Introducing the

SVGA–100 for streaming gases: Detection Perfection.

- No GC or separation required even for complex mixtures
- 100x improvement in detection limits with perpetual sampling
- Multi-port sample selection valve for online direct streaming of process gases
- Continuous monitoring and real-time analysis of gas purity and concentrations

vuvanalytics.com

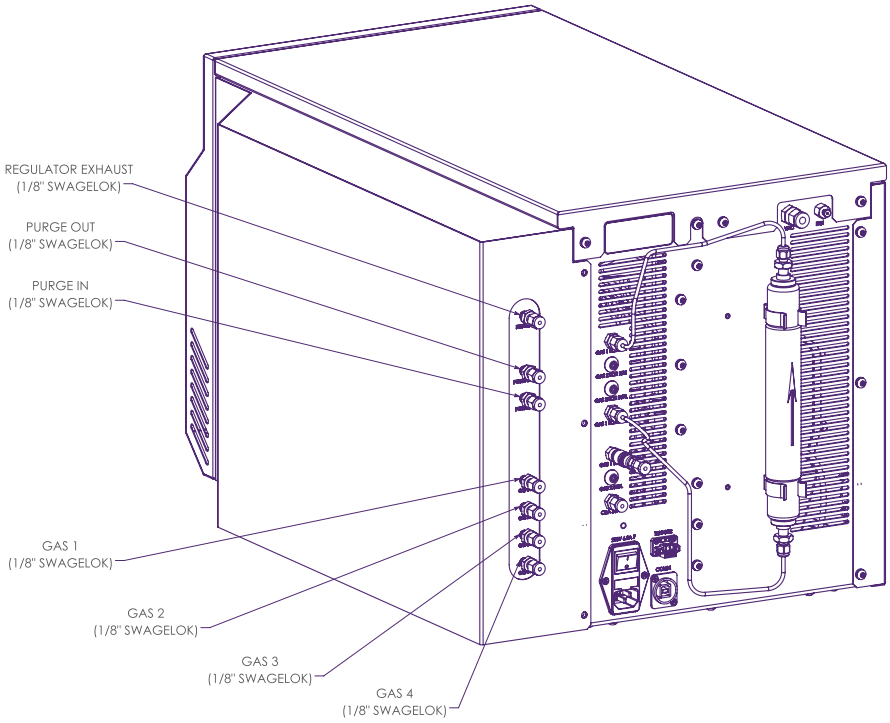
SVGA-100
Streaming VUV Gas Analyzer

SVGA–100

The SVGA-100 is the world's first streaming gas analyzer using vacuum ultraviolet (VUV) spectroscopy, simultaneously measuring absorption from 120nm to 240nm. The ability to continuously sample the gas stream enables both real-time control and improved statistical sensitivity.

The absorption cross-section of gas phase molecules in the VUV are hundreds of times stronger than in the infrared (IR), translating directly to sensitivity gains. These energies are strong enough to not be influenced by small temperature fluctuations, so routine calibrations become unnecessary.

In addition, the shapes of the absorption spectra in this wavelength region have just enough spectral richness to allow for an easy Beer-Lambert Law driven quantitative determination and easy deconvolution.



- **No Vacuum Pumps**
- **Universal AC input / full range**
  - **o 90-264V AC; 47-63Hz,**
  - **o <3amps @ 120V**
- **4 Port Gas Inlet Selection**
- **No Routine Calibrations**

~ Permanent Gas Blends
~ Specialty Gas Contamination
~ Feed Stream Process Monitoring
~ CO2 Capture and Conversion
~ Catalyst Reactions

VUV ANALYTICS

715 Discovery Blvd. Ste. 502 / Cedar Park, TX., 78613 / 512.333.0860 / vuvanalytics.com