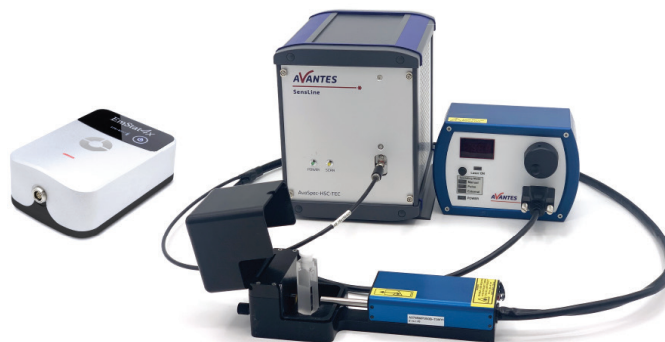


> MF-SPEC-ECKIT-4: SPECTRO-EC KIT FOR RAMAN ANALYSIS

The **MF-SPEC-ECKIT-4** is a Raman based Spectro-Electrochemistry Kit made for our PalmSens4, Multi-PalmSens4 or EmStat4X customers wanting to expand their electrochemical research with Raman spectroscopy. This kit will allow users to conduct fully synchronous in-situ analysis for electrochemistry hybridized with Raman Spectroscopy using our new AvaSpec HERO Spectrometer (788-1020 nm) for detection. Such a high end cooled back-thinned detector with low-noise electronics, and an optical bench with high numerical aperture will allow excellent signal to noise, dynamic range, and higher quantum efficiency in NIR region. Also included is our AvaLaser 785 (with 785 nm laser safety goggles) and a high-end "Panorama Light Software" for spectroscopic data evaluation featuring 2D/3D data visualization, searching in libraries, archiving in spectral libraries, and more. The kit is also equipped with tight cuvette holder for use with Raman probe of AvaLaser785 with an adjustable gold coated mirror for signal collection.



> Included with MF-SPEC-ECKIT-4 High End Kit:

- Range: 100 cm^{-1} – 3000 cm^{-1} ; Resolution: 10 cm^{-1}
- Spectrometer: AvaSpec-HSC1024x58TEC-EVO set for (788-1020 nm)
- Slit 25 (replaceable slit) & FC-PC connector
- AvaLaser785 (integrated in probe)
- Raman software: Panorama Light



> Customizations: Range: 150 cm^{-1} – 3600 cm^{-1} ; Resolution: 6 cm^{-1}

- MF-SPEC-ECKIT-4B – Cooled Spectro-EC Raman Kit for longer integration times and limited thermal noise
- MF-SPEC-ECKIT-4C – Uncooled Spectro-EC Raman Kit as an entry level solution for strong signals

> Available Spectro-EC Cell Kits and Accessories:

- Each Spectro-EC cell kit includes a Pt / gold mini-grid, a thin layer quartz glass cell, a teflon lid with holes, a purging tube, and platinum counter electrode
- Two optical path lengths are available in 0.5 mm (high electrolytic speed but difficult maintenance) and 1 mm (low speed but easy maintenance).

> Ordering Information:

- MF-SPEC-ECKIT-4: Spectro-EC cell kit for Raman Analysis
- PALM-SPECTROEC-EXT : Includes -
 - Spectro-EC Cell Kit: 8 mm x 6.5 mm x 1 mm with three electrodes and lid
 - Connector Cable to trigger Spectrometer with PalmSens instruments (PalmSens4, EmStat4X, Multi-PalmSens4)

