

# Solaria™ Safety and Installation Guidelines

## Instruction Sheet



Refer to the User Manual, provided with the projector for comprehensive information and additional warnings.

### Installation - General

- All installation tasks require a Christie-authorized service technician.
- For CP2220 safe lifting of projector onto optional rack stand or table top requires at least four people. Protect fingers and lift from side edges only.
- For CP2220 use of rear safety strap is MANDATORY to prevent tipping. **NOTE:** When installing the projector on a rack stand, use the foot lock bracket instead of the rear safety strap to prevent the unit from tipping.
- Safety shoes required.
- Watch for sharp edges on internal parts.
- Check with local fire regulations for connection of fire alarm interlock.
- Product cooling requires a heat extractor vented to the outside, as specified in the product User Manual.
- **Coolant:** Do not ingest liquid coolant - contains ethylene glycol. Handle with care and flush immediately if liquid comes into contact with skin or eyes. Inspect all coolant lines and connections before use.
- Opening or removing a projector cover requires a Christie-authorized service technician.

### Installation - Electrical



**CRITICAL SAFETY!** Never defeat the earth ground for any reason. Failure to comply poses an electric shock hazard potentially causing bodily **HARM** or **DEATH**

- For normal operation, do not disable alarm triggers.
- Position all cables away from hot surfaces and ensure they cannot be pulled or tripped over.
- **SHOCK HAZARD!** Shut-off ALL AC wall breakers before opening any enclosure.
- Do not attempt operation if the AC supply and pedestal are not within the specified voltage range.

#### **Specific to CP2220**



**CRITICAL SAFETY!** Protection from overcurrents, short circuits and earth faults must be part of the building installation. Disconnect device (double pole switch or circuit breaker with minimum 3mm contact gap) must be readily accessible within the projection room.

- A 30-32A double pole, UL listed wall circuit breaker is required. It must be part of the building installation and easily accessible. The distance between the wall circuit breaker and the projector must not exceed 20 metres using 10AWG cables OR 30 metres using 8AWG cables.
- For North American installations, use at least 10AWG copper wires for the connection of the main AC supply to the projector's ground lug.
- Copper or aluminum are acceptable as conductor wiring material to terminal block.

#### **Specific to CP2230**



**CRITICAL SAFETY!** Failure to properly connect the lamp leads on the Lamp Power Supply (LPS) and igniter could result in high lamp currents of up to 180 amps flowing into any signal cables and ground leads causing them to overheat.


- When connecting the high current lamp leads between the LPS and igniter **DO NOT reverse connect them**, or damage will occur.
- When connecting the high current lamp leads between the LPS and igniter it is critical the black (-) cathode lead is strongly and **tightly secured at both ends with the washer and lock washer properly in place**, and secured tightly to a torque of 175 inch-lbs, 14.5 ft-lbs or 20 Nm.


### Installation - Lamp and Lamp Leads


- Lamp installation or replacement requires a Christie trained service technician.
- Install only 020-100535-03 Rev. 1a Christie lamp, as specified in the product User Manual.




**EXPLOSION HAZARD!** Handle lamp shipping carton with extreme caution - the lamp is hazardous even when packaged. Dispose of a boxed lamp according to local safety regulations.

 **EXPLOSION HAZARD!** Wear Christie-authorized protective clothing kit #598900-095 (Kevlar jacket, face shield, etc.) whenever the lamp door is open! Never apply a twisting or bending force to the quartz lamp body.

 **EXPLOSION HAZARD!** The lamp is under increased pressure when hot and may explode, causing personal injury and/or property damage. Never attempt to access the lamp directly after use, or while it is ON. Wait at least 15 min. after lamp turns off before powering down the breakers, disconnecting from all AC and opening the lamp door. Ensure the lamp is fully cooled and handle by the **ENDS ONLY**.

 **EXPLOSION HAZARD!** Install bare bulb with extreme caution, rotating at the cathode end (rear) only and gently supporting anode end (front). This bulb is fragile and hazardous at all times.

- Handle by the cathode/anode end shafts only, never the glass. Do not over-tighten or stress the glass.
- Do not pull on the anode wire at the front end of the lamp - this can stress and fracture the lamp.
- Secure lamp lead **FIRST** on lamp cathode connector (rear end of lamp), then remaining 2 igniter wires on TOP.
- Lamp cathode ball joint at rear of lamp must move freely. If necessary, hand tighten using an Allen™ key.
- To prevent unnecessary resistance, ensure proper electrical contact at all lamp connectors.


 **SAFETY HAZARD!** Leads too close to metal parts will cause hazardous arcing during lamp starting pulse. In addition, the lamp may not ignite. Pay special attention to the connection and lead dress of the braided anode lamp lead.


- Do not attempt to ignite the lamp until its power rating (kW) is correctly set in the Install menu.


### Operation - General

- Never operate the projector without the air filter installed. Use only Christie air filters.
- Never apply power to the projector unless the primary lens is installed.
- Never operate the projector or its fans without all covers installed.
- To prevent damage to the cooling system's sealing gasket, always depress the connector tab when inserting the quick-release hose end. Avoid "forcing" together and listen for "click".
- Whenever coolant has been added or replaced, inspect for a possible airlock upon the next projector power-up.
- Never disable a vane switch. Attempting to operate the projector with inadequate airflow can result in overheating of the projector and can lead to damage.
- Do not bend fan impeller blades or loosen fan balancing weights.
- The "RS-232 PIB" port is compatible with Christie accessories only. Do not connect other devices.
- After turning the lamp OFF, wait at least 15 minutes for proper cooling before turning projector breakers OFF.
- Before replacing a LAD filter, ensure it is clean and no loose debris or fibers are clinging to it.

### Operation - Lamp


 **UV/LIGHT HAZARD!** Never look into the projector lens or an open projector, and never look at an operating lamp. The extremely high brightness can cause permanent eye damage.

 **UV HAZARD!** For protection from ultraviolet radiation, keep all projector housings intact during operation.

 **FIRE HAZARD!** Keep hands, clothes and combustible material away from the concentrated light beam.

Some medications are known to make individuals ultra-sensitive to UV radiation. Take adequate precautions to cover and protect exposed skin.

### Service Warnings

 **CRITICAL SAFETY!** Never defeat the earth ground for any reason. Failure to comply poses an electric shock hazard potentially causing bodily **HARM** or **DEATH**. Never perform an AC leakage test.

- To prevent physical injury or equipment damage make sure you have read and understood the *Service Guidelines* outlined in the product *Service Manual* before performing any service procedure. It is also important that you comply with all other warnings stated throughout the product User Manual, Service Manual and this instruction sheet.
- Maintain plastic protection covers installed over internal breaker connections and over ballast terminals.
- Be aware some surfaces inside the projector may be hot.
- Do not ingest the liquid coolant, which contains ethylene glycol. Handle with care and flush immediately if the liquid comes into contact with skin or eyes.
- If you must be exposed to an open projector, wear protective clothing and ultraviolet-blocking eyewear with side-guards.
- Perform servicing **ONLY** after becoming thoroughly familiar with all service guidelines. Noncompliance increases the risk of hazards and injury to the user.
- Do not modify any circuits.
- Do not drop or leave tools in the projector or rack stand (if used).