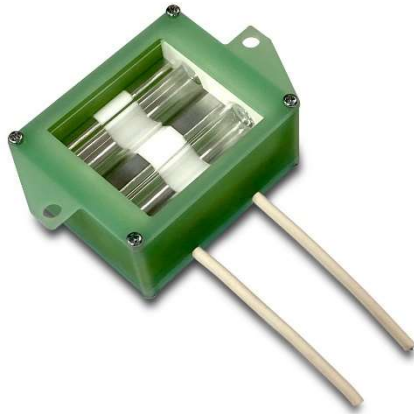


EL09-E

Module, Scalable, Excimer lamp



Example 2 X 2 configuration- 2 electrodes, 2 excimer tubes

Excelitas excimer lamps utilize nanosecond duration excitations of exciplex species to generate narrow bandwidth 222nm ultraviolet light safely and efficiently. The 222nm wavelength is eye safe and has proven effective at combating a wide variety of microbes, making Excelitas excimer products worthy of consideration in a stand-alone system or integrated into multiple modality disinfection solutions. Long lifetime ensures reliable usage long after other technologies degrade in efficacy or require a bulb replacement.

The Excelitas excimer scalable module encapsulates excimer lamps with an integrated reflector, transverse discharge, and external electrodes that maximize lamp lifetime, all contained in a rugged, cost effective, but aesthetically pleasing module. The module can be scalable in length and width dimensions, allowing for a single power control source and minimizing dead regions between tiled modules.

Key Features

- High-intensity emission at 222nm
- >3000 hours lifetime
- Adjustable in length and width for custom applications
- RoHS Compliant

Applications

- Air disinfection; viral and other microbes
- Surface disinfection; viral and other microbes
- Food processing
- Pharmaceutical processing
- Packaging sterilization



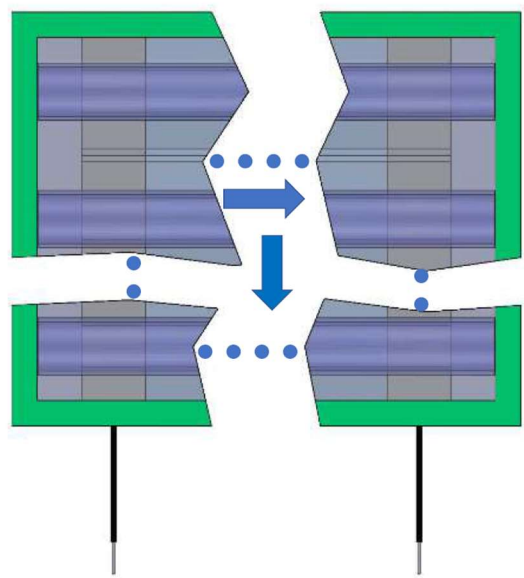
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Module, Scalable, Excimer Lamp



Mechanical Specifications

Description	Nominal
Module Depth	28mm
Electrodes (width)	2 to 5, standard
Excimer tubes (length)	2 to 5, standard
Wire Length	TBD
Weight	TBD

Operating Specifications

Description	Nominal
Power Input	Depending on size
Irradiance*	TBD
Radiant Flux*	TBD
Warm-up time	<100 μsec
Surface Temperature	120°C, Maximum
Lifetime**	>3000 hours typical

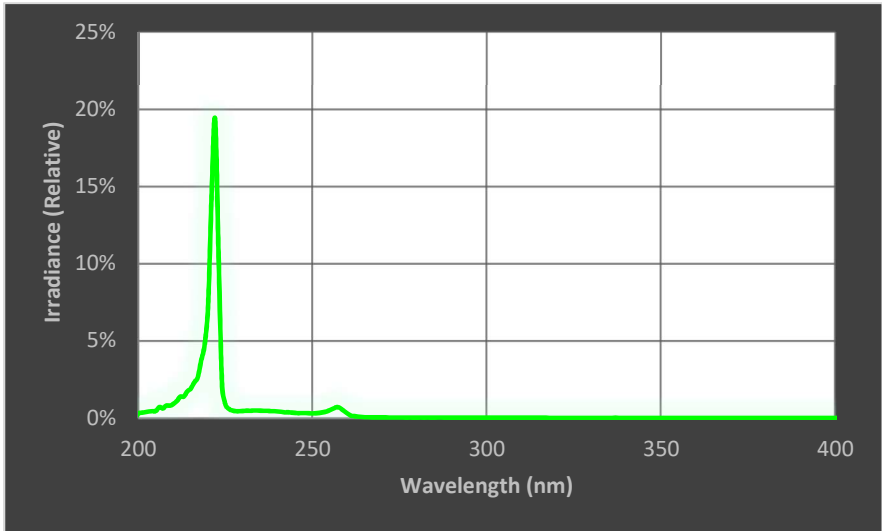
*Per Excelitas measurement method

**End of Life- 30% reduction in output from new

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Module, Scalable, Excimer Lamp

Spectral Output



Environmental Specifications

Description	Nominal
Ambient Starting Temperature	0°C Minimum
Operating Humidity	85% Maximum, non-condensing
Environmental Operating Pressure	700 to 1050 hPa
Storage Temperature	TBD
Storage Humidity	85% Maximum, non-condensing

Notes:

1. Lamps require ambient air cooling.
2. Operational warnings:
 - Do not touch the lamp module during operation. High voltage applied during operation.
 - Do not place flammable items nearby during operation.
 - For additional precautions, please refer to the lamp module specification sheet.
3. Spectral output is unfiltered.
4. For disposal, standard practices apply. No special requirements.

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Module, Scalable, Excimer Lamp

RoHS Compliance

The excimer lamp is designed and built to be fully compliant with the European Union Directive 2015/863/EU – Restriction of the use of certain Hazardous Substances (RoHS) in Electrical and Electronic equipment.



About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team consists of more than 7,500 professionals working across North America, Europe and Asia, to serve customers worldwide.



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