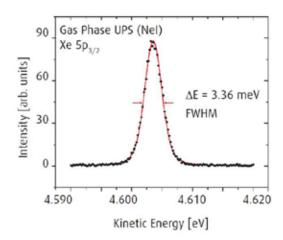
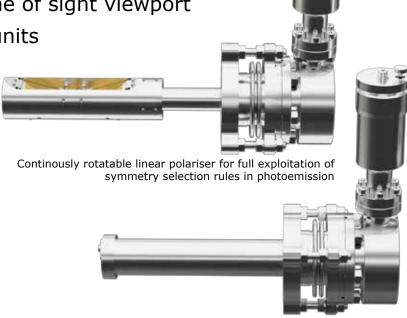


- Ease of operation
- Robust design
- Discharge regulation
- Precise alignment with line of sight viewport
- More than 300 installed units
- Large range of options



The line width of the gas phase spectrum is dominated by the Xe Doppler broadening and the analyser resolution. It proves a line width less than 2meV of the HIS 13 operated with Ne.

Measured with OMICRON EA 125



Attenuator for HIS 13/14 for VUV-sensitive samples. Variable reduction of photon flux by a factor 10 or 100.





Photo current	>80 nA (biased Al foil)
Useful gas discharge lines	HeI, HeII, NeI, NeII, ArI, ArII, KrI, KrII,
	XeI, XeII, H ( $Ly_{\alpha}$ , $Ly_{\beta}$ )
Capillary	Selectable length & diameter
Cooling	Water cooling
Discharge power	Up to 300 W
Operating pressure	Down to $10^{-10}$ mbar (HeI)
Differential pumping	Two or three (optional) stage
Mounting flange	DN 40 CF 2¾" OD
Alignment & discharge control	Via backside viewport
Adjustment	± 3° port aligner
Bake out temperature	Up to 250° C
Plasma Ignition	Automatic

## **VUV Source Power Supply**



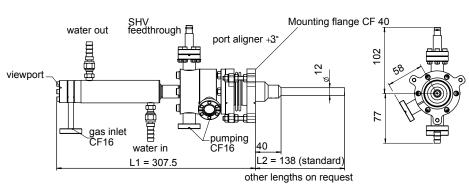
The VUV source power supply is a fully digital unit with integrated pressure measurement and automated plasma ignition. It delivers up to 1 kV anode voltage, up to 300 mA discharge current and a very stable discharge regulation.

## **Upgrade Options:**

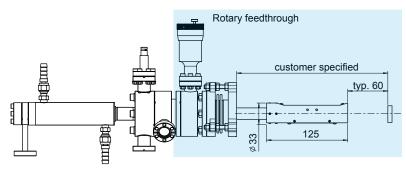
## linear polarizer VUV light attenuator

upgrade to HIS 14 HD for ultimate focussing and high photon density

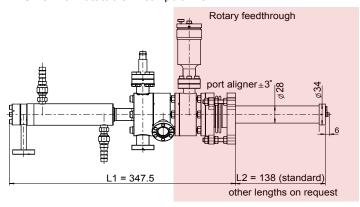
3<sup>rd</sup> differential pumping stage



HIS 13 standard VUV source

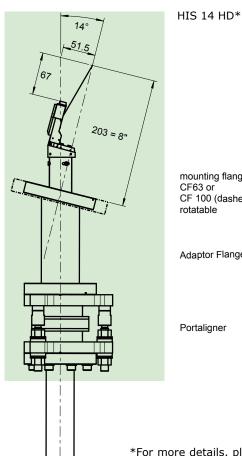


HIS 13 with rotatable linear polarizer



HIS 13 with in-situ VUV light attenuator

Note: All dimensions in [mm].



mounting flange CF63 or CF 100 (dashed line) rotatable

Adaptor Flange

Portaligner

\*For more details, please product separate see information for HIS 14 HD.



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