



GENERAL LED CARE

MAINTENANCE NOTE!

Fire Research LED lighting can provide thousands of hours of illumination. To ensure that the FRC LED fixtures on your apparatus do just that, here are some advisories that your maintenance team should follow:

- LED lights require cooling to ensure long life. Be sure that cooling vents on your LED fixtures are not obstructed in any way.
- Be very careful not to use Loctite or similar cyanoacrylates adhesives or “super-glues” anywhere near your FRC LED fixtures. The vapors from these adhesives have been known to crack the lamphead glass even with small amounts of exposure.

If you have any questions about how to maintain any Fire Research product, please contact your FRC representative.



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SPECTRA
LED SCENE LIGHT



SAFETY SUMMARY

FRC lighting products are engineered and manufactured with safety in mind. It is critical that FRC scene lights are installed, maintained, and operated correctly. Read and understand all instructions before installing, performing maintenance, or operating.

All components, equipment, and installation procedures shall conform to NFPA 1901, *Standard for Automotive Fire Apparatus* and NFPA 70 *National Electrical Code*.

The following safety precautions shall be observed.

General Safety Precautions

Ensure power is off prior to connecting or disconnecting wires and plugs or performing maintenance.

Scene lighting lampheads are designed for outdoor use, and will be extremely hot when operating. Do not use in areas with limited ventilation.

Installation Safety Precautions

CAUTION: Do not use Loctite on any screws near the lamphead lens. FRC led lampheads use Lexan lenses that can become brittle and prone to cracking when exposed to Loctite compounds.

Ensure power is off prior to connecting wires or cable to the power source.

Connect only to the type of power source as indicated on the lamphead identification label.



Ensure an appropriate sized circuit protection device is installed (circuit breaker or fuse). Do not use GFI protection with an AC LED light, as the breaker will trip when the light is powered.



Refer to the tables on page 2 for DC lighting fixtures. DC lights may not fully illuminate without sufficient gauge wire. Use a minimum of 16 AWG wire to connect AC lights.



FRC lights are intended for mounting to a noncombustible surface only. Do not install insulation within 76 mm (3 in) of any part of the light, lighting fixture, or its components.

Install approved rubber or plastic grommets or bushings where wires or cable pass through a surface.

Ensure all wire connectors or terminals provide a positive mechanical and electrical connection.

Electrical connections not enclosed in a box must be covered with an insulation equivalent to that on the conductors.



Lampheads are extremely hot when operating, do not mount such that personnel or equipment could inadvertently come in contact with the lamphead.

Recessed lights require a minimum of 3 inch clearance between wall insulation and the light housing.

Operation Safety Precautions

Operate portable lighting products only from the power source indicated on the identification label.



During operation use the handle to move the light, the housing will be extremely hot.

Ensure that all lighting components are clear of obstructions when raising telescopic poles.

Ensure that telescopic poles are lowered and stowed before moving the vehicle.

Maintenance

Use a clean soft cloth, mild soap, and water to clean the lens.

Note: FRC led lampheads use Lexan lenses and cleaning with abrasive materials, solvents, or most chemical cleaners can cause lens surface degradation and reduced performance of the light. Some chemicals will cause the lens to become brittle and prone to cracking.