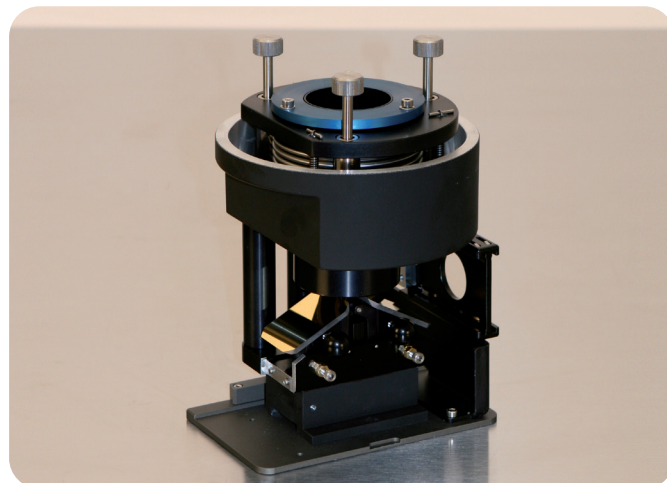


Product Note M140 - 09/20

A530/(I)P or A530/V Reflection Unit prepared for Electrochemical Cell



The reflection unit for INVENIO R/X and VERTEX series can be used to study chemical reactions in the presence of electric currents.

Features

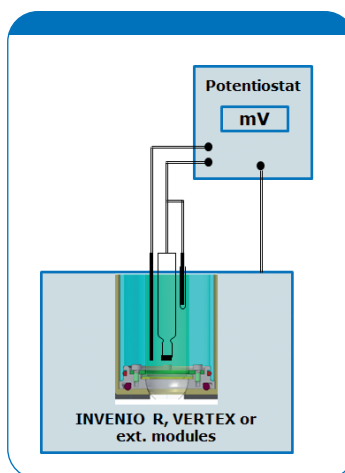
- For purged spectrometers INVENIO R and VERTEX 80 and purged modules (A530/(I)P)
- For VERTEX vacuum spectrometer series (A530/V)
- Reflection unit with exchangeable angle inserts
- Angles variable by +/- 5 deg, adjustable in the vented sample compartment
- Adaption including sample compartment cover
- Mount for polarizer
- Mount for customer provided electrochemical cell
- Sealing between window and cell

Required

- Customer provided electrochemical cell and electrodes. Glass body as cell available (part number 1025078)
- Windows mounted (F530-x); material CaF_2 (F530-3); Si (F530-8); Ge (F530-10); ZnSe (F530-11); BaF_2 (F530-17); shape hemispherical (1 Inch)

Recommended

- Polarizer F350 or F352 and A110 or A121
- Potentiostat
- Rapid Scan S129/x
- OPUS 3D software
- D31x/B MCT
- E525/Z trigger box for INVENIO R/X and VERTEX 80 series spectrometers
- E516/B or E517/Z + E525/Z for VERTEX 70v
- Suitable trigger cable on request



Applications

- Study of chemical processes at electrodes in electro-chemical set-ups as well as on their surfaces
- Depending on the electro-chemical setup for measurements in reflection or ATR mode

Figure 1:
Setup for measurement with reflection unit for electrochemical application.