

Coherent, EUV-wavelength light, made through high harmonic generation (HHG), has finally come of age. XUUS 5 is KMLab's fifth generation of EUV conversion platform designed to offer "black-box" conversion of ultra-short, infrared laser pulses into short wavelength, laser-like radiation.

Applications

- Photo Electron Spectroscopy
- Coherent Diffractive Imaging
- Time Resolved EUV Spectroscopy
- Attoscience
- Advanced Tomography

KMLab's patented use of fiber-based HHG architecture ensures repeat-able, highly-stable, bright and low gas-usage generation of EUV light.

Features

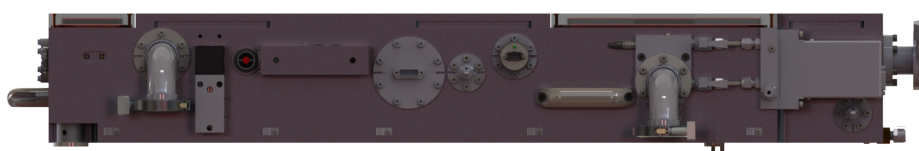
- High Brightness EUV conversion
- High Efficiency EUV conversion, when paired with a KMLabs RAEA Amplifier
- Low Gas Usage
- Active Stabilization of Input Beam

Options

- Long Wavelength (~30nm)
- Short Wavelength (~13nm)
- Call for other options



Top view



Side view

Specifications

Wavelength Range (for ~800nm pump)	~10-50nm
Flux	Up to 10^{12} ph/s/harmonic
Flux Fluctuations (>8 hours)	<5% RMS
Pointing Fluctuations (> 8 hours)	<5 μ rad RMS
Beam Height	4.5" (114.3mm)
Dimensions (mm)	1200 L x 330 W x 176 H