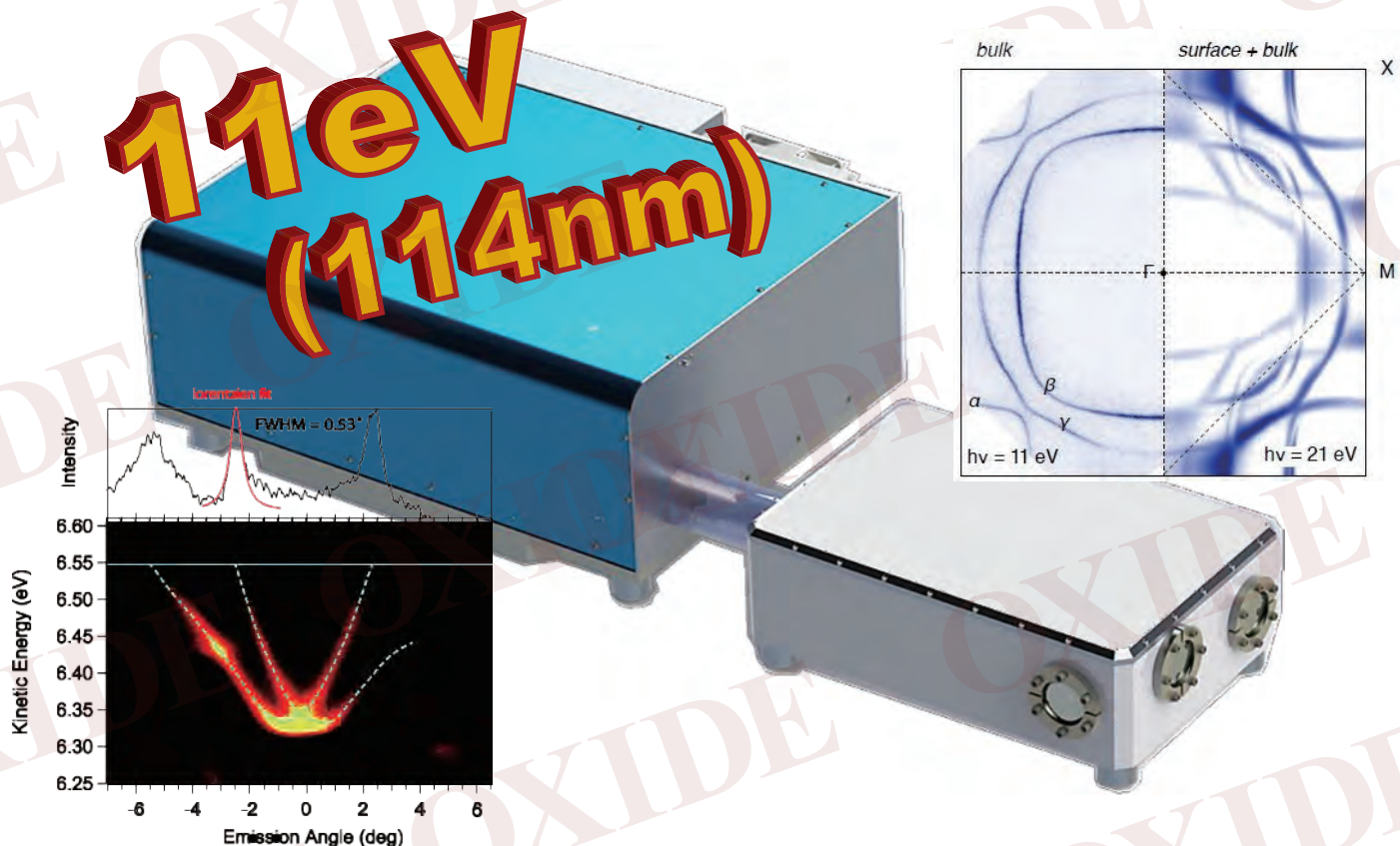


For **P**hoto**e**mission **E**lectron **M**icroscopy (**PEEM**),
Angle-**R**esolved **P**hoto**e**mission **S**pectroscopy (**ARPES**)

Pulsed VUV Laser

UV-X

Oxide acquired
VUV business
from Lumeras.



The UV-X series of pulsed vacuum-ultraviolet lasers have been designed for laboratory-based, high-resolution photoelectron spectroscopy (PES) applications.

The compact geometry and flexible beam delivery system of the UV-X source facilitate easy integration into the laboratory environment.

Each UV-X consists of a high-power laser head, ultraviolet monochromator and focussing module, and wired touch-screen control interface.

Motorized optics are provided standard for hands-free alignment of the ultraviolet beam into the user chamber.

Engineering assistance is provided to customize the UV-X source and beam delivery hardware to the user vacuum apparatus.

OXIDE

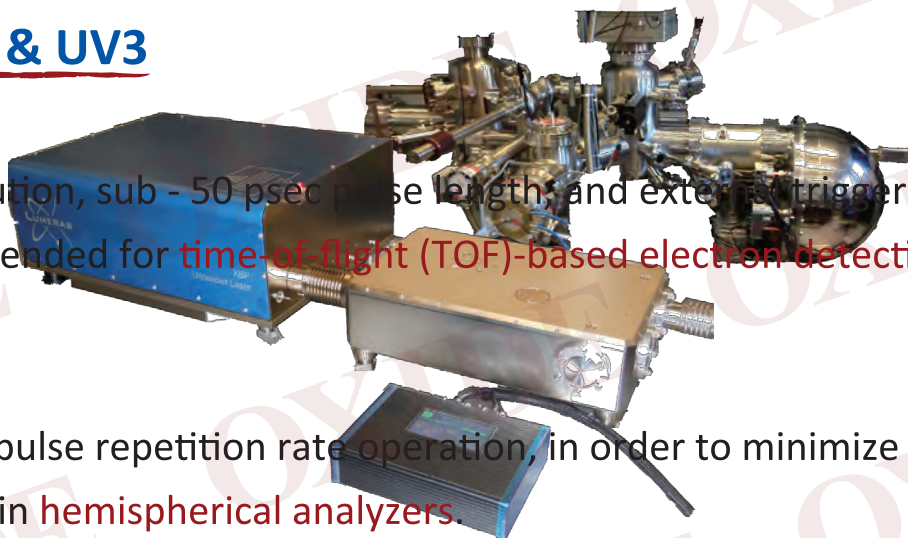
Application for UV2 & UV3

UV-2 sources

With high timing resolution, sub - 50 psec pulse length, and external triggering capability, are recommended for **time-of-flight (TOF)-based electron detection methods**.

UV-3 sources

Optimized for 50 MHz pulse repetition rate operation, in order to minimize space-charging effects in **hemispherical analyzers**.



Optical Characteristics

Photon energy: 10.897 eV (113.785 nm)

Pulse duration:

UV-2: < 50 psec, **UV-3:** < 20 psec

Repetition rate:

UV-2: < 0.5-5 MHz, **UV-3:** < 50 MHz

Average power: > 10 μ W (1E+13 photons/sec)

Pulse bandwidth: < 0.1 meV (0.001 nm)

Polarization: Linear/horizontal

Beam size at sample: < 0.25 mm FWHM

Beam height: < 4.00" (101.6 mm)

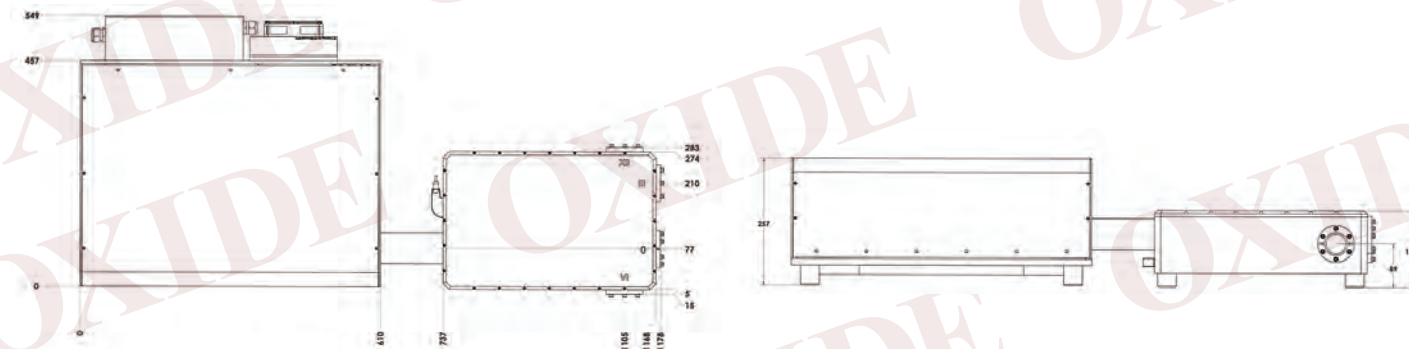


Options

1. 11eV Flux Control option
2. Polarization Control option
3. Focus Enhancement option
4. UV-X-ACC option

Accessory hardware package to adapt UV-3 laser to UHV PES system

Dimensions



OXIDE

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