



# VIONIC

One instrument,  
pure discovery for  
your electrochemical  
applications

# The Future of Electrochemistry is Pure

Discover the potential for your electrochemical applications: VIONIC powered by INTELLO. Maximum experimental possibilities, intelligent software, and the most complete data.



## Pure Efficiency

VIONIC and its INTELLO software are bursting with time-saving features that optimize any workflow.

## Pure Versatility

With unmatched standard specifications, VIONIC is the instrument of choice for your electrochemical applications.

## Pure Safety

Smart hardware and software safety features protect your cell, your lab, and your data.



# Pure Efficiency

Simply better procedures: INTELLO provides workflows for both exploratory and routine measurements.

## Main parameters

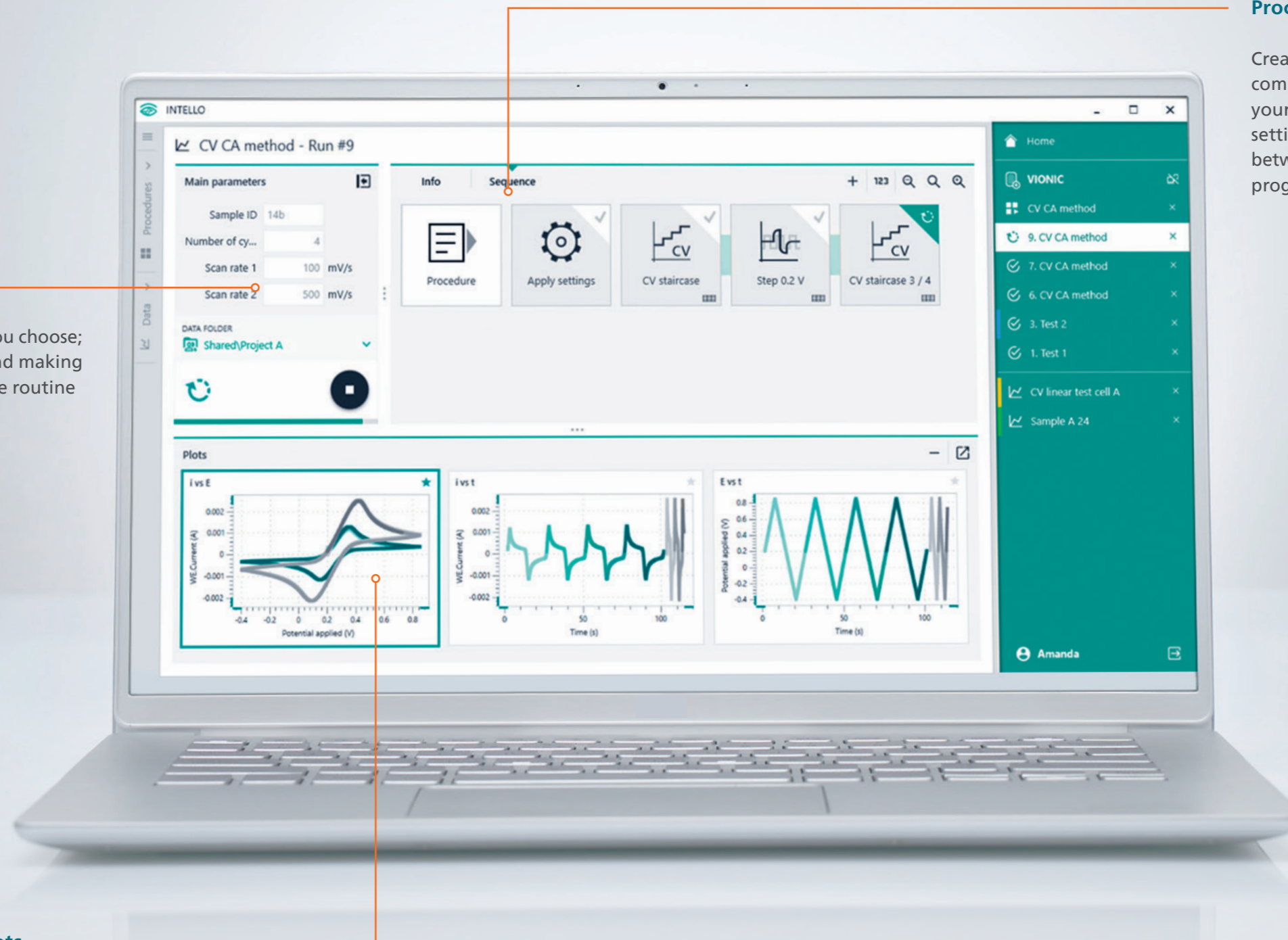
Displays only the parameters you choose; streamlining your workflow and making it easy to perform and delegate routine measurements.

## Procedure sequence editor

Create your unique procedure with easy-to-use command tiles and avoid errors by displaying your experiment sequence from the first settings to the end state, and every step in-between. INTELLO displays real-time command progress and state during your run.

## Insight plots

Customize the multi-plot overview by combining plots from different command tiles with a simple drag and drop. INTELLO provides automatic coloring of new series and iterative data.





# Pure Versatility

For now and what's next: VIONIC offers the most versatile combined specifications of any standard instrument.



## HIGHEST COMBINED SPECIFICATIONS IN ONE SINGLE INSTRUMENT

**Compliance voltage:  $\pm 50$  V**

VIONIC's dual mode compliance voltage puts you in control of your experiment. With VIONIC you can choose either the high compliance mode to overcome cell resistance, or high accuracy for the highest measurement accuracy.

**Standard current:  $\pm 6$  A**

The only single instrument with 1 nA–6 A current range (standard, measured/applied), VIONIC can adapt to all your experimental requirements. VIONIC's integrated power and modern electronics improve the signal-to-noise ratio: a smoother and more sensitive signal for greater insights.

**EIS frequency: up to 10 MHz**

Your research is never impeded with VIONIC's maximum 10 MHz frequency or AC amplitudes up to 10 V/6 A (top). Accurate EIS measurements on a variety of materials (high and low impedance, liquid and solid electrolytes) from one instrument, no add-on required.

**Sampling interval: down to 1  $\mu$ s**

VIONIC's fast sampling increases data collection for higher accuracy of information across all techniques.

## MOST COMPACT FOOTPRINT WITH SUPERIOR SPECIFICATIONS

W: 20 x H: 27 x D: 40 (measurements in cm)  
Weight: 13 kg



# Pure Versatility

VIONIC powered by INTELLO:  
One for all, and all in one instrument.



## Sensors

VIONIC's **Pure Signal Bridge with Adaptive Cables\*** ensures a stable signal and gives you the flexibility to choose from different connections: BNC, alligator clip, banana, or connector for screen printed electrodes (SPE).



## Energy

VIONIC's **Second Sense (S2)** gathers additional data about your experiment by providing a second potential measurement, giving you increased insight and advancing your discoveries.



## Electrocatalysis

An analog potential scan is the most accurate way to measure electrochemical processes at the interface. VIONIC is the only instrument that includes **Analog Scan** as standard.



## Corrosion

Use any cell you want, any way you want, with **Selectable Floating**. VIONIC can easily adapt to your setup: standard, grounded working electrodes, grounded counter electrodes, or grounded cells – the choice is yours.

Contact us now for a demonstration:  
[metrohm.com/demoVIONIC](https://metrohm.com/demoVIONIC)



→ [autolab@metrohm.com](mailto:autolab@metrohm.com)

\*Adaptive cables come with a set of 4 mm banana connectors. All features are included in VIONIC powered by INTELLO and are available for any application.



# Pure Safety

Smart safety features for samples, data, and the laboratory.



## Assurance at a glance

The **Dynamic Interface** displays real-time experimental values, overloads and error states, and you can use the **Cell** button to intervene immediately, if needed.

## Data protection

INTELLO protects your data by saving it automatically and continuously while your experiment is running.

VIONIC has substantial on-board memory to prevent experiment disruption and data loss in the case of unexpected disconnection between VIONIC and INTELLO.

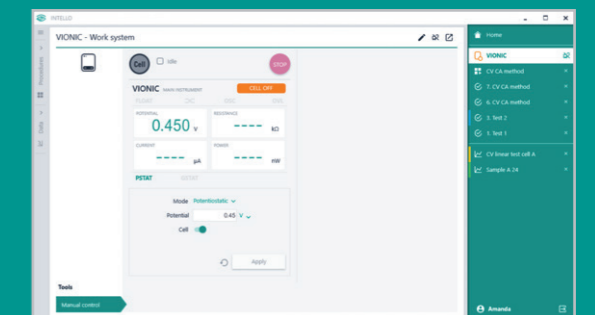
Up to **10 million data points** can be stored, more than enough for typical electrochemical measurements.

## Sample protection

Use VIONIC's accessible **Cell Button** to quickly make your cell safe for handling or if you need to troubleshoot after the start of a run.

The **Oscillation Protection** option turns the cell off if instrument oscillation occurs, ensuring that this unpredictable event does not damage your sample.

**Cell Isolate** automatically interrupts all signal paths between the instrument and the electrochemical cell if an error state is detected, protecting your sample and your instrument.



## Metrohm Autolab



The research and development of VIONIC powered by INTELLO was based upon over 30 years of customer insight. Each feature was created to meet the requirements of electrochemical research and improve your day-to-day discoveries.

Metrohm Autolab provides an industry-leading **3 year warranty** on all instruments and accessories.

Benefits	
Pure Efficiency	VIONIC and the INTELLO software are bursting with time-saving features that optimize any workflow.
Pure Versatility	With unmatched standard specifications, VIONIC is the instrument of choice for your electrochemical applications.
Pure Safety	Smart hardware and software safety features protect your cell, your lab, and your data.
Pure Discovery	VIONIC powered by INTELLO offers a unique combination of features that observes electrochemical processes, in real time with no gaps or missed information: complete data, pure discovery.

Metrohm Autolab is an ISO 9001 certified company.