

EX-PEN

Excimer Lamp Light Source



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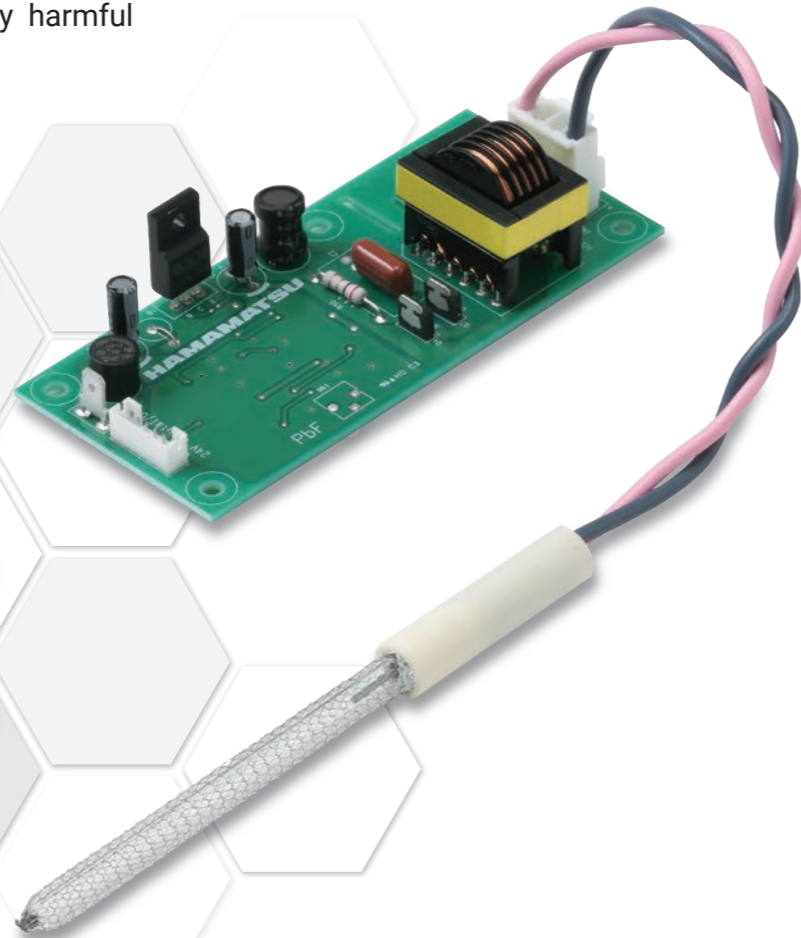
This is the world's smallest class excimer lamp designed for easy assembly into equipment. Its compact size and light weight allow a free and flexible design to achieve equipment downsizing and higher performance. This excimer lamp is an eco-friendly product since it uses absolutely no mercury, which is designated as an environmentally harmful substance.

Compact and lightweight

OEM type

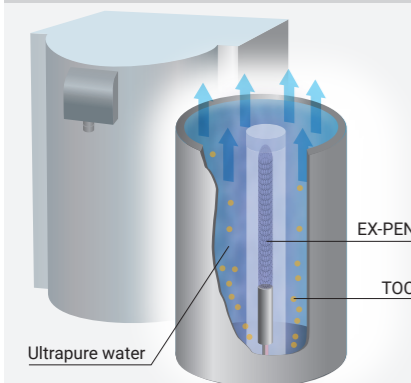
Mercury-free

Instant ON / OFF

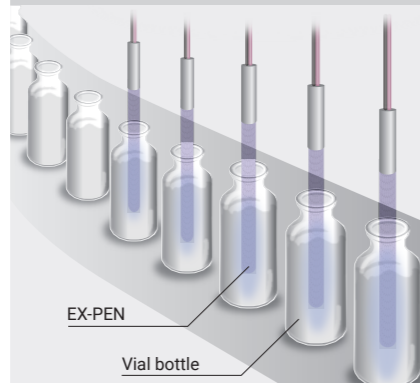


Applications

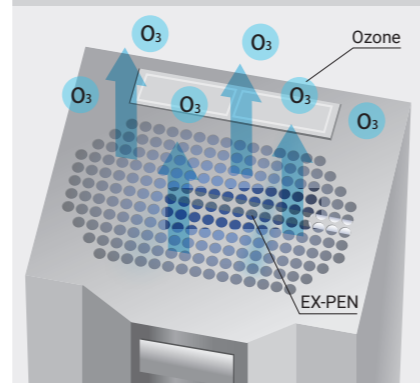
- Oxidative decomposition
- TOC measurement (ultrapure water production, etc.)
- VOC decomposition (removal of harmful substances, etc.)



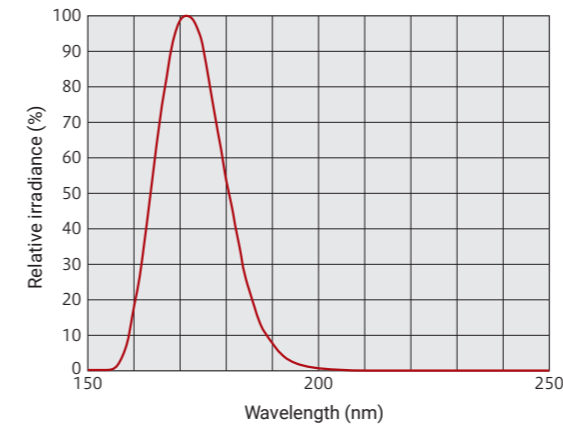
- Fine surface modification



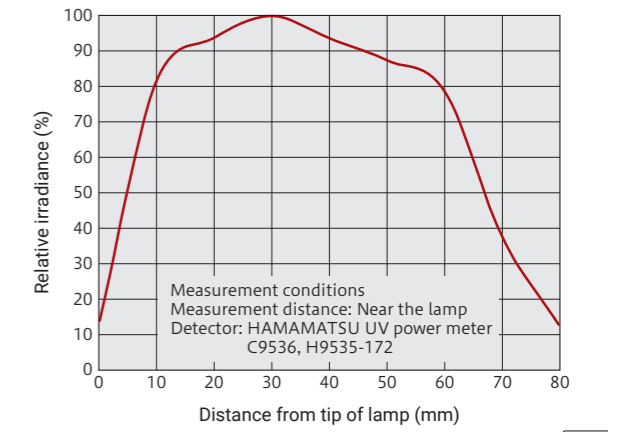
- Ozone generation



Spectral distribution (Typ.)



Irradiance distribution (Typ.)



Specifications

Excimer lamp L15444

Parameter	Description / Value	Unit
Tube material	Quartz glass	—
Peak wavelength	172	nm
UV irradiance *1	Typ. 7 *2	mW/cm ²
Light output stability	Drift Typ. 5	%/h
Guaranteed life *3	2000 *2	h
Cooling method	Not required	—
Operating temperature range	+5 °C to +35 °C	—
Storage temperature range	-5 °C to +55 °C	—
Operating humidity range	30 % to 80 % (no condensation)	—
Storage humidity range	Below 80 % (no condensation)	—

*1: It is the value measured with HAMAMATSU power meter C9536 and H9535-172 near the lamp.

*2: It is the value measured with power supply for excimer lamp C15445-01.

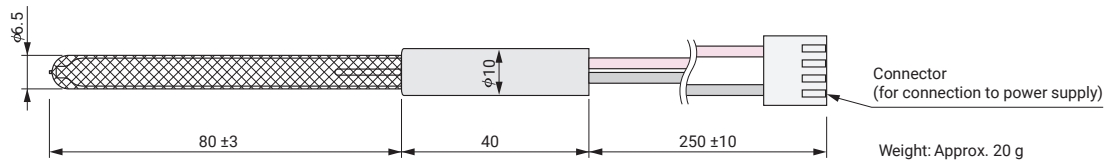
*3: The life end is defined as the average time when UV irradiance falls below 50 % of its initial value or when irradiation becomes impossible.

Power supply for excimer lamp C15445-01

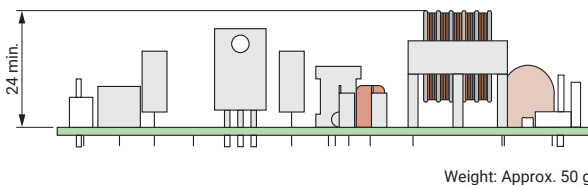
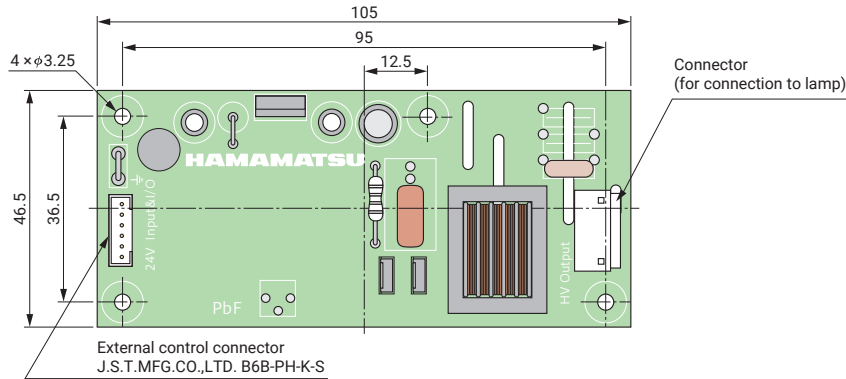
Parameter	Description / Value	Unit
Input voltage (DC)	24	V
Power consumption	Max. 8	W
Cooling method	Not required	—
Operating temperature range	+5 °C to +35 °C	—
Storage temperature range	-5 °C to +55 °C	—
Operating humidity range	30 % to 80 % (no condensation)	—
Storage humidity range	Below 80 % (no condensation)	—
External control	Irradiation control, irradiation signal	—
Applicable standards	EMC standards	IEC 61326-1 Emission limits: CISPR 11 Group 2 Class A Immunity requirements: Table 2
	Safety standards	IEC 61010-1/A1

Dimensional outlines (Unit: mm)

●Excimer lamp L15444



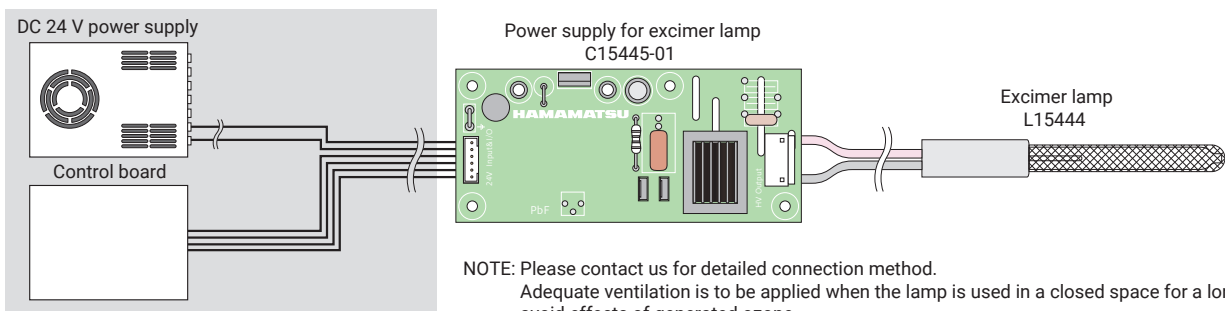
●Power supply for excimer lamp C15445-01



External control connector connection

Pin No.	Signal	
1	Input voltage (+24 V)	Input
2	GND.	—
3	Irradiation control signal	Input
4	Irradiation control signal RTN.	—
5	Irradiation signal	Output
6	Irradiation signal RTN.	—

Connection example



NOTE: Please contact us for detailed connection method.

Adequate ventilation is to be applied when the lamp is used in a closed space for a long time to avoid effects of generated ozone.

The instrument design should deal with ozone effect.

Related product



DUV-LED spot light source

This is spot-irradiation type of deep UV-LED light source (deep UV: 280 nm). The compact palm-size design, with four independent driven heads, can be used in combination with UV (365 nm) to cure UV adhesives (tack removal). It is also expected to be applied to UV sterilization by UVC light, which has a strong sterilizing effect, and to various types of analysis.

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