

Technical Reference

020-101689-02

Roadie 4K Status System



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- j. For LCD projectors, the warranty period specified in the warranty applies only where the LCD projector is in "normal use" which means the LCD projector is not used more than 8 hours a day, 5 days a week.
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PREVENTATIVE MAINTENANCE

Preventative maintenance is an important part of the continued and proper operation of your product. Please see the Maintenance section for specific maintenance items as they relate to your product. Failure to perform maintenance as required, and in accordance with the maintenance schedule specified by Christie, will void the warranty.


REGULATORY

The product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

CAN ICES-3 (A) / NMB-3 (A)

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Environmental

The product is designed and manufactured with high-quality materials and components that can be recycled and reused. This symbol  means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from regular waste. Please dispose of the product appropriately and according to local regulations. In the European Union, there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

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Roadie 4K status system

This guide contains information about the values and fault conditions that can be reported by the status system on Roadie 4K projectors.

The status system provides an overview of the projector 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.



The projector presents the information contained in this document in the language selected by the operator.

Status system states

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


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











Alarm Group (SST+ALRM)

Displays any status items not in the OK state. This group contains a dynamic number of status items. If everything in the projector is OK, this group is empty.

Configuration Group (SST+CONF)





The Configuration Group provides values and fault conditions for configuration-related items in Roadie 4K.














#	Status	State	Value	Description
0	Projector Model		Roadie 4K35	Displays the model for the Roadie 4K projector.

#	Status	State	Value	Description
			Roadie 4K45	
			Jig Mode	Reserved for engineering use.
			Not Specified	The projector ID has not been specified.
			Invalid Data	Information is missing or corrupted on the status ID (SID).
			Communication Fault	Information is not available due to a hardware fault with the status ID (SID).
1	Projector S/N		<serial number>	Displays the serial number of the projector.
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted.
2	Output Resolution		<horizontal>x<vertical>	Provides the native output resolution of the projector.
3	Projector Build Date		<YYYY>/<MM>/<DD>	Displays the build date of the projector.
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted.

System Group (SST+SYST)

The Configuration Group provides values and fault conditions for configuration-related items in Roadie 4K.

#	Status	State	Value	Description
0	Projector Hours		<hours>:<minutes>	Displays the total amount of time that the projector has been on (including warm up and cool down times).
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted..
1	Pitch/Roll		<pitch value>/<roll value>	Provides the physical orientation of the projector: <ul style="list-style-type: none"> • A negative pitch means that the projector is pointing down. • A negative roll means the projector is tilted counter clockwise as seen from the rear.
			Communication Fault	Information is not available due to a hardware fault.

#	Status	State	Value	Description
			<pitch value>/<roll value> - Illegal Orientation	The projector cannot operate in the current orientation.
2	Lamp Motor X-Axis		OK	The motor and sensor combination is connected and functioning correctly as far as can be determined.
			Failed	During LampLOC™, reset, or calibration, an error was detected related to the motor and/or sensor.
3	Lamp Motor Y-Axis		OK	The motor and sensor combination is connected and functioning correctly as far as can be determined.
			Failed	During LampLOC™, reset, or calibration, an error was detected related to the motor and/or sensor.
4	Lamp Motor Z-Axis		OK	The motor and sensor combination is connected and functioning correctly as far as can be determined.
			Failed	During LampLOC™, reset, or calibration, an error was detected related to the motor and/or sensor.
5	Lens Motor Horizontal-Axis		OK	The motor and sensor combination is connected and functioning correctly as far as can be determined.
6	Lens Motor Vertical-Axis			
7	Lens Motor Zoom- Axis			During reset or calibration, an error was detected related to the motor and/or sensor.
8	Lens Motor Focus- Axis		Failed	
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 one or more tests.
31	Extractor Thermostat		OK	The device is within thermal limits
			Unknown	The status of the device is unknown.
			Too Hot (shutdown)	The device's thermal limit has been exceeded.

Signal Group (SST+SIGN?)

The Signal Group provides values and fault conditions for signal-related items in Roadie 4K.






#	Status	State	Value	Description
0	Card 1 - Input 1		Not Present	Either the card is not present or the card does not have a single input port.
1	Card 2 - Input 1		<input type> (No Signal)	No signal is detected.
1	Card 1 - Input 2		<input type> (No Signal)	No signal is detected.
3	Card 2 - Input 2		<input type> (No Signal)	Where <input type> : {DP, HDMI, DVI, 3G-SDI}
4	Card 3 - Input 1		<input type> (No Signal)	Where <input type> : {DP, HDMI, DVI, 3G-SDI}
5	Card 4 - Input 1		<input type>, <active window>@ <v-sync rate> (<status>)	Where <input type> : {DP, HDMI, DVI, 3G-SDI} <active window> : <columns>x<rows> <v-sync rate> : the input frame rate, in Hz (##.##Hz) <status> : {"Master", "No signal", "Inactive", "Locked"}
6	Card 3 - Input 2		<input type>, <active window>@ <v-sync rate> (<status>)	Where <input type> : {DP, HDMI, DVI, 3G-SDI} <active window> : <columns>x<rows> <v-sync rate> : the input frame rate, in Hz (##.##Hz) <status> : {"Master", "No signal", "Inactive", "Locked"}
7	Card 4 - Input 2		<input type>, <active window>@ <v-sync rate> (<status>)	Where <input type> : {DP, HDMI, DVI, 3G-SDI} <active window> : <columns>x<rows> <v-sync rate> : the input frame rate, in Hz (##.##Hz) <status> : {"Master", "No signal", "Inactive", "Locked"}
			<input type> <active window>@ <v-sync rate> (<status>)	Where <input type> : {DP, HDMI, DVI, 3G-SDI} <active window> : <columns>x<rows> <v-sync rate> : the input frame rate, in Hz (##.##Hz) <status> : {"Unlocked", "Out of phase"}
9	Output Frequency		N/A	No video is being displayed.
			<rate>Hz	Where <rate> : the output frame rate, in Hertz
10	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).






Lamp Group (SST+LAMP?)

The Lamp Group provides values and fault conditions for lamp-related items in Roadie 4K.

#	Status	State	Value	Description
0	Lamp State		On	The lamp is on.











#	Status	State	Value	Description
			Warming Up	The lamp is warming up.
			Off	The lamp is off.
			Cooling Down	The lamp is cooling down.
			Failed to Strike	The lamp failed to strike.
			Lamp Off - Unknown	The lamp was on but extinguished unexpectedly.
			Lamp Off - Interlock	The lamp was on but turned off due to a tripped interlock.
			No Light Detected	The power supply reported that the lamp was turned on successfully but no light was detected on the light sensor.
			Light Unexpectedly High	The lamp was powered off but the light is still detected. The projector remains in cool down.
1	Lamp Hours		<hours>:<minutes>	Displays the amount of time that the lamp has been on.
			<hours>:<minutes> (h:m) - Lamp is past expiry	The lamp is running past its maximum number of hours.
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted.
2	Lamp Type		<type>	Displays the type of lamp that the projector expects.
			Unsupported Lamp	The type of lamp specified cannot be used with the detected lamp power supply.
			Not Specified	The operator has not yet specified the type of lamp.
3	Lamp Installation Date		<YYYY>/<MM>/<DD>	Displays the date the lamp was installed.
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted.
4	Lamp S/N		<value>	Displays the serial number of the installed lamp.
			N/A	The storage device containing the information is inaccessible or the data on the device is corrupted.
5	Lamp Current		<voltage>A	Displays the current being applied to the lamp as reported by the power supply.

#	Status	State	Value	Description
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
6	Lamp Voltage		<voltage>V	Displays the voltage being applied to the lamp as reported by the power supply.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
7	Lamp Power		<wattage>W	Displays the power (in Watts) being applied to the lamp as reported by the power supply.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
8	Lamp Power Supply Temperature Status		OK	The lamp power supply temperature is within specification.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
			Too Hot	The lamp power supply is reporting it is too hot.
9	Lamp Power Supply Fan Status		OK	The lamp power supply fan is working properly.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
			Low RPM	The lamp power supply fan has failed.
10	Lamp Blower Airflow		OK	Airflow moving through the lamp blower is OK.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
			Insufficient airflow	The lamp blower is not moving enough air while the lamp is on.
11	Lamp Door		Closed	The lamp door is closed.
			Unknown	The value could not be retrieved due to a communication error with the lamp power supply.
			Open	The lamp door is open.
12	LampLOC		N/A	No lamp is specified (such as not installed).
















#	Status	State	Value	Description
			Calibrated	The LampLOC™ calibration has been performed.
			Calibration required	The lamp has been changed and the LampLOC™ calibration must be performed.
13	DC Cables		OK	The interlock is closed.
			Unknown	Could not retrieve the value of the interlock.
			Error	The DC cables are not properly connected.













Version Group (SST+VERS?)

The Version Group provides values and fault conditions for version-related items in Roadie 4K.

#	Status	State	Value	Description
0	Main Control Board SW Version		<version>	Displays the software version running on the controller 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.
2	Backplane HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Off	The backplane has never been turned on or initialized.
			Detection Fault	Failed to read the board type information.
3	Image Processor HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
			Off	The image processor board has never been turned on or initialized.
			Unknown	The image processor failed to initialize properly.

#	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
5	Formatter-Green HW Version			
6	Formatter-Blue HW Version			
			Off	The formatter board has never been turned on or initialized.
			Unknown	The backplane or image processor failed to be detected or initialized.
				Mismatch - <color>
			Mismatch - Unknown	Remote temperature harness on formatter is missing or not behaving properly.
			Detection Fault	Failed to read the board type information.
7	Option Card 1 HW Version		<name>.<level>.<mod>	<name> = Short name of the board <level> = Version of the board <mod> = Modification level of the board
8	Option Card 2 HW Version			
9	Option Card 3 HW Version			
10	Option Card 4 HW Version			
			This is cached information while the projector is in standby.	
		Off	The option card has never been turned on or initialized.	
		Not Present	No option card installed in the slot.	
		Unknown	The backplane failed to initialize properly.	
			Detection Fault	Failed to read the board type information.
11	Environmental Board SW Version		<boot version> <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	Upgrade (RFF) file not found or cannot be validated (corrupt).
			Programming	The board cannot be used 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.
12	Environmental Board HW Version		<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 nonfunctional.
			<version> - Incorrect	The revision of the Environment board is not compatible with the projector.
			Detection Fault	Failed to read the board type information.
			Power Connector Fault	The EVB failed to receive 12 V.
13	Lamp Motor Board SW Version		<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	Upgrade (RFF) file not found or cannot be validated (corrupt).
			Programming	The board cannot be used because it is being programmed.
			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.
14	Lamp Motor Board HW Version		<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 nonfunctional.
			Detection Fault	Failed to read the board type information.
15	Lens Motor Board SW Version		<boot version><main version>	Displays the software version as reported by the board.

#	Status	State	Value	Description
			N/A	Software version is not available because the board failed to initialize properly.
			<boot version><main version> - backup firmware not found	Upgrade (RFF) file not found or cannot be validated (corrupt).
			Programming	Lens Motor board cannot be used because it is being programmed.
			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		<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 nonfunctional.
			Detection Fault	Failed to read the board type information.
17	Lamp Power Supply Version		<model>.<hardware version>.<software version>	<model> = Name of power supply model <hardware version> = Hardware version of power supply <software version> = Software version of power supply
			Communication Fault	The power supply has failed to provide proper responses to three consecutive commands. The projector stays on.
			Communication Fault	The power supply has failed to respond correctly while trying to turn on the lamp.
			Detection Fault	The power supply has failed to respond to three consecutive commands.
			Unsupported Model - <model>.<hardware version>.<software version>	An unsupported model of the lamp power supply was detected. <model> = Name of power supply model <hardware version> = Hardware version of power supply <software version> = Software version of power supply

#	Status	State	Value	Description
30	Secondary Environmental Board SW Version		<boot version><main version>	Displays the software version as reported by the board.
			N/A	The software version is not available because the board failed to initialize properly.
			<boot version><main version>-backup firmware not found	Upgrade (RFF) file not found or cannot be validated (corrupt).
			Programming	The board cannot be used because it is being programmed.
			Unexpected Behavior	Board is not behaving as expected, for example, it is in the wrong state or is not responding to commands correctly.
31	Secondary Environmental Board 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	The upstream communication path is nonfunctional.
			<version> - Incorrect	The revision of the environmental board is not compatible with the projector.
			Detection Fault	Failed to read board type information.
			Power Connector Fault	The EVB failed to receive 12 V.

Temperature Group (SST+TEMP?)

The Temperature Group provides values and fault conditions for temperature-related items in Roadie 4K.

#	Status	State	Value	Description
0	Integrator Rod Temperature (Temp 1)		<value> °C	Displays the current temperature of the sensor.
1	Prism Temperature (Temp 7)		Unknown	Temperature reading is unavailable.
2	Air Intake Temperature (Temp 2)			
3	Lamp Exhaust Temperature (Temp 3)			
4	Main Control Board Temperature		Communication Fault (shutdown)	Failed to retrieve the temperature from sensor.
5	Backplane Temperature			
6	Image Processor Scaler Temperature			

#	Status	State	Value	Description
7	Image Processor Warp-Red Temperature		<value> °C - High Temperature	Temperature is sitting inside warning band.
8	Image Processor Warp-Green Temperature			
9	Image Processor Warp-Blue Temperature		<value> °C - Too Hot (shutdown)	Temperature is exceeding error threshold.
10	Formatter-Red Temperature			
11	DMD-Red Temperature (Temp 4)		<value> °C - Low Temperature	Temperature is sitting inside warning band.
12	Formatter-Green Temperature			
13	DMD-Green Temperature (Temp 5)		<value> °C - Too Cold (shutdown)	Temperature is below error threshold.
14	Formatter-Blue Temperature			
15	DMD-Blue Temperature (Temp 6)			
16	Option Card 1 Temperature			
17	Option Card 2 Temperature			
18	Option Card 3 Temperature			
19	Option Card 4 Temperature			
20	Environmental Board Temperature			
30	Secondary Environmental Board Temperature			

Cooling Group (SST+COOL?)

The Cooling Group provides values and fault conditions for cooling-related items in Roadie 4K.



















#	Status	State	Value	Description
0	Light Engine Intake (Fan 5)		<tach> RPM	Displays the current tachometer reading.
1	Light Engine Intake (Fan 6)			
2	Light Engine Intake (Fan 8)		Off	Fan is off.
3	Formatter-Green Blower (Fan 15)			
4	Laminar Airflow Device (Fan 4)		Unknown	The tachometer reading is unavailable.
5	Electronics Intake (Fan 10)			
6	Electronics Intake (Fan 11)		<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
7	Electronics Intake (Fan 12)			
8	Image Processor Blower (Fan 9)			
9	Electronics Exhaust (Fan 1)		Off - Overridden	Fan is off. The fan speed has been changed from its default recommended value.
10	Electronics Exhaust (Fan 2)			
11	Liquid Cooling Radiator (Fan 3)		<tach> RPM - Overridden	Fan is on. The fan speed has been changed from its default recommended value.
12	Liquid Cooling Flow Meter		<value> L/min	Displays the amount of liquid flowing past the sensor.



#	Status	State	Value	Description
			Off	Liquid cooling is off.
			Unknown	The tachometer reading is unavailable.
			<tach> L/min - Flow Impeded	The flow reading is lower than the minimum recommended threshold.
13	Liquid Cooling Pump		<tach> RPM	Displays the current tachometer reading.
			Off	Fan is off.
			Unknown	The tachometer reading is unavailable.
			<tach> RPM - Low RPM	Fan tachometer reading is lower than the minimum recommended speed.
15	Scaler Fan (Fan 13)		<tach> RPM	Displays the current tachometer reading.
19	Red FPGA Blower (Fan 19)		Off	Fan is off.
20	Firewall Fan (Fan 20)		Off	Fan is off.
30	Light Engine Intake (Fan 7)		Unknown	The tachometer reading is unavailable.
42	Igniter Fan (Fan 16)		Unknown	The tachometer reading is unavailable.
44	IMCB Fan (Fan 18)		<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.

Serial Group (SST+SERI?)

The Serial Group provides values and fault conditions for serial-related items in Roadie 4K.

#	Status	State	Value	Description
0	Main Control Board S/N		<serial number>	Displays the electronic serial number of the board.
			N/A	Failed to retrieve the value because the serial number was not programmed into the board correctly.

#	Status	State	Value	Description	
1	Backplane S/N		<serial number>	Displays the electronic serial number of the backplane.	
			N/A	Failed to retrieve the value due to an error with the backplane.	
			Initialization Fault	Occurs when the communication link to the ABP, HIP, or one of the CFB138xs could not be established.	
2	Image Processor S/N		<serial number>	Displays the electronic serial number of the board.	
			N/A	Failed to retrieve the value due to an error with the board.	
			Initialization Fault	Failed to establish a communication link to the image processor.	
			Unexpected Behavior	An unexpected fault prevented the entire electronics from initializing. This is a general failure and does not indicate a specific problem with the image processor.	
3	Formatter-Red S/N		<serial number>	Displays the electronic serial number of the formatter.	
4	Formatter-Green S/N		N/A	Failed to retrieve the value due to an error with the formatter.	
5	Formatter-Blue S/N			Power Connector Fault	One of the power rails on the formatter is currently out of specification.
				Initialization Fault	Could not load the formatter's calibration data.
6	Option Card 1 S/N		<serial number>	Displays the electronic serial number of the option card.	
7	Option Card 2 S/N			N/A	Failed to retrieve the value due to an error with the option card.
8	Option Card 3 S/N				Initialization Fault
9	Option Card 4 S/N				
10	Environmental Board S/N		<serial number>	Displays the electronic serial number of the board.	
11	Lamp Motor Board S/N			N/A	Failed to retrieve the value due to an error with the board.
12	Lens Motor Board S/N				
13	Lamp Power Supply S/N		<serial number>	Displays the electronic serial number of the board.	
			N/A	Failed to retrieve the value due to an error with the lamp power supply.	

#	Status	State	Value	Description
30	Secondary Environment Board S/N		<serial number>	Displays the electronic serial number of the option card.
			N/A	Failed to retrieve the value due to an error with the board.

Corporate offices

USA – Cypress
ph: 714-236-8610

Canada – Kitchener
ph: 519-744-8005

Consultant offices

Italy
ph: +39 (0) 2 9902 1161

Worldwide offices

Australia
ph: +61 (0) 7 3624 4888

Brazil
ph: +55 (11) 2548 4753

China (Beijing)
ph: +86 10 6561 0240

China (Shanghai)
ph: +86 21 6278 7708

Eastern Europe and
Russian Federation
ph: +36 (0) 1 47 48 100

France
ph: +33 (0) 1 41 21 44 04

Germany
ph: +49 2161 664540

India
ph: +91 (080) 6708 9999

Japan (Tokyo)
ph: 81 3 3599 7481

Korea (Seoul)
ph: +82 2 702 1601

Republic of South Africa
ph: +27 (0)11 510 0094

Singapore
ph: +65 6877-8737

Spain
ph: +34 91 633 9990

United Arab Emirates
ph: +971 4 3206688

United Kingdom
ph: +44 (0) 118 977 8000