value	Description
58	Calibration Version		text string with Hawkeye version	Displays the calibration software used to calibrate projector.
			Uncalibrated	Indicates an uncalibrated projector.
59	Photon SW Version <b>Only applies to:</b> Christie Eclipse G3		<major>.<minor>.<mod>-<Rev>(Boot)/<major>.<minor>.<mod>-<Rev>(Main)	Displays the Photon bootloader software version and Photon Main firmware software version.
			Unknown	Cannot communicate with the Photon module or programming firmware.
62	Premod Formatter-Red HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board  This is cached information while the projector is in Standby mode.
63	Premod Formatter-Green HW Version			
64	Premod Formatter-Blue HW Version			
			N/A	The formatter has never been turned on or initialized.
68	VOM HW Version <b>Only applies to:</b> Christie Eclipse		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Unknown	Cannot retrieve the hardware version as the board is not ready.
74	Power Supply 2 HW Version <b>Only applies to:</b> Christie Eclipse G3		<name>.<level>.<mod>	Displays the version information of the 48V power supply.
			Unknown	Displayed if the housekeeping board is not initialized yet.





# Temperature Group (SST+TEMP?)







The Temperature group provides values and fault conditions for temperature-related items in Christie TruLife+.

## Christie M RGB Series and Griffyn® Series Temperature group status items











#	Status	State	Value	Description
2	Air Intake Temperature		<value> °C	Displays the current temperature of the sensor.
4	Main Control Board Temperature			
6	Image Processor Scaler Temperature		Unknown	Temperature reading is unavailable.
10	Formatter-Red Temperature			
11	DMD Waterblock Temperature		<value> °C - Low Temperature	Temperature is sitting inside the warning band.
12	Formatter-Green Temperature			
14	Formatter-Blue Temperature		<value> °C - High Temperature	Temperature is sitting inside the warning band.
20	Housekeeping Board Temperature			
29	Main Control Board FPGA Temperature			
123	Variable Option Module FPGA Temperature		<value> °C - Too Hot (shutdown)	Temperature is exceeding the error threshold.
124	Power Supply Temperature		Communication Fault (shutdown)	Cannot retrieve the temperature from sensor.
125	Power Supply 2 Temperature			
126	Actuator Temperature			
127	WBD Temperature		<value> °C - Too Cold (shutdown)	Temperature is below the error threshold.
131	Coolant Temperature			
<b>125 Only applies to:</b> Griffyn 4K50-RGB				
<b>126 and 127 Only apply to:</b> Christie M RGB Series				
<b>131 Only apply to:</b> Christie M 4K15 RGB models				












## Christie Eclipse G3 Temperature group status items

#	Status	State	Value	Description
2	Air Intake Temperature		<value>° C	Displays the current temperature of the sensor.
4	Main Control Board Temperature			
6	Image Processor Scaler Temperature		Unknown	Temperature reading is unavailable.
10	Formatter-Red Temperature			
11	DMD Waterblock Temperature		<value>° C - Low Temperature	Temperature is sitting inside the warning band.
12	Formatter-Green Temperature			
14	Formatter-Blue Temperature		<value>° C - High Temperature	Temperature is sitting inside the warning band.
20	Housekeeping Board Temperature			
29	Main Control Board FPGA Temperature			
117	Premod Formatter-Red Temperature		<value>° C - Too Hot (shutdown)	Temperature is exceeding error threshold.
118	Premod Formatter-Green Temperature			

#	Status	State	Value	Description
119	Premod Formatter-Blue Temperature		Communication fault (shutdown)	Failed to retrieve temperature from sensor.
123	Variable Option Module FPGA Temperature			
124	Power Supply 1 Temperature		<value>° C - Too Cold (shutdown)	Temperature is below error threshold.
125	Power Supply 2 Temperature			
133	Coolant Outlet Temperature			
135	Premod Red LE Front Temperature			
136	Premod Green LE Front Temperature			
137	Premod Blue LE Front Temperature			
147	Ambient Relative Humidity		<value>%	Displays the relative humidity value as measured at air intake.
			Unknown	Humidity reading is unavailable.
			<value>% - High	Humidity is sitting inside the warning band.
			<value>% - Too High (shutdown)	Humidity exceeds the error threshold.

### Christie Eclipse Temperature group status items




#	Status	State	Value	Description
0	Integrator Rod Temperature		<value>° C	Displays the current temperature of the sensor.
2	Air Intake Temperature			
4	Main Control Board Temperature		Unknown	Temperature reading is unavailable.
6	Image Processor Scaler Temperature			
10	Formatter-Red Temperature		<value>° C - Low Temperature	Temperature is sitting inside the warning band.
11	DMD Waterblock Temperature			
12	Formatter-Green Temperature		<value>° C - High Temperature	Temperature is sitting inside the warning band.
14	Formatter-Blue Temperature			
20	Housekeeping Board Temperature		<value>° C - Too Hot (shutdown)	Temperature is exceeding error threshold.
29	Main Control Board FPGA Temperature			
31	Fiber Bundles Temperature		Communication fault (shutdown)	Failed to retrieve temperature from sensor.
32	Diffuser Temperature		<value>° C - Too Cold (shutdown)	Temperature is below error threshold.
34	Power Supply Temperature		<value>° C	Displays the current temperature of the sensor
			Unknown	Temperature reading is unavailable
			<value>° C - Low Temperature	Temperature is sitting inside the warning band.

#	Status	State	Value	Description
			<value>° C - High Temperature	Temperature is sitting inside the warning band.
			<value>° C - Too Hot (shutdown)	Temperature is exceeding error threshold.
			Communication fault (shutdown)	Failed to retrieve temperature from sensor.
			<value>° C - Too Cold (shutdown)	Temperature is below error threshold.
114	Exhaust Temperature		<value>° C	Displays the current temperature of the sensor.
115	Static Diffuser Temperature			
116	PSF2 Temperature		Unknown	Temperature reading is unavailable.
117	Premod Formatter-Red Temperature			
118	Premod Formatter-Green Temperature		<value>° C - Low Temperature	Temperature is sitting inside the warning band.
119	Premod Formatter-Blue Temperature			
120	Premod DMD Waterblock Temperature		<value>° C - High Temperature	Temperature is sitting inside the warning band.
123	Variable Option Module FPGA Temperature		<value>° C - Too Hot (shutdown)	Temperature is exceeding error threshold.
			Communication fault (shutdown)	Failed to retrieve temperature from sensor.
			<value>° C - Too Cold (shutdown)	Temperature is below error threshold.













## Cooling Group (SST+COOL?)


The Cooling Group provides values and fault conditions related to the cooling and fans for Christie TruLife+.












### Griffyn® Series and Sapphire® 4K40-RGBH Cooling group status items

#	Status	State	Value	Description
3	Formatter-Green (Fan 4)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
6	Cave Blower Fan (Fan 102)		<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
			Off	Fan is off.






















#	Status	State	Value	Description
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
12	Liquid Cooling Flow Detect		On	Liquid cooling flow is normal.
			Off	Liquid cooling is off.
			Unknown	Cannot determine the cooling flow.
			Low Flow	Flow reading is lower than expected.
			Flow Impeded	Flow reading is critically lower than the minimum recommended threshold.
31	Formatter-Red (Fan 5)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
33	Laser Driver Intake (Fan 24)			
34	Light Engine Intake (Fan 25)			
35	Laser Driver Intake (Fan 26)			
36	36 Laser Driver Intake (Fan 27)		<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
45	Formatter-Blue (Fan 3)			
47	Power Supply (Fan 47)			
48	Power Supply 2 Fan		Off	Fan is off.
55	Radiator 1 Fan A (Fan 6)			
56	Radiator 1 Fan B (Fan 7)		Unknown	The tachometer reading is unavailable.
57	Radiator 1 Fan C (Fan 8)			
58	Radiator 1 Fan D (Fan 9)			
59	Radiator 1 Fan E (Fan 10)		Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
60	Radiator 1 Fan F (Fan 11)			
	<b>35, 36 Only apply to:</b> Griffyn 4K35-RGB and Griffyn 4K50-RGB		<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
	<b>48 Only apply to:</b> Griffyn 4K35-RGB, Griffyn 4K50-RGB, and Sapphire 4K40-RGBH		<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.


















#	Status	State	Value	Description
99	Liquid Cooling Pump		<value> RPM	Displays the RPM value indicating the pump is operating normally.
			Off	Liquid cooling is off.
			Unknown	The liquid cooling status is unavailable.
			<value> RPM - Low RPM	Pump is running under expected RPM.
			<value> RPM - High RPM	Pump is running above expected RPM.
			<value> RPM - Low RPM	Pump is running under critical RPM.
			<value> RPM - High RPM	Pump is running above critical RPM.
123	Liquid Cooling LOS Flow Detect <b>Only applies to:</b> Griffyn 4K35-RGB, Griffyn 4K50-RGB, and Sapphire 4K40-RGBH		On	Liquid cooling flow is normal.
			Off	Liquid cooling is off.
			Unknown	Cannot determine the cooling flow.
			Low Flow	Flow reading is lower than expected.
			Flow Impeded	Flow reading is critically lower than the minimum recommended threshold.
124	Liquid Cooling LOS Pump <b>Only applies to:</b> Griffyn 4K35-RGB, Griffyn 4K50-RGB, and Sapphire 4K40-RGBH		<value> RPM	Displays the RPM value indicating the pump is operating normally.
			Off	Liquid cooling is off.
			Unknown	The liquid cooling status is unavailable.
			<value> RPM - Low RPM	Pump is running under expected RPM.
			<value> RPM - High RPM	Pump is running above expected RPM.
			<value> RPM - Low RPM	Pump is running under critical RPM.
			<value> RPM - High RPM	Pump is running above critical RPM.











#	Status	State	Value	Description
125	Fan Speed Profile		<mode>	Reflects the fan mode.
126	Liquid Cooling Coolant Level <b>Only applies to:</b> Griffyn 4K35-RGB, Griffyn 4K50-RGB, and Sapphire 4K40-RGBH		OK	Indicates the coolant level is normal.
			Unknown	The liquid cooling coolant level status is unavailable.
			Low	Indicates the coolant level is low and must be filled at next service call.
134	Phosphor Wheel 1 Fan (Fan 14)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
135	Phosphor Wheel 2 Fan (Fan 15)			
136	Laser Exhaust (Fan 16)			
	<b>Only applies to:</b> Sapphire 4K40-RGBH		<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
			Off	Fan is off.
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.

### Christie M 4K RGB series Cooling group status items






#	Status	State	Value	Description
3	Blue LOS Blower (Fan 4) <b>Only applies to:</b> Christie M 4K25 RGB models		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
			<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
			Off	Fan is off.











#	Status	State	Value	Description
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
6	Cave Blower Fan (Fan 102)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
			<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
			Off	Fan is off.
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
12	Liquid Cooling Flow Detect <b>Only applies to:</b> Christie M 4K25 RGB models		On	Liquid cooling flow is normal.
			Off	Liquid cooling is off.
			Unknown	Cannot determine the cooling flow.
			Low Flow	Flow reading is lower than expected.
			Flow Impeded	Flow reading is critically lower than the minimum recommended threshold.

#	Status	State	Value	Description
45	Light Engine (Fan 3)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
47	Power Supply (Fan 47)			
55	Radiator 1 Fan A (Fan 6)			
56	Radiator 1 Fan B (Fan 7)		<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
57	Radiator 1 Fan C (Fan 8)		Off	Fan is off.
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
99	Liquid Cooling Pump		<value>RPM	Displays the RPM value indicating the pump is operating normally.
			Off	Liquid cooling is off.
			Unknown	The liquid cooling status is unavailable.
			<value> RPM - Low RPM	Pump is running under expected RPM.
			<value> RPM - High RPM	Pump is running above expected RPM.
			<value> RPM - Low RPM	Pump is running under critical RPM.
			<value> RPM - High RPM	Pump is running above critical RPM.
123	Liquid Cooling LOS Flow Detect		On	Indicating the liquid cooling flow is operating normally.
			Off	Liquid cooling is off.
			Unknown	Cannot determine the cooling flow.




#	Status	State	Value	Description
			Low Flow	Flow reading is lower than expected.
			Flow Impeded	Flow reading is critically lower than the minimum recommended threshold.
124	Liquid Cooling LOS Pump		On	Displays the RPM value indicating the pump is operating normally.
			Off	Liquid cooling is off.
			Unknown	The liquid cooling status is unavailable.
			<value> RPM - Low RPM	Pump is running under expected RPM.
			<value> RPM - High RPM	Pump is running above expected RPM.
			<value> RPM - Low RPM	Pump is running under critical RPM.
			<value> RPM - High RPM	Pump is running above critical RPM.
125	Fan Speed Profile		<mode>	Reflects the fan mode.

### Christie Eclipse G3 Cooling group status items

#	Status	State	Value	Description
6	Cave Blower Fan (Fan 102)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through fan calibration step.
47	Power Supply 1 Fan			
48	Power Supply 2 Fan			
55	Radiator 1 Fan A (Fan 6)		<%max>% - <tach> RPM	Displays current tachometer reading and percentage of maximum speed determined at calibration.
56	Radiator 1 Fan B (Fan 7)			
57	Radiator 1 Fan C (Fan 8)			
58	Radiator 1 Fan D (Fan 9)		Off	Fan is off.
59	Radiator 1 Fan E (Fan 10)			
60	Radiator 1 Fan F (Fan 11)			
			Unknown	The tachometer reading is unavailable.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.










#	Status	State	Value	Description
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
125	Fan Speed Profile		<mode>	Reflects the fan mode.
127	Prime Red FPGA Blower (Fan1)		<tach> RPM	Displays the current tachometer reading (if the fan has not gone through fan calibration step).
128	Premod Green FPGA Blower (Fan2)			
139	Premod TIR			
146	Pressurized Filter Fan1 (Fan 16)			
147	Pressurized Filter Fan2 (Fan 17)		<%max>% - <tach> RPM	Displays the current tachometer reading and percentage of the maximum speed determined at calibration.
148	Right Intake Fan (Fan 4)			
149	Left Intake Fan (Fan 5)			
			Off	Fan is off.
			Unknown	The tachometer reading is unavailable.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
			Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.


### Christie Eclipse Cooling Group status items

#	Status	State	Value	Description
6	Cave Blower (Fan 102)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through the fan calibration step.
			<%max>% - <tach> RPM	Displays the current tachometer reading and percentage of maximum speed determined at calibration.
			Off	Fan is off.

#	Status	State	Value	Description
			Unknown	The tachometer reading is unavailable.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
			Off - Overridden	Fan is off. Fan speed has been changed from its default recommended value.
			<tach> RPM - Overridden	Fan is on. Fan speed has been changed from its default recommended value.
12	Liquid Cooling Flow Meter Prime		On	Liquid cooling flow is normal.
			Off	Liquid cooling is off.
			Unknown	Cannot determine cooling flow.
			Low Flow	Liquid cooling flow reading is lower than expected.
		Error	Flow Impeded	Liquid cooling flow reading is critically lower than the minimum recommended threshold.
13	Liquid Cooling Pump Prime		<value> RPM	Pump operating normally. Displays the RPM value
			Off	Liquid cooling is off.
			Unknown	Status is unavailable.
			<value> RPM - Low RPM	Pump running under expected RPM.
			<value> RPM - High RPM	Pump running above expected RPM.
			<value> RPM - Low RPM	Pump running under critical RPM.
			<value> RPM - High RPM	Pump running above critical RPM.
33	CC Rad Bot-R (Fan 1)		<tach> RPM	Displays the current tachometer reading, if fan has not gone through the fan calibration step.
34	CC Rad Top-L (Fan 2)			
35	CC Rad Top-R (Fan 3)			
36	CC Rad Bot-L (Fan 0)			
42	Ferrule/Diffuser LAD (Fan 11)			













#	Status	State	Value	Description
55	Prime-LE Rad Top-L (Fan 4)		<%max>% - <tach> RPM	Displays the current tachometer reading and percentage of maximum speed determined at calibration.
56	Prime-LE Rad Top-R (Fan 5)			
57	Prime-LE Rad Bot-L (Fan 6)			
58	Prime-LE Rad Bot-R (Fan 7)			
70	Pre-LE Intake Bot-L (Fan 14)		Off	Fan is off.
71	Pre-LE Intake Bot-R (Fan 15)			
72	Pre-LE Intake Top-L (Fan 16)		Unknown	The tachometer reading is unavailable.
73	Pre-LE Intake Top-R (Fan 17)			
108	Prime-LE Exhaust Left (Fan 9)		<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
109	Prime-LE Exhaust Right (Fan 10)			
117	Pre-LE LAD Left (Fan 18)		Off - Overridden	Fan is off. Fan speed has been changed from its default recommended value.
118	Pre-LE LAD Right (Fan 20)			
119	Pre-LE Exhaust (Fan 19)		<tach> RPM - Overridden	Fan is on. Fan speed has been changed from its default recommended value.
121	Liquid Cooling Flow Meter Premod		On	Liquid cooling flow is normal.
			Off	Liquid cooling is off.
			Unknown	Cannot determine liquid cooling flow.
			Low Flow	Liquid cooling flow reading is lower than expected.
			Flow Impeded	Flow reading is critically lower than the minimum recommended threshold.
122	Liquid Cooling Pump Premod		<value> RPM	Pump operating normally. Displays the RPM value
			Off	Liquid cooling is off.
			Unknown	Status is unavailable.
			<value> RPM - Low RPM	Pump running under expected RPM.
			<value> RPM - High RPM	Pump running above expected RPM.
			<value> RPM - Low RPM	Pump running under critical RPM.







#	Status	State	Value	Description
			<value> RPM - High RPM	Pump running above critical RPM.

## Serial Group (SST+SERI?)









The Serial group provides values and fault conditions related to hardware serial numbers for Christie TruLife+.














### Christie M RGB Series, Griffyn® Series, and and Sapphire® 4K40-RGBH Serial group status items

#	Status	State	Value	Description
0	Main Control Board S/N		<serial number>	Displays the electronic serial number of the main control board.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
3	Formatter-Red S/N		<serial number>	Displays the electronic serial number of the formatter.
4	Formatter-Green S/N		N/A	The information is not currently available (card not present or not powered).
5	Formatter-Blue S/N		Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
14	Housekeeping Board S/N		<serial number>	Displays the electronic serial number of the board.
15	Keypad Display S/N		Unknown	The serial number is unavailable because the board is not ready.
			Missing Serial Number	Cannot retrieve the value because the serial number was not programmed into the board correctly.
67	Variable Option Module S/N		<serial number>	Displays the electronic serial number of the board.
			Unknown	The serial number is unavailable because the board is not ready.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.

#	Status	State	Value	Description
68	Power Supply Board S/N		<serial number>	Displays the electronic serial number of the board.
69	SSPWBD S/N <b>Only applies to:</b> Christie M RGB Series		Unknown	The serial number is unavailable because the board is not ready.
			Missing Serial Number	Cannot retrieve the value because the serial number was not programmed into the board correctly.
71	Laser Optical System S/N		<serial number>	Displays the electronic serial number of the laser optical subsystem (LOS).
			Unknown	The serial number is unavailable because the board is not ready.
			Missing Serial Number	Cannot retrieve the value because the serial number was not programmed into the board correctly.

### Christie Eclipse and Christie Eclipse G3 Serial group status items

#	Status	State	Value	Description
0	Main Control Board S/N		<serial number>	Displays the electronic serial number of the main control board.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
3	Formatter-Red S/N		<serial number>	Displays the electronic serial number of the formatter.
4	Formatter-Green S/N			
5	Formatter-Blue S/N		N/A	The information is not currently available (card not present or not powered).
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
12	Lens Motor Board S/N <b>Only applies to:</b> Christie Eclipse		<serial number>	Displays the electronic serial number of the board.
			N/A	Cannot retrieve the value due to an error with the board
14	Housekeeping Board S/N		<serial number>	Displays the electronic serial number of the board.
15	Keypad Display S/N			

#	Status	State	Value	Description
			Unknown	The serial number is unavailable because the board is not ready.
			Missing Serial Number	Cannot retrieve the value because the serial number was not programmed into the board correctly.
61	Color Sensor Board S/N <b>Only applies to:</b> Christie Eclipse		<serial number>	Displays the electronic serial number of the color sensor board.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
64	Premod Formatter-Red S/N		<serial number>	Displays the electronic serial number of the formatter.
65	Premod Formatter-Green S/N		N/A	The information is not currently available (card not present or not powered).
66	Premod Formatter-Blue S/N		Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
67	Variable Option Module S/N <b>Only applies to:</b> Christie Eclipse		<serial number>	Displays the electronic serial number of the board.
			Unknown	The serial number is unavailable because the board is not ready.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.
71	Laser Optical System S/N		<serial number>	Displays the electronic serial number of the laser optical subsystem.
72	Laser Optical System 2 S/N <b>Only applies to:</b> Christie Eclipse G3		Unknown	The serial number is unavailable because the board is not ready.
			Missing S/N	Cannot retrieve the value because the serial number was not programmed into the board correctly.

## Illuminator Group (SST+LGHT?)

The Illuminator group provides values and fault conditions relating to the light source status for Christie TruLife+.


















### Christie M RGB Series and Griffyn® Series Illuminator group status items




The Illuminator group provides values and fault conditions relating to the light source status for Christie M RGB Series and Griffyn® Series.



X in the status name represents a number between 1 and the number of drivers in the system. The Illuminator group returns the status for each driver.

Status	State	Value	Description
LOS State		On	Lasers are on.
		Off	Lasers are off.
		Warming Up	Lasers are in the process of turning on.
		Cooling Down	Lasers are off and are cooling down.
		Waiting to Strike	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
Main Code CRC		OK	The CRC is OK.
CPU Temperature		<value>°C	Displays the CPU temperature in Celsius.
		<value>°C	Temperature exceeds the warning threshold.
CSB Temperature		<value>°C	Displays the color sensor board (CSB) temperature in Celsius.
LiteLOC™		OK	LiteLOC is enabled and OK.
		Not Active	LiteLOC is disabled.
		Not Reachable	LiteLOC may not be able to reach brightness or color targets.
Power State		Power.On	Lasers are on.
		Power.Off	Lasers are off.









Status	State	Value	Description
		Power.Warm Up	Lasers are in the process of turning on.
		Power.Cool Down	Lasers are off and cooling down.
		Power.Standby	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
		Power.Halt	A critical hardware issue exists. The laser subsystem remains off until the issue is resolved and the system's AC power cycled.
CSB DAC Calibration		OK	The color sensor board (CSB) DAC calibration exists.
LiteLOC Sensor to Screen Calibration		OK	LiteLOC sensor-to-screen calibration exists.
		Achieve additional performance by performing Sensor to Screen calibration	LiteLOC sensor-to-screen calibration does not exist.
LiteLOC LOS to Sensor Calibration		OK	LiteLOC LOS-to-screen calibration exists.
LaserCrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
Laser Reds		<value>	Displays the health status of the red lasers.
Laser Greens		<value>	Displays the health status of the green lasers.
Laser Blues		<value>	Displays the health status of the blue lasers.
Laser Tecs <b>Only applies to:</b> Griffyn 4K32-RGB		<value>	Displays the health status of the TECs.
Laser Cold Plate Temp <b>Only applies to:</b> Griffyn 4K32-RGB		<value>°C	Displays the temperature inside the laser optical subsystem (LOS).
		<value>°C	Temperature exceeds the warning threshold.
Laser LOS Temp <b>Only applies to:</b> Griffyn 4K32-RGB		<value>°C	Displays the temperature inside LOS.
		<value>°C	Temperature exceeds the warning threshold.

Status	State	Value	Description
Laser LOS Humidity <b>Only applies to:</b> Griffyn 4K32-RGB		<RH value> %	Displays the humidity in the LOS.
		<RH value> %	Humidity exceeds the warning threshold.
Laser Standby Hours		<standby hours>	Displays the hours spent by the LOS in Standby mode. These hours are not the same as the projector standby hours.
Laser On Hours		<laser on hours>	Displays the laser on hours.
Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.
UCD MFG Calibration		OK	UCD calibrations are OK.
		Warning	One or more UCDs are missing calibration.
LOS Dewpoint <b>Only applies to:</b> Griffyn 4K32-RGB		OK	Displays the dewpoint inside the LOS.
		Approaching limit	User dewpoint (set using Max Ambient Temperature) is approaching the LOS dewpoint.
		Reached limit	User dewpoint (set using Max Ambient Temperature) has reached the LOS dewpoint. Brightness may be reduced.
Laser Boot SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser Main SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser UCD SW Version		<version>	UCD version is OK.
		<invalid version number>	At least one UCD version mismatch exists (upgrade failed).
Laser HKB FPGA Version		<version>	Housekeeping board (HKB) FPGA version is OK.
		<invalid version number>	A housekeeping board (HKB) FPGA version mismatch exists.
Laser HKB HW Version		<type>.<version>.<mod>	Housekeeping board (HKB) hardware version is OK.

Status	State	Value	Description
		<invalid version number>	A housekeeping board (HKB) hardware version mismatch exists.
Laser CSB HW Version		<type>.<version>.<mod>	Color sensor board (CSB) hardware version is OK.
		<invalid version number>	A color sensor board (CSB) version mismatch exists or the board could not be read.
CSxxxx Version		<type>.<version>.<mod>	CS18G6 version is OK.
		<invalid version number>	A CS18G6 version mismatch exists or the board could not be read.
LBD RGB Version		<type>.<version>.<mod>	The laser driver board RGB version is OK.
		<invalid version number>	A laser driver board RGB version mismatch exists or the board could not be read.
Laser CSB HW S/N		<serial number>	Displays the color sensor board (CSB) serial number.
		<invalid serial number>	Color sensor board (CSB) serial number is missing.
CSxxxx S/N		<serial number>	Displays the CS18G6 serial number.
		<invalid serial number>	CS18G6 serial number is missing.
LBD RGB S/N		<serial number>	Displays the laser driver board RGB serial number.
		<invalid serial number>	Laser driver board RGB serial number is missing.
Laser Red Bank X Temps		<value>°C	Displays the current temperature of the sensor.
		<value>°C	Temperature exceeds the warning threshold.
Laser Red Driver X Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
Laser Red Driver X Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.












Status	State	Value	Description
Laser Red Driver X Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Laser Green Bank X Temps		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Laser Green Driver X Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
Laser Green Driver X Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
Laser Green Driver X Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Laser Blue Bank X Temps		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Laser Blue Driver X Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
Laser Blue Driver X Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
Laser Blue Driver X Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Laser Tec X Bank Temps <b>Only applies to:</b> Griffyn 4K32-RGB		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.














Status	State	Value	Description
Laser Tec X Driver Amps <b>Only applies to:</b> Griffyn 4K32-RGB		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
Laser Tec X Driver Volts <b>Only applies to:</b> Griffyn 4K32-RGB		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
Laser Tec X Driver Temp <b>Only applies to:</b> Griffyn 4K32-RGB		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
Ambient Temperature		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.














## Sapphire® 4K40-RGBH Illuminator group status items















The Illuminator group provides values and fault conditions relating to the light source status for Sapphire® 4K40-RGBH.

Status	State	Value	Description
LOS State		On	Lasers are on.
		Off	Lasers are off.
		Warming Up	Lasers are in the process of turning on.
		Cooling Down	Lasers are off and are cooling down.
		Waiting to Strike	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
Main Code CRC		OK	The cyclic redundancy check (CRC) is OK.
CPU Temperature		<value> °C	Displays the CPU temperature in Celsius.
		<value> °C	Temperature exceeds the warning threshold.
LiteLOC™		OK	LiteLOC is enabled and OK.














Status	State	Value	Description
		Not Active	LiteLOC is disabled.
		Not Reachable	LiteLOC may not be able to reach brightness or color targets.
Power State		Power.On	Lasers are on.
		Power.Off	Lasers are off.
		Power.Warm Up	Lasers are in the process of turning on.
		Power.Cool Down	Lasers are off and cooling down.
		Power.Standby	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
		Power.Halt	A critical hardware issue exists. The laser subsystem remains off until the issue is resolved and the system's AC power cycled.
CSB DAC Calibration		OK	The color sensor board (CSB) DAC calibration exists.
LiteLOC Sensor to Screen Calibration		OK	LiteLOC sensor-to-screen calibration exists.
		Achieve additional performance by performing Sensor to Screen calibration	LiteLOC sensor-to-screen calibration does not exist.
LiteLOC LOS to Sensor Calibration		OK	LiteLOC LOS-to-screen calibration exists.
LOS 1 Laser CrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
Laser Reds		<value>	Displays the health status of the red lasers.
Laser Greens		<value>	Displays the health status of the green lasers.
Laser Blues		<value>	Displays the health status of the blue lasers.
LOS 1 Laser On Hours		<laser on hours>	Displays the laser on hours.
LOS 1 Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.

Status	State	Value	Description
LOS 1 UCD MFG Calibration		OK	UCD calibrations are OK.
		Warning	One or more UCDs are missing calibration.
LOS 2 Laser CrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
LOS 2 Laser Phosphor		<value>	Displays the health status of the LOS 2 laser phosphor.
LOS 2 Laser On Hours		<laser on hours>	Displays the laser on hours.
LOS 2 Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.
LOS 2 UCD MFG Calibration		OK	UCD calibrations are OK.
LOS 3 Laser CrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
LOS 3 Laser Phosphor		<value>	Displays the health status of the LOS 3 laser phosphor.
LOS 3 Laser On Hours		<laser on hours>	Displays the laser on hours.
LOS 3 Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.
LOS 3 UCD MFG Calibration		OK	UCD calibrations are OK.
Laser Boot SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser Main SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser UCD SW Version		<version>	UCD version is OK.
		<invalid version number>	At least one UCD version mismatch exists (upgrade failed).

Status	State	Value	Description
Laser HKB FPGA Version		<version>	Housekeeping board (HKB) FPGA version is OK.
		<invalid version number>	A housekeeping board (HKB) FPGA version mismatch exists.
Laser HKB HW Version		<type>.<version>.<mod>	Housekeeping board (HKB) hardware version is OK.
		<invalid version number>	A housekeeping board (HKB) hardware version mismatch exists.
Laser CSB HW Version		<type>.<version>.<mod>	Color sensor board (CSB) hardware version is OK.
		<invalid version number>	A color sensor board (CSB) version mismatch exists or the board could not be read.
CS12G0 # Version		<type>.<version>.<mod>	CS12G0 # version is OK. Where the CS12G0 # version is one of the following: CS12G0 1 Version CS12G0 2 Version CS12G0 3 Version CS12G0 4 Version
		<invalid version number>	A CS12G0 # version mismatch exists or the board could not be read.
LBD X#-# # Version		<type>.<version>.<mod>	The laser driver board version is OK. Where the laser driver board is one of the following: LBD X5-O Version LBD X2-O 1 Version LBD X2-O 2 Version LBD X2-O 3 Version LBD X2-O 4 Version
		<invalid version number>	A laser driver board version mismatch exists or the board could not be read.
Laser CSB HW S/N		<serial number>	Displays the color sensor board (CSB) serial number.
		<invalid serial number>	Color sensor board (CSB) serial number is missing.
CS12G0 # S/N		<serial number>	Displays the CS12G0 # serial number. Where the CS12G0 # version is one of the following: CS12G0 1 Version CS12G0 2 Version




Status	State	Value	Description
			CS12G0 3 Version CS12G0 4 Version
		<invalid serial number>	CS12G0 # serial number is missing.
LBD X#-# # S/N		<serial number>	Displays the LBD X#-# # serial number. Where the laser driver board is one of the following: LBD X5-O Version LBD X2-O 1 Version LBD X2-O 2 Version LBD X2-O 3 Version LBD X2-O 4 Version
		<invalid serial number>	LBD X#-# # serial number is missing.
LOS 1 Laser Red Bank # Temps		<value> °C	Displays the current temperature of the sensor. Where # represents a number between 1 and the number of laser drivers in the system
		<value> °C	Temperature exceeds the warning threshold.
LOS 1 Laser Red Driver # Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
LOS 1 Laser Red Driver # Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
LOS 1 Laser Red Driver # Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
LOS 1 Laser Green Bank # Temps		<value> °C	Displays the current temperature of the sensor. Where # represents a number between 1 and the number of laser drivers in the system
		<value> °C	Temperature exceeds the warning threshold.
LOS 1 Laser Green Driver # Amps		<value> A	Displays the current amperage of the sensor.

Status	State	Value	Description
		<value> A	Amperage exceeds the warning threshold.
LOS 1 Laser Green Driver # Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
LOS 1 Laser Green Driver # Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
LOS 1 Laser Blue Bank # Temps		<value> °C	Displays the current temperature of the sensor. Where # represents a number between 1 and the number of laser drivers in the system
		<value> °C	Temperature exceeds the warning threshold.
LOS 1 Laser Blue Driver # Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
LOS 1 Laser Blue Driver # Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
LOS 1 Laser Blue Driver # Temp		<value> °C	Displays the current temperature of the sensor.
		<value> °C	Temperature exceeds the warning threshold.
LOS 2 Laser Phosphor # Bank Temps		<value> °C	Displays the current temperature of the sensor. Where # represents a number between 1 and the number of phosphor drivers in the system
		<value> °C	Temperature exceeds the warning threshold.
LOS 2 Laser Phosphor # Driver Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
LOS 2 Laser Phosphor # Driver Volts		<value> V	Displays the current voltage of the sensor.













Status	State	Value	Description
		<value> V	Voltage exceeds the warning threshold.
LOS 2 Laser Phosphor # Driver Temp		<value>°C	Displays the current temperature of the sensor.
		<value>°C	Temperature exceeds the warning threshold.
LOS 3 Laser Phosphor # Bank Temps		<value>°C	Displays the current temperature of the sensor.  Where # represents a number between 1 and the number of phosphor drivers in the system
		<value>°C	Temperature exceeds the warning threshold.
LOS 3 Laser Phosphor # Driver Amps		<value> A	Displays the current amperage of the sensor.
		<value> A	Amperage exceeds the warning threshold.
LOS 3 Laser Phosphor # Driver Volts		<value> V	Displays the current voltage of the sensor.
		<value> V	Voltage exceeds the warning threshold.
LOS 3 Laser Phosphor # Driver Temp		<value>°C	Displays the current temperature of the sensor.
		<value>°C	Temperature exceeds the warning threshold.
Ambient Temperature		<value>°C	Displays the current temperature of the sensor.
		<value>°C	Temperature exceeds the warning threshold.

## Christie Eclipse G3 Illuminator group status items





















The Illuminator group provides values and fault conditions relating to the light source status for Christie Eclipse G3.

















Status	State	Value	Description
LOS State		On	Lasers are on.
		Off	Lasers are off.
		Warming Up	Lasers are in the process of turning on.



Status	State	Value	Description
		Cooling Down	Lasers are off and are cooling down.
		Waiting to Strike	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
Color Sensor - Red Color Sensor - Green Color Sensor - Blue		<value>	Displays the current color sensor value.
		Unknown	Cannot retrieve the value because the color sensor board is not detected or is non-functional.
		<value> - Unexpected	The color sensor detects light when there should not be any light.
Main Code CRC		OK	The cyclic redundancy check (CRC) is OK.
CPU Temperature		<value>°C	Displays the CPU temperature in Celsius.
		<value>°C	Temperature exceeds the warning threshold.
LiteLOC™		OK	LiteLOC is enabled and OK.
		Not Active	LiteLOC is disabled.
		Not Reachable	LiteLOC may not be able to reach brightness or color targets.
Power State		Power.On	Lasers are on.
		Power.Off	Lasers are off.
		Power.Warm Up	Lasers are in the process of turning on.
		Power.Cool Down	Lasers are off and cooling down.
		Power.Standby	Lasers will start getting ready to turn on when the lasers have cooled down sufficiently.
		Power.Halt	A critical hardware issue exists. The laser subsystem remains off until the issue is resolved and the system's AC power cycled.
CSB DAC Calibration		OK	The color sensor board (CSB) DAC calibration exists.

Status	State	Value	Description
LiteLOC Sensor to Screen Calibration		OK	LiteLOC sensor-to-screen calibration exists.
		Achieve additional performance by performing Sensor to Screen calibration	LiteLOC sensor-to-screen calibration does not exist.
LiteLOC LOS to Sensor Calibration		OK	LiteLOC LOS-to-screen calibration exists.
LOS 1 Laser CrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
Laser Reds		<value>	Displays the health status of the red lasers.
Laser Greens		<value>	Displays the health status of the green lasers.
Laser Blues		<value>	Displays the health status of the blue lasers.
LOS 1 Laser Standby Hours		<laser standby hours>	Displays the laser standby hours.
LOS 1 Laser On Hours		<laser on hours>	Displays the laser on hours.
LOS 1 Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.
LOS 1 UCD MFG Calibration		OK	UCD calibrations are OK.
		Warning	One or more UCDs are missing calibration.
LOS 2 Laser CrossPlugDetect		OK	Lasers are wired correctly.
		<description of failure>	Lasers are wired incorrectly and cannot power on.
LOS 2 Laser Reds		<value>	Displays the health status of the red lasers.
LOS 2 Laser Greens		<value>	Displays the health status of the green lasers.
LOS 2 Laser Blues		<value>	Displays the health status of the blue lasers.
LOS 2 Laser Standby Hours		<laser standby hours>	Displays the laser standby hours.
LOS 2 Laser On Hours		<laser on hours>	Displays the laser on hours.

Status	State	Value	Description
LOS 2 Laser On Cycles		<count>	Displays the number of cycles the lasers were turned on from off.
LOS 2 UCD MFG Calibration		OK	UCD calibrations are OK.
		Warning	One or more UCDs are missing calibration.
Laser Boot SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser Main SW Version		<version>	Version is OK.
		<invalid version number>	A version mismatch exists.
Laser UCD SW Version		<version>	UCD version is OK.
		<invalid version number>	At least one UCD version mismatch exists (upgrade failed).
Laser HKB FPGA Version		<version>	Housekeeping board (HKB) FPGA version is OK.
		<invalid version number>	A housekeeping board (HKB) FPGA version mismatch exists.
Laser HKB HW Version		<type>.<version>.<mod>	Housekeeping board (HKB) hardware version is OK.
		<invalid version number>	A housekeeping board (HKB) hardware version mismatch exists.
Laser CSB HW Version		<type>.<version>.<mod>	Color sensor board (CSB) hardware version is OK.
		<invalid version number>	A color sensor board (CSB) version mismatch exists or the board could not be read.
Ambient Temperature		<value>°C	Displays the current temperature of the sensor.
		<value>°C	Temperature exceeds the warning threshold.
Chiller State		On	The chiller is on.
		Off	The chiller is off.
		Offline	The chiller is not communicating with the projector.

Status	State	Value	Description
Chiller Alarm Status		OK	Displays the chiller armed status. For Christie Eclipse G3, it always displays SMC.
		<string>	Error status supplied by the chiller. For details, see the chiller documentation.
Chiller Setpoint Temperature		<value>°C	Displays the chiller setpoint temperature in Celsius, which helps to troubleshoot issues with the chiller and to keep the lasers and light engine cool in the projector.
Chiller Water Temperature		<value>°C	Displays the chiller water temperature in Celsius.
Chiller Ambient Temperature		<value>°C	Displays the chiller ambient temperature in Celsius.
Chiller Flow Rate (LPM)		<value> LPM	Displays the chiller flow rate in LPM units.
Chiller Coolant Pressure (PSI)		<value> PSI	Displays the chiller coolant pressure in PSI units.
Chiller manufacturer		<value>	Displays the chiller manufacturer.
System Dewpoints		OK	Displays the system dewpoint.
		Humidity too high	The system dewpoint is too high and the coolant setpoints are adjusted to prevent condensation.
Ambient Dewpoint		<value>°C	Displays the ambient dewpoint.
		Warning	The ambient dewpoint is high enough to move the chiller setpoint.
LOS 1 Dewpoint		<value>°C	Displays the dewpoint inside LOS 1 in Celsius.
		Warning	The LOS 1 dewpoint is high, which is why LiteLOC™ is not achievable.
LOS 2 Dewpoint		<value>°C	Displays the dewpoint inside LOS 2 in Celsius.
		Warning	The LOS 2 dewpoint is high, which is why LiteLOC™ is not achievable.








## Christie Eclipse Illuminator group status items

The Illuminator group provides values and fault conditions relating to the light source status for Christie Eclipse.

### Christie Eclipse Illuminator group status items

Status	State	Value	Description
Laser Bank Firmware		<version>	Displays the firmware version running on the IPG laser rack.
		Unknown	Cannot determine the firmware version information.
Laser Bank State		Standby	Laser bank is in standby mode.
		Warming Up	Laser bank is warming up.
		On	Laser bank is on.
		Cooling Down	Laser bank is cooling down.
		Unknown	Cannot retrieve the status of the laser rack.
		Connecting...	Projector is attempting to connect to the laser bank.
		Handshaking...	Projector handshaking with laser bank.
		Disconnected	Communications with the laser rack could not be established after attempting to connect for 10 seconds.
Laser Bank Status		OK	Laser bank reports status OK.
		Unknown	Cannot communicate with laser bank to retrieve the laser bank status.
		Warning	Laser bank reports status as Warning.
Laser System Interlock		Closed	The system interlock is closed.
		Unknown	The system interlock is unknown because the

Status	State	Value	Description
			communication path is non-functional.
		Open	The system interlock is open.
Laser Bank Serial No.		<serial #>	Displays the serial number of the laser rack.
		Unknown	Cannot determine the serial number information.
Laser Bank Color Balance		OK	Color balance reported from the laser rack is OK
		Unknown	Cannot determine the color balance from the laser rack.
		Warning	Color balance reported from the laser rack is Warning.
		Error	Color balance reported from the laser rack is Error.
Laser Bank Model		<model>	Displays the model reported from the laser bank.
		Unknown	Cannot determine the model information.
		Unsupported - <model>	Connected rack model is not supported.
Ambient Temperature		OK	Ambient temperature is below the maximum expected entered by the user.
		Unknown	An upstream communication fault exists.
		High than the maximum value	Intake temperature is reading higher than the maximum ambient entered by the user.
Applied Laser Power		<applied laser power> - OK	Displays the current power applied to the laser bank.
		<applied laser power> - Ambient Approaching Limits	Displays the current laser power applied to the laser bank when the intake temperature is nearing the maximum ambient

Status	State	Value	Description
			temperature set by the user.
		<applied laser power> - Reduced Due to Ambient	Displays the current power applied to the laser bank when it has been reduced due to high ambient temperature.
Laser Bank Armed State		Armed	Laser bank is currently armed (green button is lit).
		Unknown	Cannot retrieve status from the laser bank.
		Not Armed	Laser bank is currently not armed (green button is not lit).
Color Sensor - Red Color Sensor - Green Color Sensor - Blue		<value>	Displays the current color sensor value.
		Unknown	Cannot retrieve the value because the CSENSE board is not detected or is non-functional.
		<value> - Unexpected	The color sensor detects light when there should not be any light.