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TECHNOLOGY GROUP

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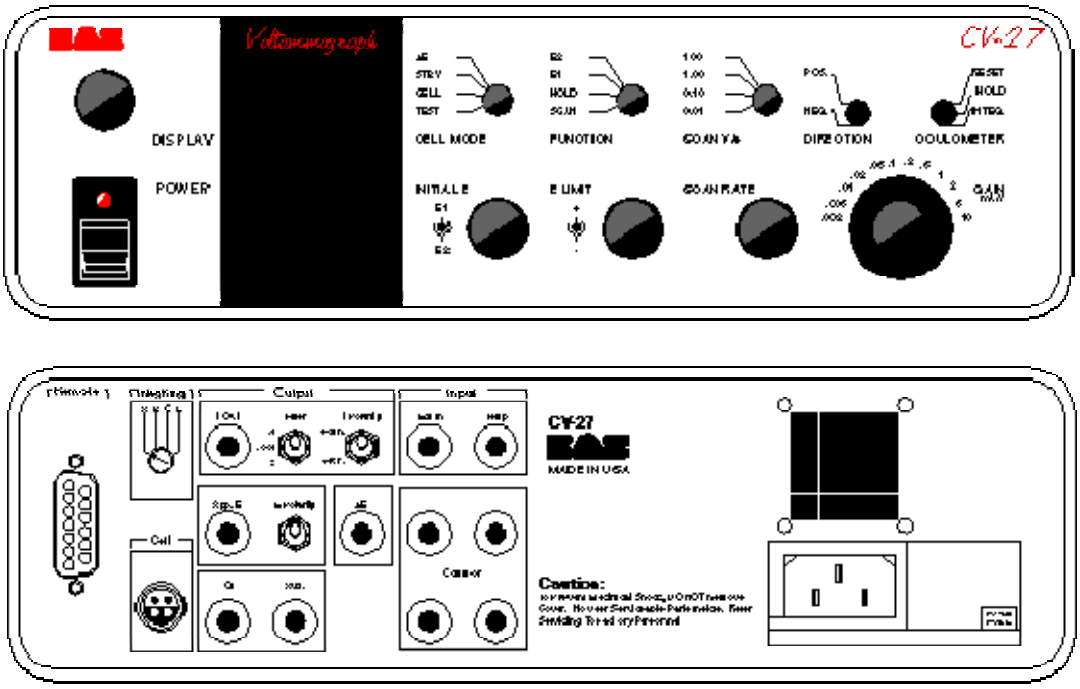
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Bioanalytical Systems CV-27* at our website: *Click HERE*

CV-27 Voltammograph



The CV-27 Voltammograph is our most popular analog instrument for characterization of chemical redox systems and electrode materials. It is used in research and teaching. The application areas are many and diverse:

- determine thermodynamic parameters; E, 0', n values, equilibrium constants
- teach and demonstrate electrochemical principles
- characterize organometallic compounds used as catalysts for synthesis or fuel cells
- examine properties of ionically conducting solids in battery research
- measure trace levels of heavy metals, pharmaceuticals, and inorganic compounds
- study chemical and electrochemical reaction kinetics that can yield mechanistic information
- study films and deposits on surfaces
- develop miniature sensors for process control and biosensors
- correlate electrochemical and biological redox mechanisms

Features

- Easy to use. All functions are controlled and monitored through a front panel display.

- Economical. High performance at a low cost.
- Built-in linear and step potential waveform generator.
- Built-in current integrator (coulometer)
- Temperature read-out when connected to BAS Temperature Controller.
- Remote control of some front panel functions.
- Logarithmic or semidifferential outputs available as options.
- Is part of a complete electrochemical system.

Techniques

- Cyclic Voltammetry
- Chronoamperometry
- Stripping Voltammetry
- Potentiometry including titrations and ion selective electrodes
- Amperometry including titrations and amperometric sensors (e.g., oxygen electrode)
- Controlled Potential Electrolysis (coulometry)
- D.C. Polarography
- Chronocoulometry (t > 100 ms)

Specifications

Potentiostat and Waveform Generator	Applied Potential: E1 (initial) and 2 (step), Range: ±5.00 V Compliance Voltage: ±12V Maximum Current Available: 120 mA nominal Linear Scan Rate: 0.1 mV/s to 4.0 V/s Scan Direction: manual selection Scan Limit: ±5.00V
Remote Control	Scan, Cell, E1, E2, +DIR, -DIR, INTG, and RESET
Current to Voltage Converter	Range: 2.0 mA/V to 10 mA/V, 1:2:5 sequence in 12 steps Maximum Measurable Current: 120 mA Time constants (RC): .001, 0.1, or 2.0 s

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Coulometer

Range: 2µC/V to 10 C/V, bipolar sum (100 C maximum)
Minimum Response Time: 100 ms

Displayable functions

E1 and E2
Error Limit indicator
Scan Rate and Direction
Temperature (0-99.9 °C w/Temperature Controller)
Equilibrium Potential (±1.99V)
Applied Potential
Charge
Output Current

Semi-Derivative Output (Option)

Range: ±Full scale current output d1/2i/dt1/2

Log Absolute Value Current (Option)

Range: 4 + decades

Linear Output (V)	Log Output (V)
10	0
1	-1
0.1	-2
0.01	-3
0.001	-4

Weight

7.80 lb. (3.54 kg)

Power

120/240V-50/60Hz

Ordering Information

EF-1065	CV-27 Voltammetry Controller

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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