DATASHEET

In-Situ Raman Spectroelectrochemistry Cell (Basic) — 37 mm Quartz Window, PEEK Body

PEEK spectroelectrochemistry cell with a 37 mm quartz window; working electrode sits directly under the window (<6 mm) for in-situ Raman and optical observation. Ag/AgCl reference and Pt counter electrode included.

APPLICATION

Mechanistic studies of electrocatalysis, including tracking of CO2RR, HER and OER intermediates; in-situ observation of electrode surface morphology and corrosion; teaching demonstrations of spectroelectrochemistry. Compatible with Raman and confocal Raman; works with both flowing and static electrolytes.

KEY SPECS

- Body Material: PEEK
- Optical Window: Quartz, Ø37 mm
- WE-to-Window Distance: < 6 mm
- Working Electrode Area: 1 cm², custom sizes available

1. Specifications

Body Material	PEEK
Optical Window	Quartz, Ø37 mm
WE-to-Window Distance	< 6 mm
Working Electrode Area	1 cm², custom sizes available
Working Electrode Types	Au / Pt / glassy carbon / ITO / FTO / carbon paper
Working Electrode	Plate electrodes — Au / Pt / glassy carbon / ITO / FTO / carbon paper; sold separately
Reference Electrode	AgCl or Ag+, included
Counter Electrode	Platinum wire, included
Assembly	Screw-fastened; quick assembly and disassembly for cleaning
Operation Modes	Flow operation, or static filling by syringe injection

2. Product Details

The LabCore In-Situ Raman Spectroelectrochemistry Cell (basic) is designed for studying electrode materials under potential control — spectra and morphology, live.

The working electrode sits right under the window. A Ø37 mm quartz window with the WE less than 6 mm away gives short Raman paths and a wide optical field of view.

Ready to run. AgCl (or Ag+) reference and platinum-wire counter electrodes are included — connect your potentiostat and go. WE plates (Au, Pt, glassy carbon, ITO, FTO, carbon paper) ordered separately for your experiment.

Quick-disassembly design for easy cleaning; supports flow operation or static injection filling.

3. Order / Quote

Model	Pack Size	Availability
LC-C0311-PEEK-QZ	1 set: PEEK cell body with 37 mm quartz window, AgCl (or Ag+) reference electrode, platinum wire counter electrode. Working electrode plates sold separately.	Made to order (quote)

Current pricing and ordering: labcorematerials.com/products/in-situ-raman-spectroelectrochemistry-cell/

4. Shipping & Compliance

- Contains glass components (quartz window, electrodes). Packed with shock-absorbing insert. Not dangerous goods. International express.

Contact

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www.labcorematerials.com/products/in-situ-raman-spectroelectrochemistry-cell/