

Off-plane X-ray Czerny Turner

The OP XCT spectrometer design is intended for extreme and vacuum ultraviolet wavelengths, ~8 to 125nm (10 to 150eV). It is useful as a monochromator with point-to-point imaging for high harmonic laser generation experiments like photoemission spectroscopy, pump probe ARPES and so on.

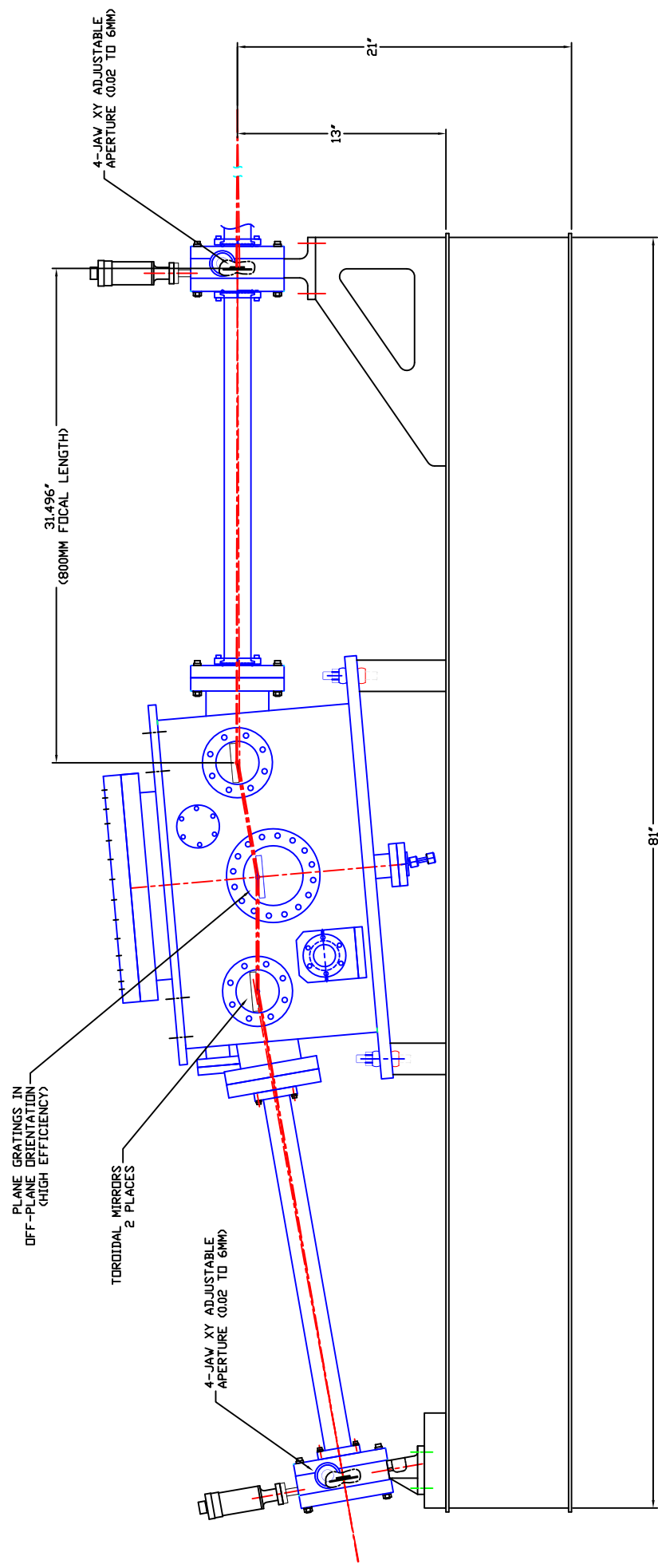
This miniature beam line is ideal for in laboratory experiments with laser sources. The grazing incidence off-plane optical system is very efficient, has good image formation and uses easy to obtain plane diffraction gratings.

We are happy to present investigators with a unique spectrometer (spectrograph) useful for a variety of spectroscopy techniques.



Focal Length (mm)	800			
Angle of Incidence (degrees)	85			
Acceptance (milli radians)	8			
Reproducibility (nm)	0.005 (with 1200g/mm grating)			
Grating Selection (g/mm)	1800	1200	600	300
Resolution (nm, FWHM)	0.06	0.08	0.16	0.32
Grating Range (nm)	0 to 45	0 to 70	0 to 140	0 to 280
1 st Order Blaze (nm)	44	27	84	113
		19	30	81
		5	14	
		3		

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SOURCE: XCT CHAMBER ASSY 8-7-12.DWG
 REF: XCT OP TOP LEVEL NO 100-111672

UNLESS OTHERWISE SPECIFIED		MODEL NO.	XXXXXX
DIMENSIONS ARE IN INCHES		PART NO.	XXXXXX
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRAWN BY	JYZ/12/19/12
FRAMES	±1/16"	CHECKED	ENGINEER
ANGLES	±1/2°	ENGINEER	JYZ/12/19/12
XX	±0.005	QTY PER ASSY	1
XXX	±0.005		
SURFACE QUALITY 63/ MAX REMOVE ALL BURRS & BREAK SHARP EDGES .010 MAX. R.			
NEXT ASSY.			
MATERIAL:			
FINISH:			

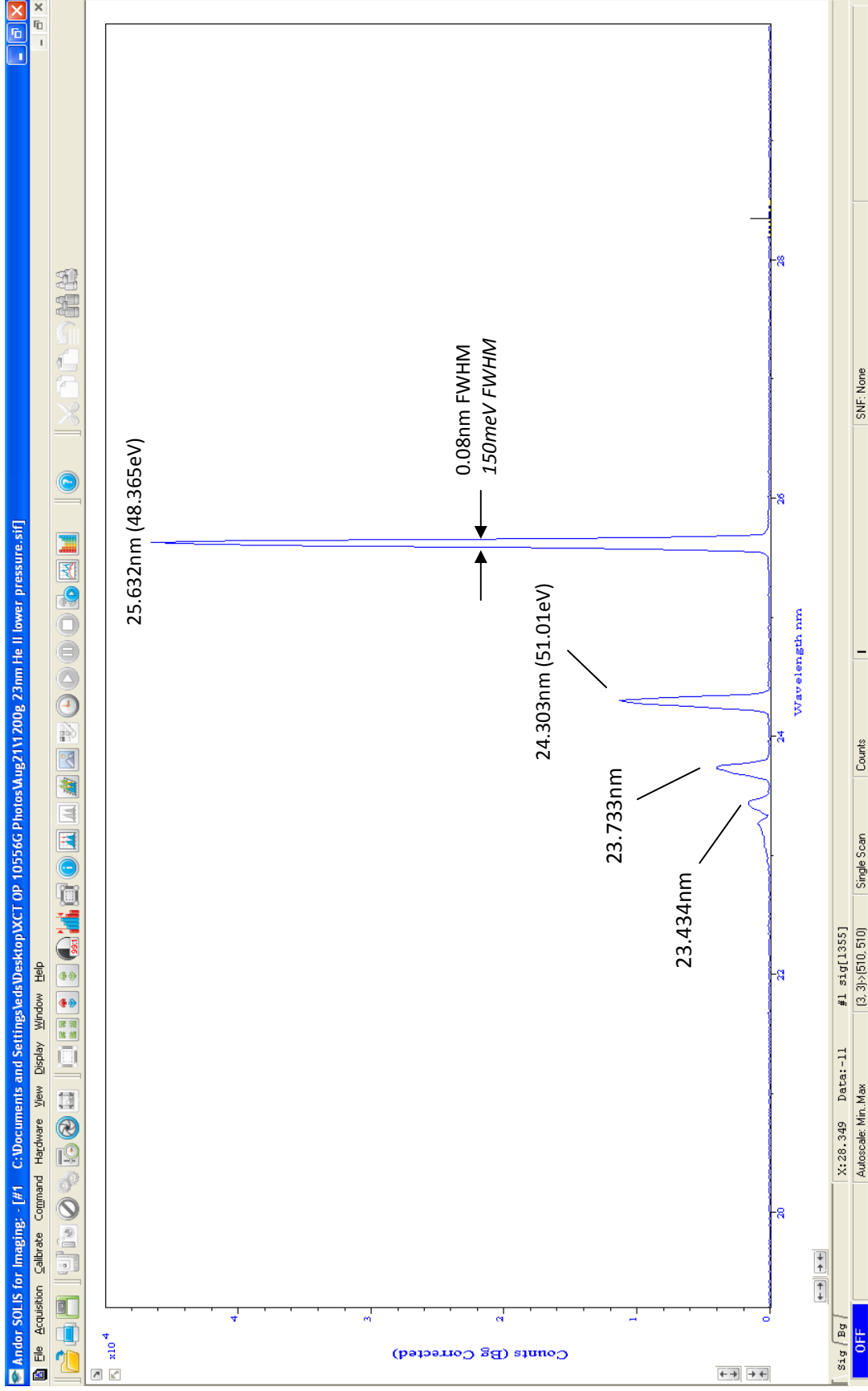
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 7A STUART ROAD, CHELSEA, MA 01824, TEL. 978-286-4512

DESCRIPTION:
XCT OP MONO CHROMATOR PICTORIAL

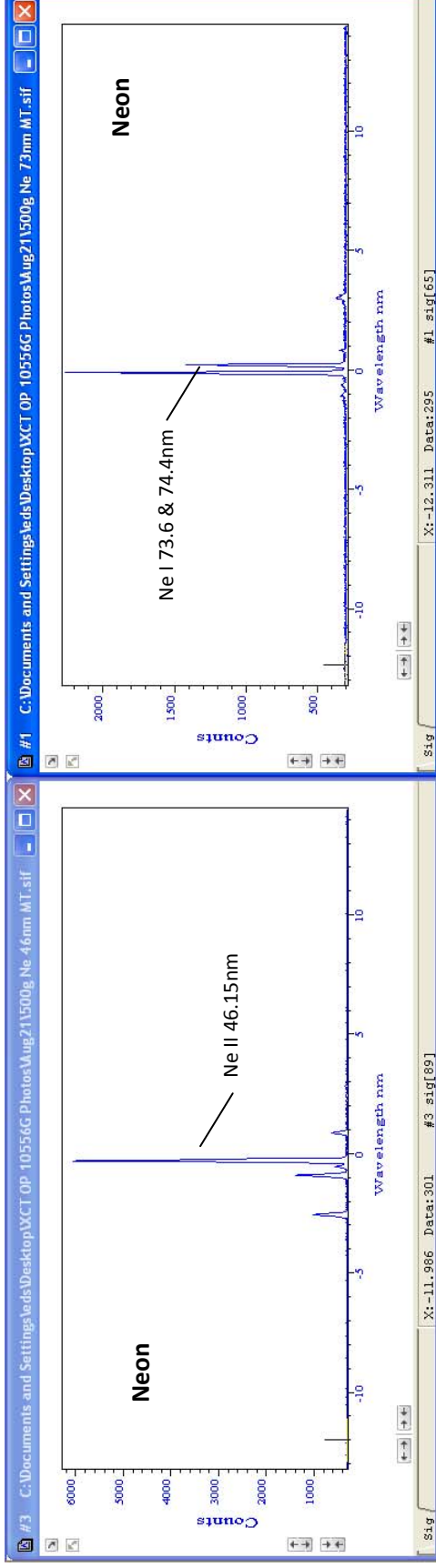
SIZE: D
 DWG NO: 500-111693
 REV: 0

SCALE: 1/1
 JOB NO: 10556
 SHEET 1 OF 1

OP-XCT Data, Helium II (1200g/mm, 50um ent, CCD detector)



OP-XCT Data, Helium & Neon (500g/mm, 50um ent, CCD detector)



OP-XCT Data, Images

