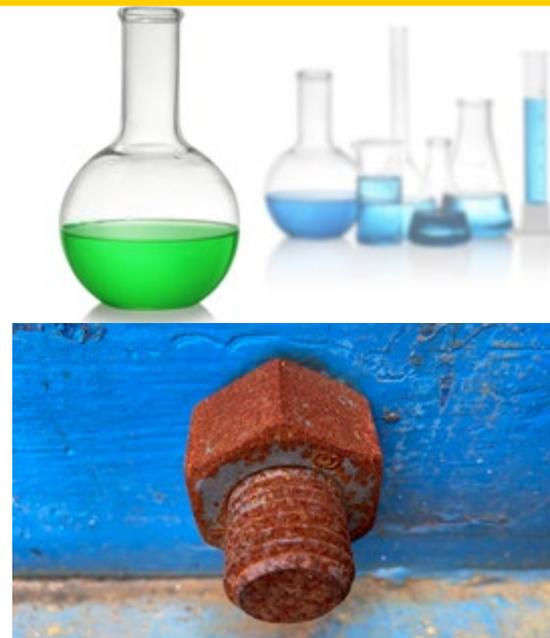




# Premium multichannel Potentiostats.

High-performance, high modularity, multi-channel instruments with 7 MHz capability and Quality Indicators for advanced EIS research.



# Premium measurement tools for electrochemists.

## VSP-300

Compact, six channel, research-grade potentiostat/galvanostat

**Voltage:** ±10 V, ±48 V with booster  
**Current:** ± 500 mA down to 100 pA  
**EIS:** Up to 7 MHz



**BioLogic's VSP-300 is a state-of-the-art research grade potentiostat/galvanostat/FRA boasting an impressive array of specifications.**

- Flexible, modular potentiostat/galvanostat incorporating the latest state-of-the-art technology
- Features 6 slots: choose from from 1 to 6 channels
- Each channel board can accommodate an ultra-low current cable and can connect to a high-current booster kit\*
- Connect up to 4 booster boards in parallel (up to 40 A)
- Each channel board can be equipped with an Analog Ramp Generator
- Multiple user system: connect to multiple computers via LAN

\*Four booster kits are available: ±10 A/ [-1;6] V, ±4 A/ [-3;14] V, ±2 A/±30 V and ±1 A/±48 V.

## Add-ons: Instruments that grow with your needs

Options	Specification	Application
ULC (ultra-low current)	LC option	Provide 100 fA accuracy for analytical electrochemistry and corrosion
Booster	1 A/48 V 2 A/30 V 4 A/14 V 10 A/6 V  HCV-3048* Connect up to 4 units	Battery, supercapacitor, fuel cell, electroplating & electrolysis Supercapacitor or fuel cell characterization Battery testing Battery pack characterization Large battery cells supercapacitors, or fuel cell characterization
EIS	EIS option	Validation of EIS measurements possible with VMP-3e/VSP-3e (Quality Indicators)
ARG	True linear (analog) voltage ramp	Allow fast scan rate up to 1 MV/s to detect/characterize short lifetime species. Ensures smooth voltage scan

## VMP-300: The ultimate multichannel potentiostat

**Voltage:** ±10 V, ±48 V with booster  
**Current:** ± 500 mA down to 100 pA  
**EIS:** Up to 7 MHz



**The VMP-300 is the most modular chassis in BioLogic's Premium range, with 16 slots for potentiostats/galvanostats/EIS boards and/or booster boards.**

- Combine channels to meet specific needs, reach high currents, or drive multiple measurements simultaneously across all channels
- 7 MHz EIS option and ultra-low current option available
- Multiple user system: connect to multiple computers via LAN
- Each channel board can be equipped with an Analog Ramp Generator

## BP-300: High-performance bipot, perfect for RRDEs & IDAs

**Voltage:** ±10 V, ±48 V with booster  
**Current:** ± 500 mA down to 100 pA  
**EIS:** Up to 7 MHz



**A versatile potentiostat capable of generating any bipot measurement, such as Rotating Ring Disk Electrode (RRDE) and InterDigitated Array (IDA) electrodes.**

- ARG provides an analog voltage scan of up to 1 MV/s with an acquisition time down to 1 μs
- Also includes one 2A/30V booster - perfect for electrolysis in the most resistive media
- CE to Ground mode: perfect for RRDEs & IDAs
- Option to use as a dual channel, multichannel potentiostat, controllable by one or more computers

## Powerful, proprietary functionality unique with EC-Lab®...

### Modify-on-the-fly

This unique functionality gives freedom and control; enabling users to build experiments without having to anticipate and plan experiments from scratch. This leads to:

- Easier management of long-term experiments
- Increased creativity
- Easier set-ups

### Display & Embedded Analysis

- Global view
- Multigraph
- Improved visibility of data for easier monitoring
- EIS data modeling (Z Fit)
- CV data modeling (CV Fit)
- Range of fitting tools
- Data export

## ...and the ability to get more out of your experiment

### Energy-specific features

- <2 μs switching time from Potentiostat to Galvanostat
- Manage 3 electrode cell/control between positive and negative
- C-rate calculation and use in next technique
- Safety limits
- High density of channel (upright design or 16 channel chassis)

### Advantages

- Higher-quality measurements
- Online processed data
- Easier management of long-term experiments
- Easier set-ups

### Ethernet capable/Buffer

- Facilitate group-working. Share instruments and experiments on your local area network (LAN)
- Built-in buffer protects precious experimental data against PC crashes or electrical blackouts
- Easier management of long-term experiments
- Safer/more reliable data transfer

# Overview.

## ENERGY STORAGE & CONVERSION

Batteries  
 Fuel cells & electrolyzers  
 Supercapacitors  
 Photovoltaics  
 Redox Flow Batteries

## RESEARCH ELECTROCHEMISTRY

Analytical Electrochemistry  
 Sensors

## CORROSION

## MATERIALS SCIENCE



Multi-channel **Premium** is a range of high-performance, high modularity instruments with 7 MHz capability and Quality Indicators for advanced EIS research. Ethernet-connectivity facilitates group working, and increased dynamic range enables high-precision scanning of current/voltage frequencies.

Multi-channel **Premium** instruments are designed for the most demanding needs of academia and industry. Built around a modular design the VSP-300, BP-300 and VMP-300 will grow with your research needs and help you expand new scientific frontiers.

	BP-300	VSP-300	VMP-300
Max channel	2	6	16
Max current	10A on channel 1 500 mA on channel 2 Each channel upgradeable up to 120 A with four HCV-3048.	±500 mA (standard) up to 120 A with four HCV-3048	±500 mA (standard); up to 120 A with four HCV-3048
Voltage	±10 V; ±48V with 1A/48 V booster	±10 V; ±48V with 1A/48 V booster	±10 V; ±48V with 1A/48 V booster
Impedance	7 MHz (3%, 3°) down to 10 µHz; 3 MHz (1%, 1°)	7 MHz (3%, 3°) down to 10 µHz; 3 MHz (1%, 1°)	7 MHz (3%, 3°) down to 10 µHz; 3 MHz (1%, 1°)
EIS QI	Yes	Yes	Yes

### Innovation is engrained in our commercial DNA.

The first multi-channel computer-controlled potentiostat (MacPile, 1991), Ethernet connectivity and Embedded EIS are just some of the Biologic innovations helping scientists around the globe. Our high-quality, high-performance instruments have been designed to withstand the rigors of time and the laboratory and give scientists increased freedom, flexibility and creativity. [www.biologic.net/about us](http://www.biologic.net/about-us)

[www.biologic.net](http://www.biologic.net)

Shaping the future.  
 Together.