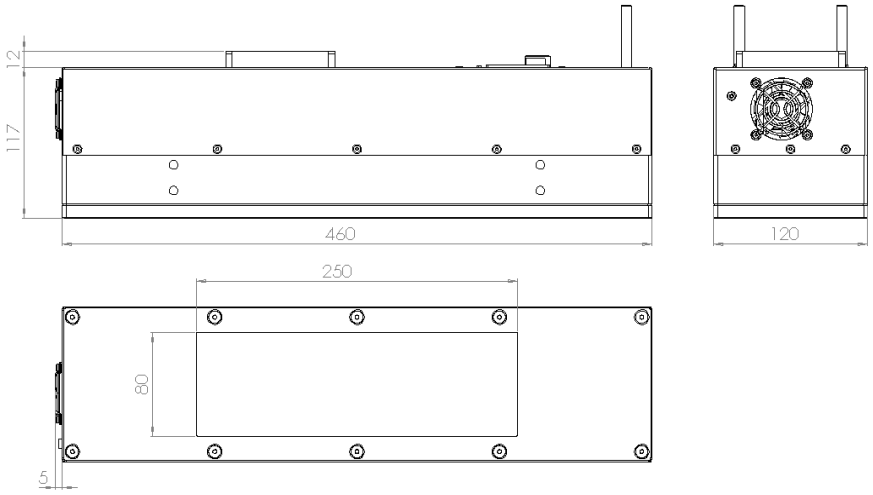
XERADEX® XIS 250x80

Technical Information – Excimer irradiation system

Revision 2.1 - 02/2026



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.

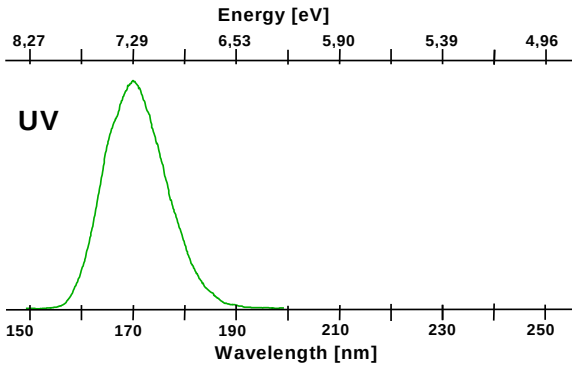
Electrical data

Mains input	80…250 V AC
Mains frequency	47…63Hz
Mains connector	Power plug 3-pin (IEC C14)
Input Power (max.)	100 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
Article No.	34317694

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.

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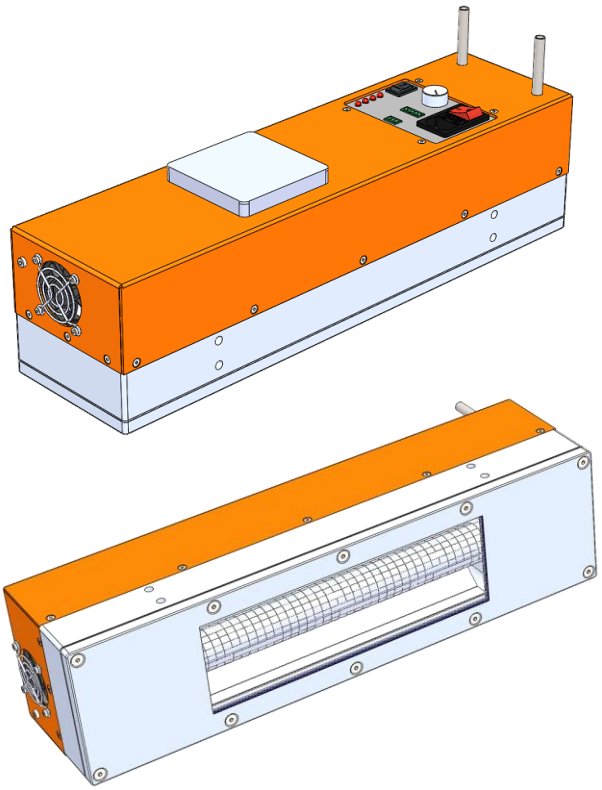
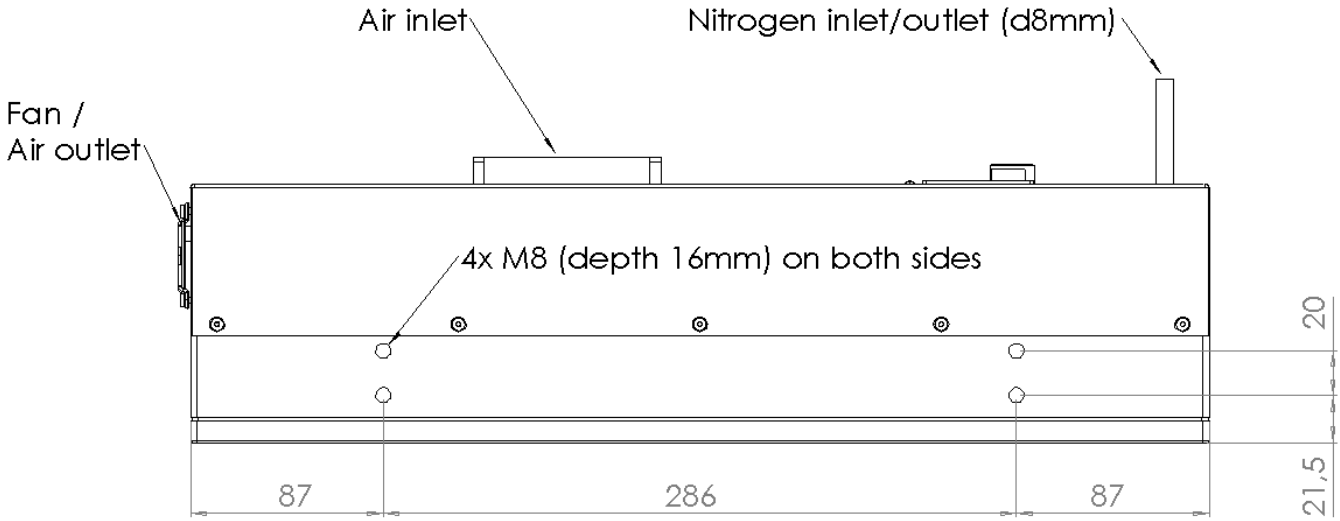
Product Specifications

- **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)



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