Side by Side Comparison of VUV Hydrogen and Deuterium Light Sources with Magnesium Fluoride Windows

	HHeLM-L	D2ArCM-L	Units
Status	**Production**	**Production**	
Peak Wavelengths Ly Alp	**121.6**	**121.5**	**NM**
Peak Wavelengths H2/D2 VUV	**110-180**	**110-180**	**NM**
Peak Wavelengths H2 UV	**180-350**	**180-350**	**NM**
VUV Flux H/D Ly Alp	**3×10^{14}**	**3×10^{14}**	
VUV Flux H2 or D2 UV	**1×10^{15}**	**1×10^{15}**	**Photons/sec./str.**
Full angle output cone	**45**	**45**	**Degrees**
Bulb window location	**-0.05**	**-0.05**	**CM**
Window CA	**0.8**	**0.8**	**CM**
Modulation or pulse	**Mod/option**	**Mod/option**	
Standard flanges	**2.75 " CF**	**2.75 " CF**	

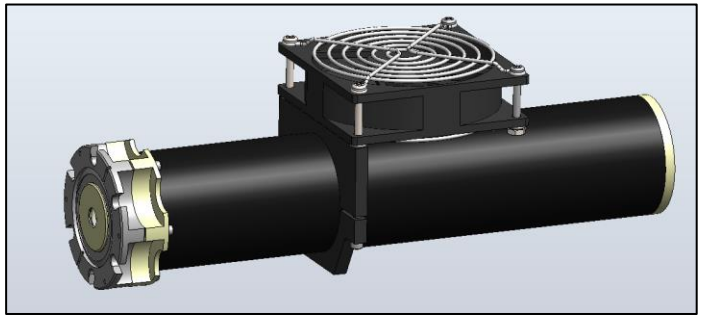
* - Subject to change without notice

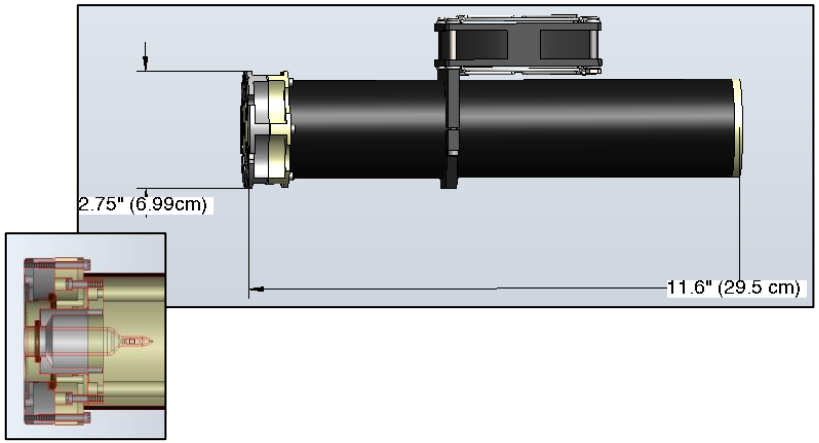
Model number	AaBC-DEF where Aa = gas e. g. Kr = Krypton, Xe = Xenon; B = Line or continuum e. g. L = line and C = mixed continuum and line or pure continuum, C=Window material e. g. M = Magnesium fluoride = standard lab model; -DEF is source configuration e. g. -L = standard lab model, QD = Quick Disconnect, LPu = pulsed, 12QD = 12 inch re-entrant lamp with Quick disconnect flange
Status	Production = in production, PreProd = pre production prototype tested, Developmental: Still in development
Spectrum type	Line: line at 121.6 NM (H) and 121.5NM (D), Molecular: lines from 113 to 165 NM for H2 and D2 Continuum: Broad D2 or H2 continuum from 165 to 400 NM to 170 nm peaking between 230 and 250 nm
Window location	Relative to the front the CF flange face. – x.y are away from flange and +x.y depth into vacuum chamber from flange face.
Modulation or pulse	Mod/optional: Option to modulate from 1 to 500 Hz.
System	Complete system includes power supply, EMI shielded enclosure, Vacuum flange and NIST traceable test on vacuum monochromator

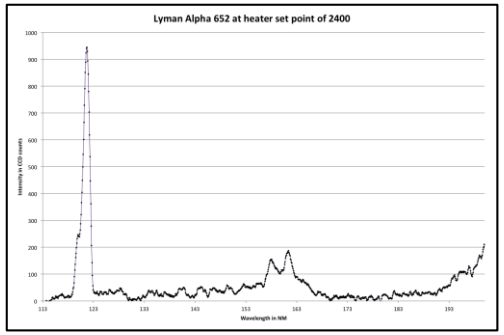
143 Ferndale Drive North, Barrie. Ontario, Canada, L4M-9V9. Phone(705) 733-3633-, FAX (705) 733-1388
Web site: http://www.resonance.on.ca Email: res@resonance.on.ca

Lyman Alpha Optically Thin Line source

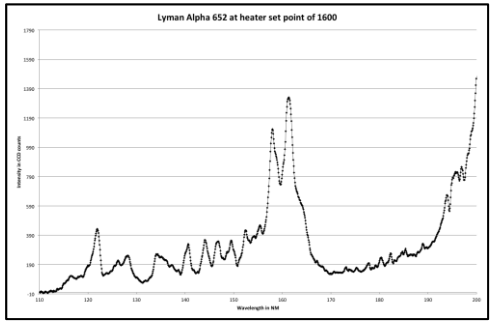
Model: HHeLM-LOT



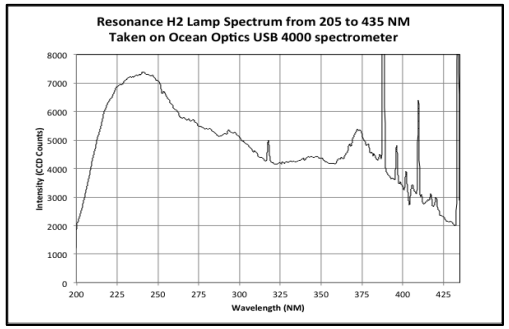




121.6 VUV Flux 3 x 10^{14} photons/sec/str



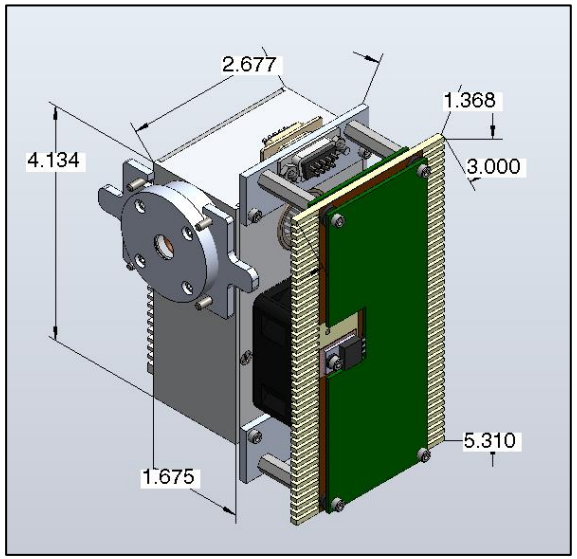
110 to 180 VUV Flux 2 x 10^{15} photons/sec/str

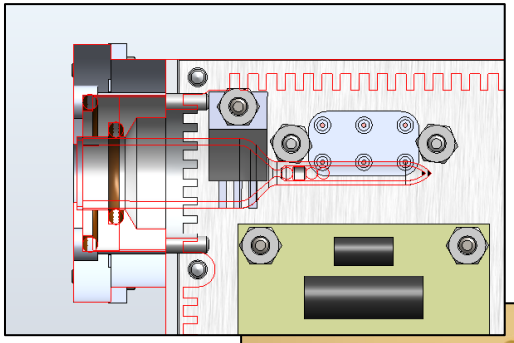


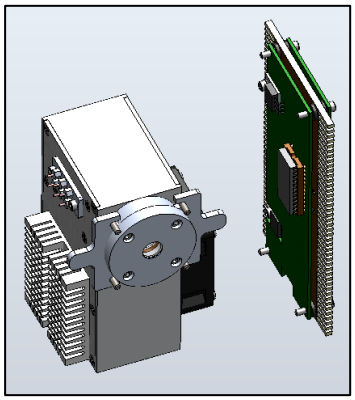
180 to 435 nm UV Flux 1 x 10^{15} photons/sec/str

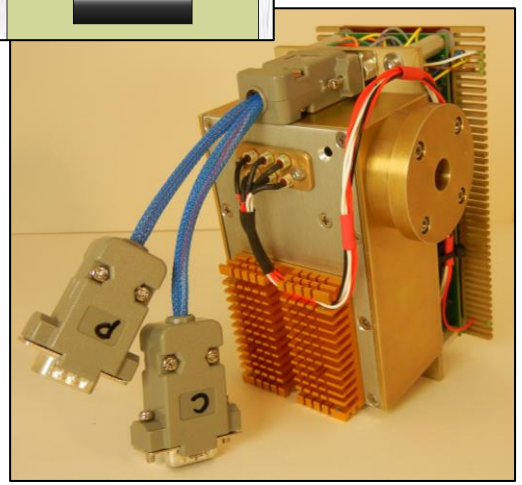
143 Ferndale Drive North, Barrie. Ontario, Canada, L4M-9V9. Phone(705) 733-3633-, FAX (705) 733-1388
Web site: http://www.resonance.on.ca Email: res@resonance.on.ca

OEM Lyman Alpha Lamp









Model: HHeLM-LOEM

143 Ferndale Drive North, Barrie. Ontario, Canada, L4M-9V9. Phone(705) 733-3633-, FAX (705) 733-1388
Web site: http://www.resonance.on.ca Email: res@resonance.on.ca