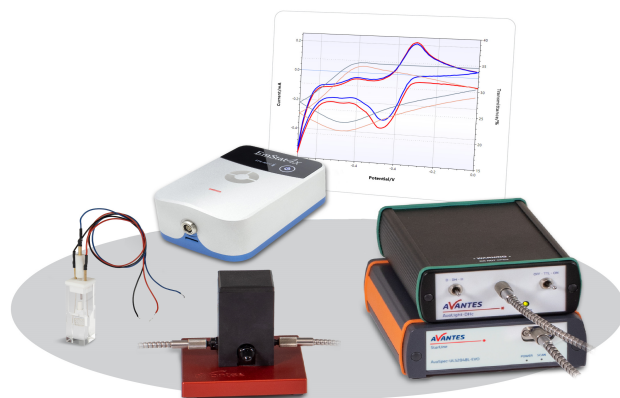


## > MF-SPEC-ECKIT: FULLY EQUIPPED AVANTES SPECTRO-EC KIT

The **MF-SPEC-ECKIT** is a customized kit made for our pre-existing or new PalmSens customers wanting to expand their electrochemical research with UV-Vis, IR, NIR or Raman spectroscopy. This kit will allow users to conduct fully synchronous and in-situ analysis for electrochemistry hybridized with UV-Vis Spectroscopy in the wavelength range of 200-1100 nm. The PStTrace software from PalmSens will show the hybridized curve for both measurements. The kit is fully equipped with deuterium-halogen light source, optical bench, set of fiber optics cables, a cuvette holder with lid for dark light subtraction, and more. Batch cell type analysis are possible using a platinum or gold mesh electrode as a working electrode. Customizations options are available for flow cell type application using a platinum, gold and carbon grid, and ITO electrodes as a working electrode. Advanced level fully equipped spectro-electrochemistry kits can be customized for users requiring NIR / Raman spectroscopy as well.



### > Available Spectro-EC Cell Kits and Accessories:

- The MF-SPEC-ECKIT can be customized with desired Spectro-EC cell kit.
- 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).
- Customized Spectro-EC cell kits available for Raman / NIR based EC cell, flowbased Spectro-EC applications



### > Related Applications:

- Photo-based organic dye evaluation for DSSC or similar cells
- Half-life kinetics studies of redox reactions in electrocatalysis
- Investigation of electrochromic materials for developing optical sensors
- Reaction intermediate kinetics evaluation at different concentrations

### > Ordering Information:

- MF-SPEC-ECKIT Fully Equipped Avantes Spectro-EC Kit
- CBL-AUX-AVAN: Connector Cable to connect a PalmSens Potentiostat to an Avantes spectrometer via the DSUB26 port.
- EF-1350: Spectro-EC cell kit with Pt mini-grid (1 mm path length)
- EF-1362: Spectro-EC cell kit with Pt mini-grid (0.5 mm path length)
- EF-1351: Spectro-EC cell kit with Au mini-grid (1 mm path length)
- EF-1363: Spectro-EC cell kit with Au mini-grid (0.5 mm path length)

