

## Product Note P8



### CompactStat.e Instructions

The new CompactStat.e replaces the older CompactStat as Ivium Technologies mobile and portable potentiostat/galvanostat with integrated impedance analyser. In comparison to the older version the new CompactStat.e has enhanced performance and features. Some of these features need to be selected separately before they can be used.



#### A) Voltage range +/-10V:

The new CompactStat.e is capable of +/-10V compliance/applied voltage. By default the instrument operates up to a maximum of +/-4V; to increase the operating range to +/-10V install the instrument as instructed in the manual, then in the menu bar select "Options>Options" and the tabsheet "Settings". Now tick the box next to "E extended range". Close the options sheet, and in the top-left disconnect the instrument by clicking the "Connect" button. Wait 10 seconds and re-connect the instrument by clicking the same "Connect" button. Now the new range setting and corresponding calibration values are active.

**Note: Increasing the voltage range proportionally decreases the *applied* voltage resolution.**

#### B) The Ivium CompactStat.e series instruments is optionally equipped with an internal power booster. Two internal booster are available:

- I) 10V / 800mA (IP10)
- II) 20V / 250mA (IP20)

Internal boosters 800mA (IP10) and 250mA (IP20) are replacements for the Plus- and Plus2-modules that could previously be added to the CompactStat externally.

USB power: The CompactStat.e with internal booster is set-up in such a way that when the instrument is powered from USB only, the above (A) is valid and the internal booster is not activated.

Adapter power: When the CompactStat.e with internal booster is powered from the adapter, the internal booster is *automatically* activated. This means that:

- I) The CompactStat.e with booster 10V/800mA automatically can deliver 800mA. But the +/-10V range needs to be activated separately, see A) above.
- II) The CompactStat.e with booster 20V/250mA automatically can deliver 250mA and the +/-20V range is automatically activated.

#### C) When activated in the Method parameters, the bipotentiostat (payable option) of the CompactStat.e can only be operated in the +/-4 V and +/-10V potential ranges (this includes the combination with the 10V/800mA internal booster, however, the bipotentiostat maximum current is not increased). The bipotentiostat cannot be operated when the 20V/250mA booster is activated.



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