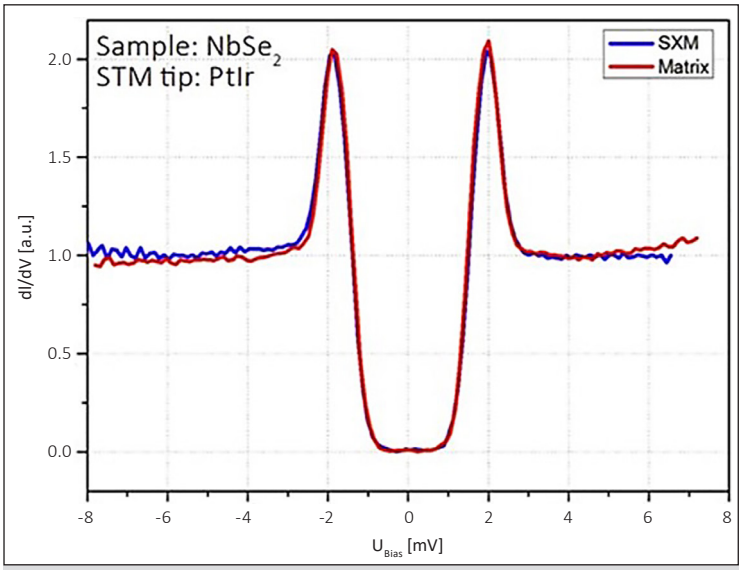
HF-FILTER SET for POLAR, INFINITY, and STREAM SPMs

Experience superior spectroscopy performance with improved signal-to-noise ratio

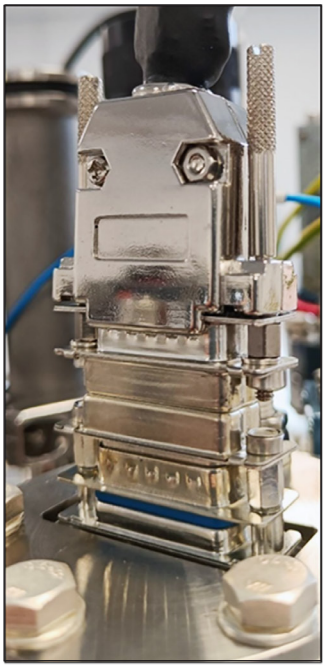
At the atomic scale, even the smallest amount of noise can significantly distort your data. High-frequency (HF) interference from room-temperature electronics and nearby external sources can disrupt delicate signals and compromise the clarity of spectroscopy measurements. Our advanced HF-filters effectively eliminate this noise, enabling your microscope to deliver the most accurate data.

Due to the HF electromagnetic fields from the environment and lab equipment the resolution of scanning tunneling spectroscopy can significantly deteriorate. By filtering out undesired signals, our low-pass filters effectively suppress HF noise and reduce spectroscopic broadening, enhancing spectral peak intensity and enabling the detection of even the smallest spectroscopic features with exceptional positional accuracy.

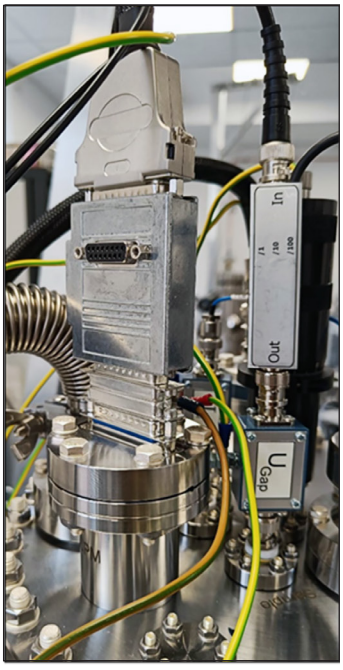


Superconducting energy gap acquired on NbSe2 with POLAR 1K fitted with **HF-Filter set** at T = 1.5 K.

Filter-box I_T



Pi-filter **D-Sub 15**



Pi-filter **D-sub 25** / F-box U_{GAP}

Whether you are exploring complex surface phenomena or conducting cutting-edge nanotechnology research, achieve the precision you need for groundbreaking discoveries with the clear, interference-free measurements.

Compatible with all TRIBUS head-based instruments.

Upgrade components:

- Filter-boxes U_{Gap} and I_T
- Pi-filters for SPM and Temp lines
- BNC Cable with snap ferrites
- Grounding plugs

Get in touch with us at **www.scientaomicron.com/contactus**

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