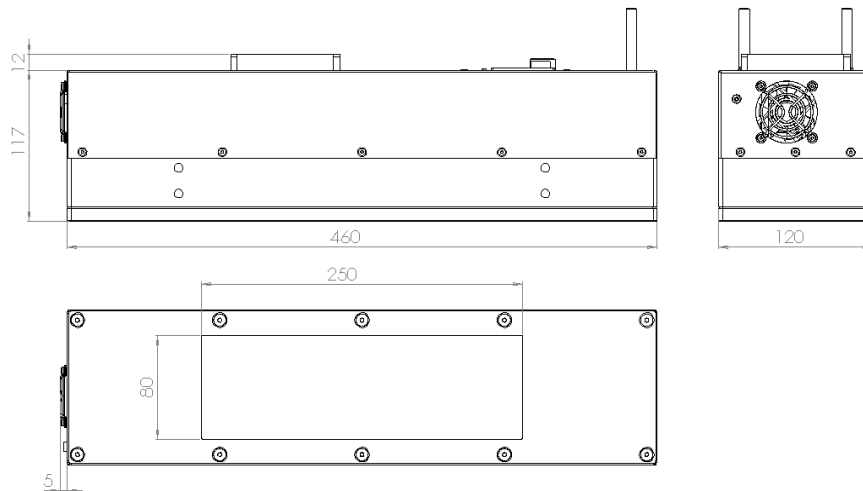


XERADEX® XIS 250x80

Technical Information – Excimer irradiation system

Revision 2.2 - 05/2026

**Radium
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Introduction

The XIS module is a compact excimer irradiation system for industrial and laboratory applications. It supports XERADEX L32 250 (172 nm) and XERADEX C32 250 (e.g. for 222nm) lamps and offers local front-panel operation and full external control via analog or RS485 interface.

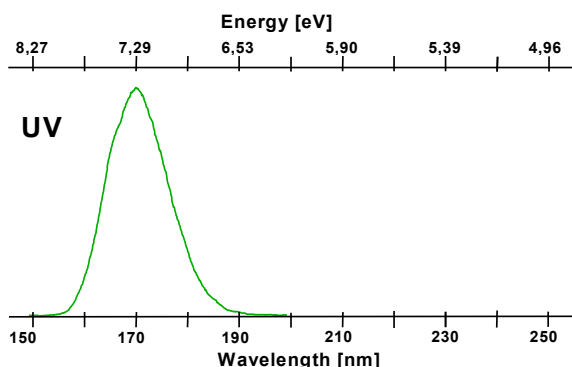
Electrical data

Mains input	100...240 V AC
Mains frequency	47...63Hz
Mains connector	Power plug 3-pin (IEC C14)
Input Power (max.)	90 W

Spectral data

Peak wavelength (*)	172 nm
Generates ozone	yes

(*) other wavelength on request



Operating conditions

Burning position	any
Cooling (lamp)	not necessary
Cooling (electronic)	air flow / fan inside

Interfaces

Controlling	Terminal block (analog or digital RS485)
Nitrogen inlet/outlet	pipe (stainless steel) d8mm

Lifespan (lamp)

Recommended service life @ 70W	1500 h
Radiation flux at service life end	> 70 %

Dimensions

Overall length	460 mm
Overall width	120 mm
Overall height	117 mm
Radiant area (window dimension)	250 mm x 80 mm
Weight	7 kg

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Example applications

- Surface treatment
 - Removal of organic residue, resist
 - Cleaning of photomasks
 - Etching of plastic surfaces
- Activation of surface bonds
 - Improved deposition (photoresist, detergents)
 - Adjustment of contact angle
- Photo induced processes
 - Matting of lacquer
 - Ozone production
 - UV/ozone cleaning without external ozoniser

Advice

- Lamp emits high energy UV radiation which is readily absorbed by oxygen under generation of ozone.
- Install in a dry location with ambient temperature below 40 °C.
- Mount in any orientation provided ventilation openings remain unobstructed.

XERADEX® XIS 250x80

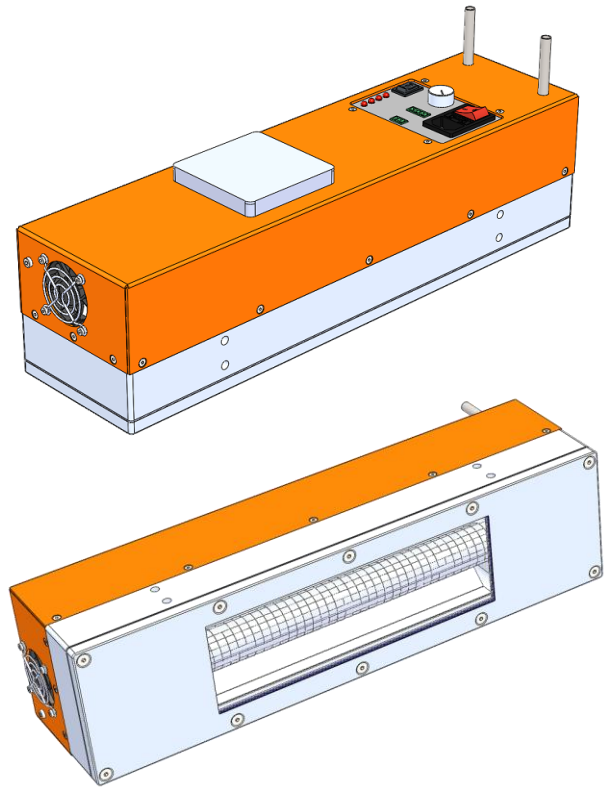
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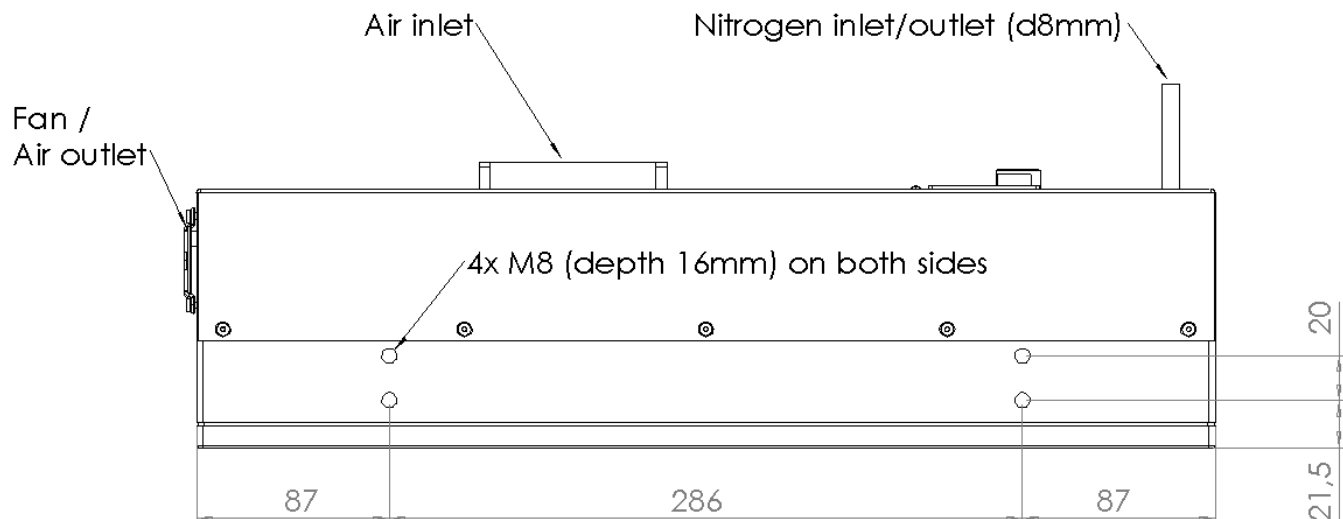
Product Specifications

- **Integrated VUV reflector** for optimal optical efficiency
- **Front window made of special quartz glass**, ensuring maximum transmission of VUV radiation
- **Excimer lamps options:**
 - XERADEX L32/250 (for 172 nm)
 - XERADEX C32/250 (other UV wavelengths)
- **Electronic control gear:** DBD 70 inside
- **Dimmable lamp power** from 20% to 100%
- **Full external control capability**, either via:
 - Analog control signal** – ideal for fast, straightforward integration
 - Digital RS485 interface** – robust, noise-resistant communication for demanding industrial environments
- **Robust housing** made from aluminium and stainless steel



Mounting holes

(4x M8 mounting holes on both sides)



Contact address

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The technical data given in this data sheet are nominal values.
Variations with individual devices are possible.

Technical data are nominal values. Subject to change without notice. Errors and omissions excepted.