

# VOLT IR

## TRANSMISSION SPECTROSCOPY ELECTROCHEMICAL CELL

The PhaseTech Transmission Volt IR is a compact sample cell for mid-infrared spectro-electrochemistry in the transmission geometry.

The cell utilizes specially designed, reusable IR-transparent Au plasmonic electrode windows for the application of voltage in a three-electrode electrochemical cell configuration.



### APPLICATIONS

- FT-IR spectroscopy
- IR microscopy
- Time-resolved IR spectroscopy
- 2D IR spectroscopy

### Monolayer surface-sensitivity!

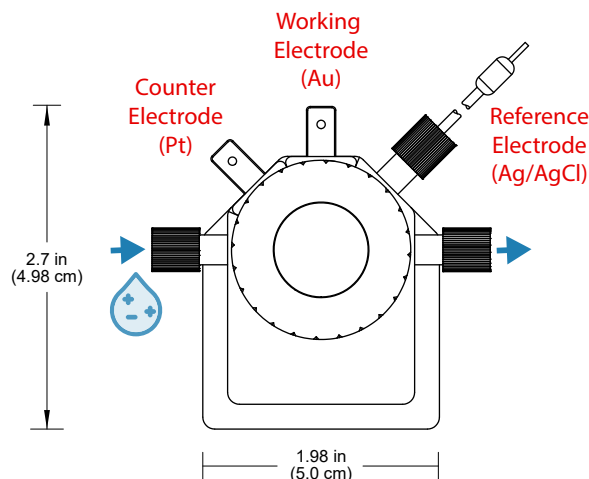


### DETAILS

Wavelength Range	1000 to > 4000 $\text{cm}^{-1}$
Plasmonic Enhancement	$\sim 1150$ to $3500 \text{ cm}^{-1}$
Plasmonic Window Reuse	estimated 10 samples
Clear Aperture	0.6 inches
Window Diameter	25 mm
Window thickness	2 mm
Path Length	>12 $\mu\text{m}$
Body Size	1.98 x 2.7 inches (5.0 x 4.98 cm)

### COMPLETE PACKAGE INCLUDES

- Transmission cell
- Five plasmonic working electrode windows
- Three platinum counter electrode windows
- Leakless Ag/AgCl reference electrode
- Peristaltic pump & tubing
- Solvent reservoir
- UV Ozinator
- Potentiostat



See more details in:

JPCB (2023) 127, 2083  
10.1021/acs.jpcc.2c08431

We follow a policy of continuous product development. Performance subject to change without notice.