



# Laser Upgrade Systems

The perfect fit for your cinema

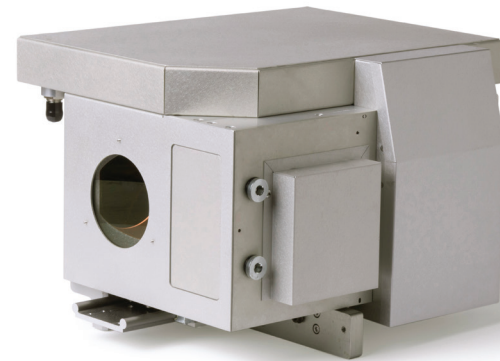




# Helios Laser Upgrade Systems Components



- Convert to laser technology at a fraction of the cost of a new laser projector.
- Extend the life of your existing xenon projector.



## Laser light engine

- Laser phosphor technology.
- Independent blue channel for accurate color point control.
- DCI P3 color gamut
- Compact optical design fits multiple projectors.
- Liquid cooling system.
- Long life, proprietary phosphor wheel.
- High performance, long life laser diode modules.



## Cooling unit

- Rack mountable (9U size).
- Magnetic drive seal-less coolant pump.
- High performance variable speed fans.
- Long life coolant.



## Laser power supply

- Compact design. Fits easily in space formerly occupied by xenon lamp power supply.
- High reliability AC/DC power converter modules.
- Monitors laser diode temperatures and electrical characteristics.



## Control unit

- Seamless interface with projector. Plugs into same connector as lamp power supply.
- Graphical user interface available with service and user level access.
- Monitors system temperatures, coolant flow and other key parameters.





# System Configurations

- Components fit entirely within projector.
- Same major components. Different adapter parts.
- Easy conversion. Reversible.

## Sony

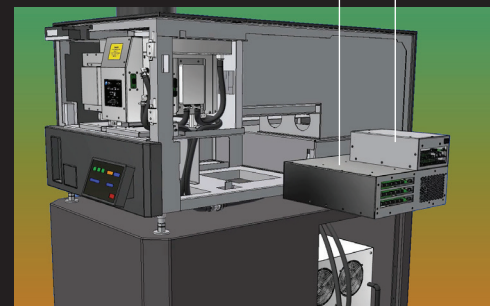
### LR-S01-LP Laser upgrade system for the Sony SRX-R320

Matches light output of 4 kW xenon lamp



Laser Light Engine  
Cooling Unit

Control Unit  
Power Supply



## NEC

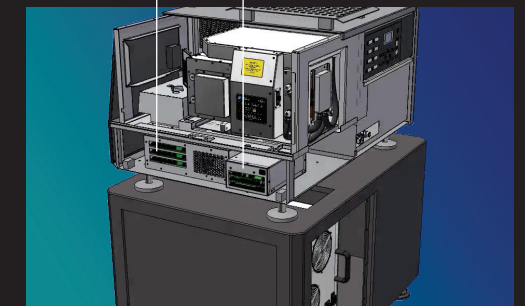
### LR-N01-LP Laser upgrade system for the NEC NC2000C

Matches light output of 4 kW xenon lamp



Laser Light Engine  
Cooling Unit

Laser Power Supply  
Control Unit



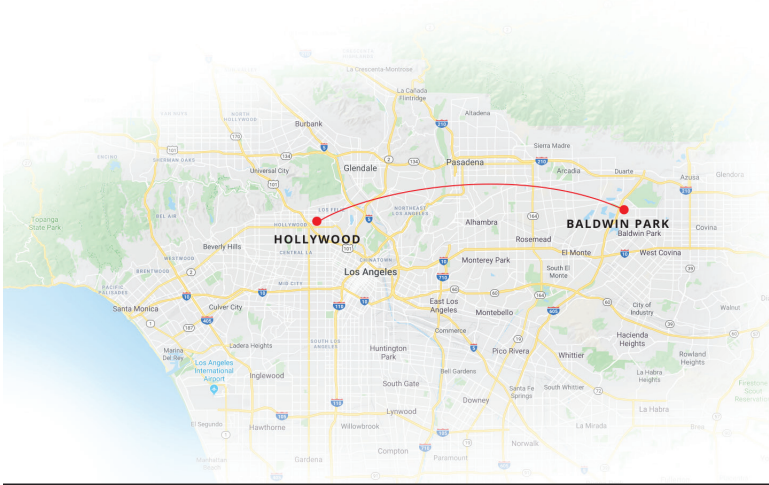


Laser + Xenon – The Best of Both Worlds  
LTI is the only manufacturer that supplies  
both laser and xenon.

Christie

LR-C01-LP  
Laser upgrade system  
for the Christie CP2220

Matches light output of  
Christie CDXL-30SD xenon lamp.



All LTI manufacturing, engineering and business operations are headquartered just a few miles from Hollywood, California, in Baldwin Park, California.

FEATURES

- Designed and manufactured in the USA.
- Modular, compact laser upgrade system.  
Fits multiple projectors.
- Lower total cost of ownership than xenon lamps.
- Fast conversion from xenon lamps.
- Can be relocated to other projectors with  
simple adapter change.
- Eliminate performance, safety and environmental  
issues associated with xenon lamps.
- Saves energy: lower electrical consumption,  
less cooling required.
- Purchase or lease options.

TECHNICAL DATA

Mechanical		
Component	Dimensions (mm)	Weight (kg)
Laser light engine	388 x 304 x 245	20
Laser power supply	382 x 331 x 115	12
Control unit	250 x 153 x 92	4
Cooling unit	570 x 483 x 600	18

**Electrical requirements**  
Laser power supply 100-240 VAC, 17.1-12.3 A, 50/60 Hz  
Control unit 100-240 VAC, 2.3-1.1 A, 50/60 Hz  
Cooling unit 90-264 VAC, 4.85-2.6 A, 50/60 Hz

**Environmental**  
Operating temperature: 5 to 35 deg C  
Operating humidity: 10-85% non-condensing  
Storage temperature: -10 to 50 deg C

**Warranty**  
3 years parts



Date of release: March 2020

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