



5A/10V → 4CA 150V

high power



discover:  
our complete range of instruments

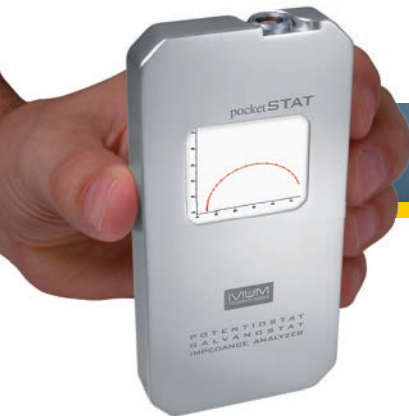


innovative solutions for electrochemical research



# Where high power meets high performance

For applications requiring a wide dynamic range



## pocketSTAT™

### Handheld potentiostat/galvanostat/ZRA with integrated impedance analyser

The pocketSTAT is a complete electrochemical measurement instrument with the size of a smart phone. It has been specifically designed for (field) measurements such as corrosion and analytical electrochemistry.

**HANDHELD** The pocketSTAT has the size and weight of a smart phone. It can be controlled via USB connection from any netbook, laptop or PC that is Windows operated.

#### KEY SPECIFICATIONS

- Size: 115.2x58.5x12.5mm
- Weight: 140 g
- Scan range:  $\pm 4V \pm 10mA$
- 3 electrode connection: RE/WE/CE and GND lead
- Max. acquisition rate: 5000 pnts/sec

**RUGGED DESIGN** The pocketSTAT has a housing made of strong, yet light weight, aluminium. The instrument enclosure is waterproof and complies with the ip44 rating. It is equipped with a full color display that shows the basic information, such as voltage, current and technique.

**ALL TECHNIQUES** All standard electrochemical techniques are available, including impedance analysis and corrosion techniques. The pocketSTAT includes a full suite of IviumSoft control and data analysis software.

#### System Performance:

Current compliance	$\pm 10$ mA
Maximum output Voltage	$\pm 8$ V
3 Electrodes	WE, CE, RE
Potentiostat Bandwidth	>1 MHz
Stability settings	High Speed, Standard, and High Stability
Programmable response filter	1 MHz, 100 kHz, 10 kHz, 1 kHz, 10 Hz
Signal acquisition	dual channel 16 bit ADC, 100.000 samples/sec
Electrode connection	RE/WE/CE and ground lead, 2mm banana plugs

#### Potentiostat:

Applied potential range	$\pm 4$ V, at 0.125 mV resolution
Applied potential accuracy	0.2%, or 2 mV
Current ranges	$\pm 1$ nA to $\pm 10$ mA in 8 steps
Measured current resolution	0.015% of current range, minimum 0.15pA
Measured current accuracy	0.2%

#### Galvanostat:

Applied current resolution	0.0125% of applied current range
Applied current accuracy	0.2%
Potential ranges	$\pm 0.4mV, \pm 4mV, \pm 40mV, \pm 0.4V, \pm 4V$
Measured potential resolution	0.003% of potential range, minimum 16nV
Measured potential accuracy	0.2%, or 2 mV

#### Impedance Analyser :

Frequency range	10 $\mu$ Hz to 100kHz
Amplitude	0.015mV to 1.0V, or 0.03% to 100% of current range
DC offset	16 bit dc offset subtraction, 2 dc-decoupling filters

#### Electrometer:

Input impedance	>1000 Gohm // <20pF
Input bias current	<10 pA
Bandwidth	>2 MHz

#### Environment:

Power requirements	via USB
Interfacing	USB 2.0 and 3.0 compliant
Size	w x d x h = 11.5 x 5.85 x 1.25 cm
Weight	140 gram
PC requirements	Windows XP/Vista/7/8 with free USB port

# CompactStat<sup>™</sup>



## Portable USB powered potentiostat/galvanostat/ZRA with integrated impedance analyser

The CompactStat can be operated via the USB port of a laptop or PC, without additional power supply. With its small footprint (<600 gram) and low power consumption, the CompactStat provides a truly mobile electrochemical measurement station. Among its many applications are corrosion, analytical, nano, bio, and battery/fuel cell testing

### THE COMPACTSTAT IS AVAILABLE IN 3 POWER CONFIGURATIONS:

- ± 30mA @ ±10V
- ± 800mA @ ±10V\*
- ± 250mA @ ±20V\*
- ± 30mA / ±100V\*

\*) With internal power booster.

**EXPANDABILITY** The CompactStat is fully compatible with all options and modules, including: integrated Bipotentiostat and True Linear Scan, the MultiWE32, ModuLight, Multiplexer, Fastscan, etc.

**LOW NOISE AND GALVANIC ISOLATION** The CompactStat is electrically isolated from power lines and PC. It has a superior noise immunity and is capable of determining very small signals, such as is required in nano-technology applications. Additionally, the instrument can be applied in situations where the sample must be disconnected from a common ground (floating).

**COMPLETE SOLUTION** The CompactStat offers a complete package. The hardware includes a build-in high-performance Frequency Response Analyser and all the standard Electrochemical techniques. Complete measurement and dataprocessing software is included.

**AUTOMATION** Multiple analog and digital input & output ports are available that can be used to monitor & control peripheral equipment. The software integrates this functionality.

<b>System Performance:</b>	<b>Standard (30 mA / 10 V)</b>	<b>Electrometer:</b>	
Current compliance	± 30 mA	Input impedance	>1000 Gohm // <8pF
Maximum output Voltage	± 10 V	Input bias current	<10 pA
4 Electrodes	WE, CE, RE, S	Bandwidth	>16 MHz
Potentiostat Bandwidth	>3 MHz	<b>Special functions:</b>	
Stability settings	High Speed, Standard, and High Stability	Ohmic drop compensation	2 V/current range, 16 bits resolution
Programmable response filter	1 MHz, 100 kHz, 10 kHz, 1 kHz, 10 Hz	<b>Peripheral connections:</b>	
Signal acquisition	dual channel 16 bit ADC, 100.000 samples/s	8 Analog in, and 2 analog out	0 to +4 V, 16 bits resolution
<b>Potentiostat:</b>		2 Digital inputs, 3 Digital outputs	0 to +5 V
Applied potential range	±4 V, 0.125 mV resolution/±10 V, 0.333mV resolution	I-out, and E-out	analog monitor for cell current and potential
Applied potential accuracy	0.2%, or 2 mV	AC-out	±0.5 V sinewave 10µHz-3MHz with variable attenuation
Current ranges	±10 nA to ±10 mA, (100 mA, 1A)	Channel-X, and Channel-Y inputs	±4 V: to record impedance from peripheral devices
High sensitivity current ranges	±1 pA, ±10 pA, ±100 pA, ±1 nA	<b>Environment:</b>	
Measured current resolution	0.015% of current range, minimum 0.15fA	Power requirements	in USB powered mode: standard 5 V, 500 mA
Measured current accuracy	0.2%	external adapter:	100-240 V, 50-60 Hz, 350 mA
<b>Galvanostat:</b>		Interfacing	USB 2.0 and 3.0 compliant
Applied current resolution	0.0125% of applied current range	Size	w x d x h = 12 x 26 x 2.5 cm
Applied current accuracy	0.2%	Weight	0.6 kg
Potential ranges	±0.4 mV, ±4 mV, ±40 mV, ±0.4 V, ±4 V, ±10 V	PC requirements	Windows XP/Vista/7/8 with free USB port
Measured potential resolution	0.003% of potential range, minimum 16nV		
Measured potential accuracy	0.2%, or 2 mV		
<b>Impedance Analyser:</b>			
Frequency range	10µHz to 3MHz		
Amplitude	0.015mV to 1.0V, or 0.03% to 100% of current range		
DC offset	16 bit dc offset subtraction, 2 dc-decoupling filters		
Dynamic range	4 nV to 10 V, and 0.05 fA to 30 mA		

CompactStat with booster*	e10800	e20250	e10030
<b>System performance:</b>	<b>800mA/10V</b>	<b>250mA/20V</b>	<b>30mA/100V</b>
Current compliance	±800mA	±250mA	±30mA
Maximum output voltage	±10V	±20V	±100V
Applied potential range	±10V, 0.333mV resolution	±20V, 0.667mV resolution	±100V, 3.33mV resolution
Additional potential range	—	±20V	±100V
Power requirements (Adapter powered only)	100-240V, 50-60Hz, 700mA	100-240V, 50-60Hz, 700mA	100-240V, 50-60Hz, 700mA
Weight	0.7kg	0.7kg	0.7kg

\*) All other specs same as standard model.



## Entry level potentiostat/galvanostat/ZRA

The Vertex is an entry level potentiostat/galvanostat/ZRA with optional FRA/EIS. Its price easily matches its application in educational and applied electrochemistry. The Vertex is capable of all standard electrochemical techniques and includes a complete suite of IviumSoft control and data processing software.

### THE VERTEX IS AVAILABLE IN 5 POWER CONFIGURATIONS:

- $\pm 100\text{mA} / \pm 10\text{V}$
- $\pm 1\text{A} / \pm 10\text{V}$
- $\pm 5\text{A} / \pm 10\text{V}$
- $\pm 10\text{A} / \pm 10\text{V}$
- $\pm 2\text{A} / \pm 20\text{V}$

### KEY SPECIFICATIONS

- current ranges: 10nA to 1A (10A)
- WE/RE/S/CE 4-electrode configuration
- Floating operation
- Data acquisition rate 100 kHz
- Optional: FRA/EIS: 10 $\mu$ Hz to 1MHz

**EXPANDABILITY** The Vertex can optionally be expanded with a True Linear Scan module and FRA/EIS. The Vertex is also compatible with other Ivium modules, such as the multiplexer and current interrupt module.

**WIDE APPLICATION RANGE:** The robust design, wide range of available models, floating operation and the availability of all standard electrochemical techniques makes the Vertex ideal for a variety of applications, including: educational, routine electrochemistry and analysis, batteries and fuel cells, corrosion, sensors, biotechnology.

<b>System Performance:</b>	<b>Standard (100mA / 10V)</b>	<b>Impedance Analyser (optional):</b>	
Current compliance	$\pm 100\text{mA}$	Frequency range	10 $\mu$ Hz to 1MHz
Maximum output Voltage	$\pm 10\text{V}$	Amplitude	0.015mV to 1.0V, or 0.03% to 100% of current range
4 Electrodes	WE, CE, RE, S	DC offset	16 bit dc offset subtraction, 2 dc-decoupling filters
Potentiostat Bandwidth	>500 kHz	<b>Special functions:</b>	
Stability settings	High Speed, Standard, and High Stability	Ohmic drop compensation	2 V/current range, 16 bits resolution
Programmable response filter	1 MHz, 100 kHz, 10 kHz, 1 kHz, 10 Hz	<b>Peripheral connections:</b>	
Signal acquisition	dual channel 16 bit ADC, 100.000 samples/sec	Shared input/output	user selectable - analog input: $\pm 10\text{V}$ , 16 bits res.; or - analog output: $\pm 10\text{V}$ , 16 bits res.; bandwidth 40kHz
<b>Potentiostat:</b>		<b>Environment:</b>	
Applied potential range	$\pm 10\text{V}$ , with 0.333mV resolution	Power requirements	100-240 V, 50-60 Hz, 700 mA (supply included)
Applied potential accuracy	0.2%, or 2 mV	Interfacing	USB 2.0 and 3.0 compliant
Current ranges	$\pm 10\text{ nA}$ to $\pm 1\text{ A}$ in 9 steps	Size	w x d x h = 13 x 27 x 4 cm
Measured current resolution	0.015% of current range, minimum 15pA	Weight	1.5 kg
Measured current accuracy	0.2%	PC requirements	Windows XP/Vista/7/8 with free USB port
<b>Galvanostat:</b>			
Applied current resolution	0.033% of applied current range		
Applied current accuracy	0.2%		
Potential ranges	$\pm 10\text{ mV}$ , $\pm 100\text{ mV}$ , $\pm 1\text{ V}$ , $\pm 10\text{ V}$		
Measured potential resolution	0.003% of potential range, minimum 0.4 $\mu$ V		
Measured potential accuracy	0.2%, or 2 mV		
<b>Electrometer:</b>			
Input impedance	>100 Gohm // <20pF		
Input bias current	<20 pA		
Bandwidth	>5 MHz		

Vertex*	1A 1A / 10V	5A 5A / 10V	10A 10A / 10V	2A 2A / 20V
<b>System performance:</b>	<b>1A / 10V</b>	<b>5A / 10V</b>	<b>10A / 10V</b>	<b>2A / 20V</b>
Current compliance	$\pm 1\text{A}$	$\pm 5\text{A}$	$\pm 10\text{A}$	$\pm 2\text{A}$
Additional current ranges	–	$\pm 10\text{A}$	$\pm 10\text{A}$	–
Maximum output voltage	$\pm 10\text{V}$	$\pm 10\text{V}$	$\pm 10\text{V}$	$\pm 20\text{V}$
Additional (applied) potential range	–	–	–	$\pm 20\text{V}$ , 0,667mV resolution
Peripheral port	as standard	see below**	see below**	see below**
Power requirements	as standard	100-240V, 50-60Hz, 2A	100-240V, 50-60Hz, 4A	100-240V, 50-60Hz, 2A
Weight	1.5kg	2kg	3kg	2kg

\*) All other specs same as standard model.

### \*\*) Peripheral connections:

2 Analog in	$\pm 10\text{V}$ , 16 bits resolution, bandwidth 40 kHz	I-out, and E-out	analog monitor for cell current and potential
1 Analog out	$\pm 10\text{V}$ , 16 bits resolution	AC-out	$\pm 0.5\text{V}$ sinewave 10 $\mu$ Hz-1MHz with variable attenuation
1 Digital input, 3 Digital outputs	0 to +5 V	Channel-X, and Channel-Y inputs	$\pm 4\text{V}$ : to record impedance from peripheral devices



## High power general purpose potentiostat/galvanostat/ZRA with integrated impedance analyser

The IviumStat is well-suited for applications requiring a wide dynamic range.

The high current capability combined with its complete range of options enables application in research, corrosion, battery/fuel cell testing, analysis and bio- and nano-electrochemistry.

### THE IVIUMSTAT IS AVAILABLE IN 3 POWER CONFIGURATIONS

- $\pm 5A / \pm 10V$
- $\pm 10A / \pm 10V$
- $\pm 2A / \pm 50V$
- Current- and voltage boosters available

**EXPANDABILITY** The IviumStat is fully compatible with all options and modules, including: integrated Bipotentiostat and True Linear Scan, the MultiWE32, ModuLight, multiplexer, FastScan and all current- and voltage boosters.

**AUTOMATION** Multiple analog and digital input & output ports are available that can be used to monitor & control peripheral equipment. The software integrates this functionality.

**SAFETY** The compliance (maximum current or potential) of the instrument can be defined by the operator. In this way valuable samples may be protected and unsafe situations prevented.

**COMPLETE SOLUTION** The IviumStat offers a complete package. The hardware includes a built-in high-performance Frequency Response Analyser and all the standard electrochemical techniques. Complete measurement and data processing software is included.

<b>System Performance:</b>	<b>Standard (5A / 10V)</b>	<b>Electrometer:</b>	
Current compliance	$\pm 5A$	Input impedance	$>1000 \text{ Gohm} // <8\text{pF}$
Maximum output Voltage	$\pm 10V$	Input bias current	$<10 \text{ pA}$
4 Electrodes	WE, CE, RE, S	Bandwidth	$>16 \text{ MHz}$
Potentiostat Bandwidth	8 MHz for small signals, 300kHz for large signals	<b>Special functions:</b>	
Stability settings	High Speed, Standard, and High Stability	Ohmic drop compensation	2 V/current range, 16 bits resolution
Programmable response filter	1MHz, 100kHz, 10kHz, 1kHz, 10Hz	<b>Peripheral connections:</b>	
Signal acquisition	dual channel 16 bit ADC, 100.000 samples/sec	8 Analog in, and 2 analog out	0 to +4V, 16 bits resolution
<b>Potentiostat:</b>		2 Digital inputs, 3 Digital outputs	0 to +5V
Applied potential range	$\pm 10V$ , with 0.33mV resolution	I-out, and E-out	analog monitor for cell current and potential
Applied potential accuracy	0.2%, or 2mV	AC-out	$\pm 0.5V$ sinewave 10 $\mu\text{Hz}$ -8MHz with variable attenuation
Current ranges	$\pm 10\text{nA}$ to $\pm 10A$ in 10 steps	Channel-X, and Channel-Y inputs	$\pm 4V$ : to record impedance from peripheral devices
High sensitivity current ranges	$\pm 1\text{pA}$ , $\pm 10\text{pA}$ , $\pm 100\text{pA}$ , $\pm 1\text{nA}$	<b>Environment:</b>	
Measured current resolution	0.015% of current range, minimum 0.15fA	Power requirements	100-240V, 47-63Hz, 150VA
Measured current accuracy	0.2%	Interfacing	USB 2.0 and 3.0 compliant
<b>Galvanostat:</b>		Size	w x d x h = 26 x 33 x 12 cm
Applied current resolution	0.033% of applied current range	Weight	4.2 kg
Applied current accuracy	0.2%	PC requirements	Windows XP/Vista/7/8 with free USB port
Potential ranges	$\pm 1\text{mV}$ , $\pm 10\text{mV}$ , $\pm 100\text{mV}$ , $\pm 1V$ , $\pm 10V$ ,		
Measured potential resolution	0.003% of potential range, minimum 40nV		
Measured potential accuracy	0.2%, or 2mV		
<b>Impedance Analyser:</b>			
Frequency range	10 $\mu\text{Hz}$ to 8MHz		
Amplitude	0.015mV to 1.0V, or 0.03% to 100% of current range		
DC offset	16 bit dc offset subtraction, 2 dc-decoupling filters		
Dynamic range	12nV to 10V, and 0.05fA to 5A		

IviumStat*	XRi 10A / 10V	XRe 2A / 50V
<b>System performance:</b>		
Current compliance	$\pm 10A$	$\pm 2A$
Additional current ranges	$\pm 10A$	$\pm 10A$
Maximum output voltage	$\pm 10V$	$\pm 50V$
Additional (applied) potential range	–	$\pm 50V$ , 1.667mV resolution
Power requirements	100-240V, 45-63Hz, 300VA	100-240V, 45-63Hz, 300VA
Weight	5.3kg	5.3kg

\*) All other specs same as standard model.

# Ivium-n-Stat<sup>™</sup>



## High power multi-channel potentiostat/galvanostat/ZRA with integrated impedance analyser

The Ivium-n-Stat is a state-of-the-art multi-channel potentiostat-galvanostat with integrated impedance analyser in each channel. It can be operated in grounded or in floating mode. The variety of different channels, the high sensitivity, and the separate or synchronous control of channels allow the Ivium-n-Stat to be used in a wide range of applications from research to production testing.

### VARIOUS CHANNELS AND FRAMES AVAILABLE

Single channel sModule:      Dual channel dModule:

- $\pm 2.5A / \pm 10V$
- $\pm 5A / \pm 10V$
- $\pm 2A / \pm 20V$
- $2 \times \pm 500mA / \pm 10V$
- $2 \times \pm 2.5A / \pm 10V$

Integrated EIS:

- All channels standard include intergrated FRA/EIS: 10 $\mu$ Hz - 250kHz (Optional High Frequency upgrade to 1MHz)

Main frame:

- 20A or 40A
- max. 8 modules / 16 channels per frame
- Stackable up to 64 channels

**EXPANDABILITY** The Ivium-n-Stat main frame contains 8 slots for a maximum of 16 channels and can be stacked up to 8 frames and a maximum of 64 channels. Modules are encased for easy handling so that users can upgrade the number of channels in a simple plug-and-play manner. With the exception of the dual channel module, an integrated peripheral port with multiple analog and digital input & output ports is available that can be used to monitor & control peripheral equipment. The software integrates this functionality.

**SIMULTANEOUS CONTROL** The IviumSoft control software allows control of separate channels or all channels simultaneously with synchronized start. Data can be plotted per channel or simultaneously for all channels on a single screen.

<b>Channel Performance:</b>	<b>Standard sModule (2.5A / 10V)</b>	<b>Electrometer</b>	
Current compliance	$\pm 2.5 A$	Input impedance	$>1000 \text{ Gohm} // <8\text{pF}$
Maximum output Voltage	$\pm 10 V$	Input bias current	$<10 \text{ pA}$
4 Electrodes	WE, CE, RE, S	Bandwidth	$>5 \text{ MHz}$
Potentiostat Bandwidth	$>500 \text{ kHz}$	<b>Special functions:</b>	
Stability settings	High Speed, Standard, and High Stability	Ohmic drop compensation	2 V/current range, 16 bits resolution
Programmable response filter	1 MHz, 100 kHz, 10 kHz, 1 kHz, 10 Hz	<b>Peripheral connections:</b> (not for dual channel module)	
Signal acquisition	dual channel 16 bit ADC, 100.000 samples/sec	2 Analog in	$\pm 10 V$ , 16 bits resolution, bandwidth 40 kHz
<b>Potentiostat:</b>		1 Analog out	$\pm 10 V$ , 16 bits resolution
Applied potential range	$\pm 10 V$ , with 0.33 mV resolution	1 Digital input, 3 Digital outputs	0 to +5 V
Applied potential accuracy	0.2%, or 2 mV	I-out, and E-out	analog monitor for cell current and potential
Current ranges	$\pm 10 \text{ nA}$ to $\pm 10 \text{ A}$ in 10 steps	AC-out	$\pm 0.5 V$ sinewave 10 $\mu$ Hz to max. 1MHz with variable attenuation
Measured current resolution	0.015% of current range, minimum 1.5pA	Channel-X, and Channel-Y inputs	$\pm 4 V$ : to record impedance from peripheral devices
Measured current accuracy	0.2%	<b>Environment</b>	
<b>Galvanostat:</b>		Size	w x d x h = 3 x 35 x 13 cm
Applied current resolution	0.033% of applied current range	Weight	0.7 kg
Applied current accuracy	0.2%	PC requirements	Windows XP/Vista/7/8 with free USB port
Potential ranges	$\pm 10\text{mV}$ , $\pm 100\text{mV}$ , $\pm 1V$ , $\pm 10V$	<b>Specifications: Ivium-n-Stat main frame</b>	
Measured potential resolution	0.003% of potential range, minimum 400nV	Slot positions	Can mount up to 8 Modules
Measured potential accuracy	0.2%, or 2 mV	Common connectors	GND and combined emergency off control monitor
<b>Impedance Analyser:</b>		Power requirements	20A-frame: 100-240 V, 47-63 Hz, 300 W 40A-frame: 100-240V, 47-63Hz, 600W
Frequency range	10 $\mu$ Hz to 250kHz (optional: 10 $\mu$ Hz to 1MHz)	Interfacing	USB 2.0 and 3.0 compliant
Amplitude	0.015mV to 1.0V, or 0.03% to 100% of current range	Size	w x d x h = 47 x 36 x 14 cm
DC offset	16 bit dc offset subtraction, 2 dc-decoupling filters	Weight	6.2 kg (no modules) 11.8 kg (with 8 modules)

Module*	sModule	sModule	dModule	dModule
System performance:	5A / 10V	2A / 20V	500mA / 10V	2.5A / 10V
Number of channels in module	1	1	2	2
Current compliance	$\pm 5A$	$\pm 2A$	$\pm 500mA$	$\pm 2.5A$
Maximum output voltage	$\pm 10V$	$\pm 20V$	$\pm 10V$	$\pm 10V$
Additional (applied) potential range	–	$\pm 20V$ , 0.667mV resolution	–	–
Peripheral port	yes	yes	not available	not available

\*) All other specs same as standard model.

# Software to match every research application

One software to control all Ivium instruments: IviumSoft includes all standard electrochemical techniques and allows integrated data processing and analysis. The software is feature rich, yet intuitive to use. All functions are directly available from the principle user interface. The full software is shipped with all Ivium instruments and is standard included in the price. Installation is not limited to a maximum number of Windows operated PCs.

## IviumSoft User Interface

Menu bar: device, software & file control  
 Method tree: select your method  
 Analysis menu: select your data analysis method  
 Project: Store data files in a project folder of your choice

Method parameters: construct your method

Results: graphic or numeric data representation

History list: quick access to recently stored or opened data files

Method parameters table:

Parameter	Value	Unit
Mode	Standard	
Title	Fe in KNO3	
E start	0.0000	V
Vertex 1	0.3000	V
Vertex 2	-0.6000	V
E step	5	mV
N scans	4	cls
Scanrate	500	mV/s
Current Range	10	μA
+AutoCR	Off	

History list table:

Files	Scan id	Nscans	Date	Description	Technique	SN	Chan	Cycle	Status	File
	0000	1	2005/04/28 12:43:55	Fe in KNO3	CV Std		0	0	100%	C:\IviumSoft\data\files\cv500mV.idf
	0000	1	2005/04/28 12:43:01	Fe in KNO3	CV Std		0	0	100%	C:\IviumSoft\data\files\cv500mV.idf
	0173	1	2014/05/07 12:39:56	scan 1	CV Galv	V21502	1	1	100%	C:\IviumSoft\data\tempfiles\01731405CV\scan1V21502.idf
	0172	1	2014/05/07 12:32:59	scan 1	CV Galv	V63100	1	1	100%	C:\IviumSoft\data\tempfiles\01721405CV\scan1V63100.idf
	0171	1	2014/05/07 12:16:12	scan 1	CV Galv	V72210	1	1	100%	C:\IviumSoft\data\tempfiles\01711405CV\scan1V72210.idf
	0170	1	2014/05/07 11:47:27	scan 1	CV Galv	S55640	1	1	100%	C:\IviumSoft\data\tempfiles\01701405CV\scan1S55640.idf

- Scan rate 1 μV/s to 10,000V/s
- Minimum time interval 10 μs
- Continuous scan at 500 points/s
- Transients up to 255 levels
- Transients with user selectable dynamic cut-off
- Single sine/multi sine impedance 10 μHz to 8 MHz
- Simultaneous peripheral I/O control and data acquisition
- Open Cell Potential measurement
- Ohmic drop compensation
- Batch processing for automation and sequencing
- Signal view monitoring
- Pulse generator
- Instrument diagnostics
- Software development driver for LabView™, delphi, C, etc

# Why Electrochemists prefer Ivium instruments

- FREE SOFTWARE
- INTEGRATED DESIGN IS BETTER THAN MODULAR
- VERSATILE HARDWARE AND SOFTWARE

## Compatibility table of Ivium instruments

Current: Voltage: FRA/EIS:	VERTEX					COMPACTSTAT			IVIUMSTAT			IVIUM-N-STAT				
	0.1A   1A   2A   5A   10A 10A   10A   20A   10A   10A 1 MHz*	Standard 30mA 10V	e20250 250mA 20V	e10800 800mA 10V	e10030 30mA 100V	Standard 5A 10V	XRi 10A 10V	XRe 2A 50V	8 MHz	sModule 2.5A 10V	5A 10V	2A 20V	500mA 10V	2.5A 10V		
OPTIONS:																
Plus-module (20V/250mA)																
Plus2-module (10V/800mA)																
IviumBoost1040 (10V/40A)																
IviumBoost1001 (100V/0.6A)																
IviumBoost205 (20V/5A)																
IviumBoost1010 (10V/10A)																
PPE: Pheripheral Port Expander																
PDA: Pheripheral Differential Amplifier																
mPDAsv																
mPDA																
Bipotentiostat																
True Linear Scan																
HiMUX.XR																
uMUX																
MultWE32																
FastScan																
Current Interrupt Module																
Peripheral Level Transformer																
ModuLight program. light source																
IvISUN solar simulator																

\*) Optional

**IviumBoost:**  
power booster  
±40A max.  
±100V max.



**Multiplexer:**  
8 channels consecutive  
stackable up to 64 channels



**FastScan:**  
20 Msamples/s  
Scan rate 10 MV/s  
Memory: 10,000,000 pts



**MultWE32:**  
synchronous 32 channels  
potentiostat module  
1RE, 1CE, 32WEs  
1mA/channel



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innovative solutions for electrochemical research