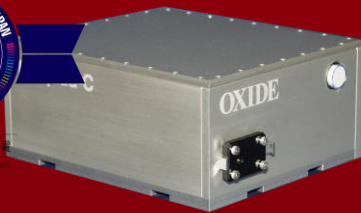


Laser Solution Provider

OXIDE

High-performance lasers for ultra-high resolution ARPES



Features

Continuous wave DUV laser sources

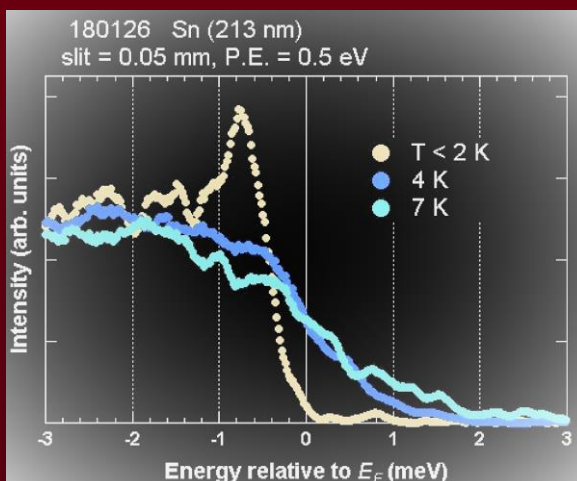
Wavelengths 213nm (5.8eV), 266nm (4.7eV)

Excellent beam quality

Compact geometry (350mm × 590mm × 124mmH)

Long life and stable operation

< 0.1 meV measurement resolution



ARPES Spectra of Sn

Measurement parameters

Photon energy **5.8 eV**

Sample temp. **< 2K**

ΔE **62.5 μ eV**

Acquisition time **< 5 min.**

Data courtesy of Shin group, Univ. Tokyo ISSP

sales@opt-oxide.com

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Specifications

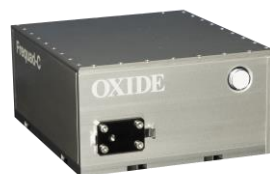
Item#		213 nm	266 nm
Optical	Wavelength	213 nm (5.8 eV)	266 nm (4.7 eV)
	Output Power	1 mW	2.0 / 1.0 / 0.7 / 0.5 / 0.3W / 50 mW / 20 mW
	Linewidth	< 1MHz (0.15 fm)	< 1MHz (0.15 fm)
	Power Stability	TBD	< ± 1 % / 8 hrs
	Extinction Ratio	> 100:1	> 100:1
	Polarization	Vertical, Linear	Vertical, Linear
	Beam Diameter	3 mm ± 0.3 mm	3 mm ± 0.3 mm
	Divergence (1/e ²)	< 0.2 mrad	< 0.2 mrad
	Ellipticity	≥ 85 %	≥ 85 %
General	Power Supply	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
	Power Consumption	TBD	< 340 W
	Cooling	Air	Water or Air



Frequad-HP
266nm, 0.7-2.0 W
240 x 840 x 160 mm



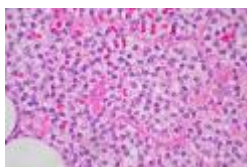
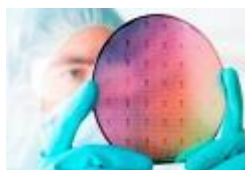
Frequad-M
266nm, 0.3-1.0 W
350 x 590 x 124 mm
(213-nm laser is designed In the same size)



Frequad-C
266nm, 20-50 mW
153 x 202 x 79 mm

Applications

- Photoemission Spectroscopy
- Photoemission Electron Microscopy(PEEM)
- Semiconductor Inspection
- Raman Spectroscopy
- Photoluminescence
- Disk Mastering
- Fiber Bragg Grating



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