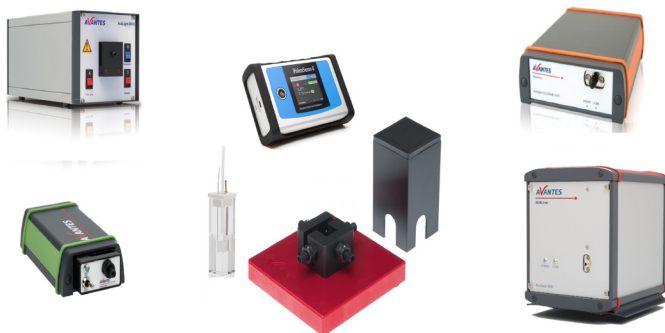


> MF-SPEC-ECKIT-2: SPECTRO-EC KIT FOR UV-VIS-NIR STUDIES

The **MF-SPEC-ECKIT-2** is a customized kit made for our pre-existing or new PalmSens customers wanting to expand their electrochemical research with Vis-NIR spectroscopy. This kit will allow users to conduct fully synchronous in-situ analysis for electrochemistry hybridized with UV-Vis+NIR Spectroscopy in the wavelength range of 200-2500 nm. The PStTrace software from PalmSens will show one complete Spectro-EC curve combined for both UV-Vis and NIR in full range. The kit is fully equipped with deuterium-halogen and tungsten halogen light sources, optical bench, a sync cable, set of fiber optics cables to synchronize the output from two spectrometers, a cuvette holder with lid for dark light subtraction, and more. Batch cell type analysis is 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 as working electrodes. Wide variety of gratings are also available for selectable ranges.



> Available Spectro-EC Cell Kits and Accessories:

- The MF-SPEC-ECKIT-2 can be customized with any of the desired Spectro-EC cell kit described in ordering information below.
- 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-2: Spectro-EC Kit for UV-Vis-NIR studies
- CBL-AUX-AVAN: Trigger Cable to connect a PalmSens Potentiostat to an Avantes spectrometer via the DSUB26 port.
- Any one of following kits can be purchased:
 - 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)

