



RF Powered Continuum Light Sources



Resonance Ltd. RF Powered Continuum sources are designed to be reliable and maintenance free compact sources of emissions with an operating life in excess of 4000 hours.

The continuum sources are sealed RF excited sources with a window in an EMI shielded enclosure. The lamp mounts to a 2.75 inch or larger CF type flange. The lamp assembly has an integral RF exciter which is powered by a small wall plug power supply.

Why Resonance?

Resonance Ltd is the only supplier of high quality RF Powered VUV Sources.

Where are our lamps?

Our lamps can be found anywhere from your average laboratory to rocket payloads to performing in-flight calibrations on the Hubble Space Telescope.

Who has bought our lamps?

Our list of customers is proof of the quality of the lamps. NASA, Ball Aerospace, Stanford University, Canadian National Research Council, US Naval Research Laboratory, Penn State, and more.

Applications

- VUV Materials Studies
- PDP Phosphor Evaluation
- Photochemical Cleaning of Materias in Vacuum
- VUV Wavelength Calibration and Optical Alignment of Synchrotron Instrumentation
- Photo-Ionization for Gas and Particulate Detection
- Water Vapor detection in Vacuum System
- VUV Flat Fielding of CCD Cameras
- Orbital Solar Simulation

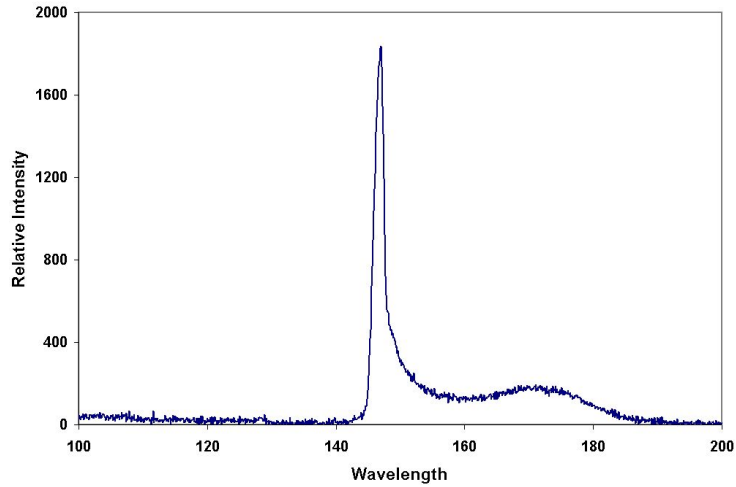


RF Powered Continuum Specifications				
	Minimum	Typical	Maximum	Units
Plasma Cavity	2.2	30 x 9		Mm ID
Window Material		MgF2		
Drift		0.2	1.0	% per hour
Calibration	Absolute intensity determined by traceable NBS Standard			
Testing	Test spectrum of entire VUV spectral region performed			
Running Life	1500	>4000		hours
Case Temperature	0		55	Degrees C
Input Voltage (50-60Hz)	100		250	AV Volts
Input Power		20		Watts
Optional Pulsed Operation	50		400	Hz

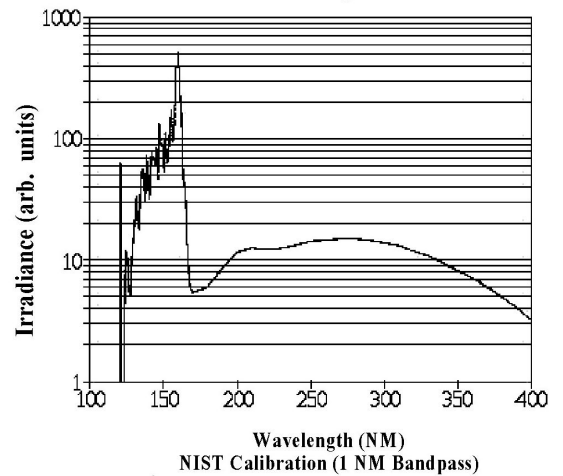
Gas Specifications				
Gas	Continuum Range	Flux	Peaks	Flux
Kr	125 - 160	3×10^{15}	116.5, 1236.6	5×10^{15}
Xe	147 - 190	8.5×10^{15}	147	5×10^{15}
Ar	110 - 140	4×10		
D2H2	165 - 400	1×10^{15}	110 - 165	2×10^{15}



Xe VUV Continuum Spectrum



Relative spectral irradiance of deuterium light source



Kr VUV Continuum Spectrum

