RESONANCE LTD
Optical Solutions & Technologies

RF Powered Molecular Light Sources

Resonance Ltd. UV Optically Thin Molecular sources are designed to be reliable and maintenance free compact sources of UV emissions with an operating life in excess of 500 hours. Suitable for molecular absorption and fluorescence measurements.
The 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.

RF Powered Auroral Specifications				
	Minimum	Typical	Maximum	Units
Plasma Cavity		30 x 9		Mm ID
Drift		0.2	1.0	% per hour
Calibration	Absolute intensity determined by traceable NBS Standard			
Testing	Test spectrum of entire UV spectral region performed			
Running Life	500			hours
Case Temperature	0		55	Degrees C
Input Voltage)	8		35	AV Volts
Input Power	0.3		20	Watts
Operational Pulsed Operation			10	kHz

Gas Specifications	
Gas	Description
OH	(0,0) band at 306.4nm with a typical flux of $1.5x10^{14}$ photons/sec/str
NO	NO gamma bands at 180-280nm with a typical flux of $4x10^{14}$ photons/sec/str
CO	CO 4th position bands at 113-140nm with a typical flux of $1x10^{14}$ photons/sec/str

Accessories	Options
Short adapter for wide angle output	Space Qualification
Lens Assembly	Miniature, low power configuration
Modular	High flux, high power conifiguration
UV Diodes	
PSD and Pulse counting	
Detector Assemblies	