



Ivium Technologies keeps innovating: **Latest news for 2010!**

New and Improved:



CompactStat

&

IviumStat



New features:

- > Increased frequency range: 10 μ Hz - 3 MHz
- > Increased compliance: ± 8 V to ± 10 V
- > Increased applied: ± 4 V to ± 8 V

Booster options:

The external Plus-module is replaced by an optional power booster that is integrated inside the CompactStat:

- Better performance, higher accuracy, less noise
- Easier operation, less cabling
- CompactStat upgradable to include Booster
- Lower price

3 ex-factory configurations available:

- | | |
|------|---------------------------|
| i. | ± 10 V @ ± 800 mA |
| ii. | ± 20 V @ ± 250 mA |
| iii. | ± 100 V @ ± 50 mA |

New features:

- > Increased frequency range: 10 μ Hz - 8 MHz
- > Improved high and low frequency performance
- > Better noise reduction

New instruments:

In addition to the already known IviumStat.XR (± 20 V@ ± 5 A) the IviumStat extended-range-family now also includes:

- IviumStat.XRi: ± 10 V @ ± 10 A *Now available*
- IviumStat.XRe: ± 50 V @ ± 2 A *Expected in Q3*

**More for less:
The first affordable multi-channel
high performance instrument!**



Ivium-n-Stat:

- 1-8 channels per frame, stackable up to 64 channels
- Independent floating operation
- Modules encapsulated for easy handling

s-Module:

- ± 2.5 A @ ± 10 V (expandable to ± 5 A @ ± 10 V)
- Each channel with integrated impedance analyser: 10 μ Hz to 250 kHz
- Data acquisition rate: 100 kHz
- Current ranges 10 nA - 10 A; min. resolution: 1 pA
- Peripheral analog/digital channels

ModuLight

Programmable light source



- > Specifically designed to investigate photo-electrical devices
- > Developed to operate in combination with all Ivium potentiostats, through the peripheral I/O-port
- > Wavelength can be set programmatically: 465-635 nm in 7 steps.
- > Light intensity can be modulated using the sine wave generator of the potentiostat: 10 μ Hz to 2MHz.
- > Extensive Solar cell applications in the Ivium software, including E/I curves as function of the light intensity, IMVS/IMPS, and solar cell modelling resulting in all characteristic values of the studied object.

FastScan module

Coming soon!

**sampling: 20MHz
scanrate: 10 MV/s**

Data recorder and ultrafast scan generator add on module for CompactStat & IviumStat

Data sampling:

- 2 channels, 16 bits
- Max acquisition speed: 20,000,000 samples/sec
- Data memory: 10,000,000 data points
- Input bandwidth > 8 MHz

Scan generator:

- Max scanrate: 10,000,000 V/sec
- Vertex resolution: 0.125 mV at ± 4 V scanrange

IviumSoft

We frequently release new software:

- additional method parameters
- additional graphic data representation
- new techniques
- new analysis methods and features
- extra applications
- ...

Latest new features:

- save & restore method parameters between sessions
- working with multiple instruments on 1 PC
- automatic current ranging:
 - now also available for Chronopotentiometry
 - AutoCR in combination with Dynamic Vertexes
- view/edit scan properties
- improved noise reduction for EIS
- baseline subtraction for ECN
- process scheduler in the Batchmode
- ...

How to upgrade to the latest version IviumSoft:

Downloading new IviumSoft:

1. Go to our website at www.ivium.nl/Support
2. Click on the "IviumSoft x.xxx" link to start download
3. Unzip to make the IviumSoft.exe file available
4. Copy the IviumSoft.exe to the c:\IviumStat directory to replace the existing one
5. Start IviumSoft and upgrade the instrument firmware at the "Tools > Device maintenance" menu

After upgrading the IviumSoft, don't forget to upgrade the firmware.

New modules



Current Interrupt Module (CIM): adapter module for measuring the IR-drop via the current-interrupt technique; connects in-line with the cell-cable of the potentiostat.



Peripheral Level Transformer (PLT): adapter module that increases the voltage of the analog inputs&outputs; connected between the instrument and the periphery.



All new HiMUX: works with 8 standard cell cables to even multiplex WE2; fully compatible with all Ivium potentiostats. Stackable up to 64 channels: $\pm 20V @ \pm 5A$.

Choose the best Ivium instrument to suit your applications:

