



MultiWE32

32-channel potentiostat module



- Nanotechnology
- Sensor development
- Analytical electrochemistry
- Biotechnology
- Medical research
- Semiconductor
- Corrosion

Potential applied To 32 channels simultaneously

The MultiWE32 will accommodate cells with up to 32 Working Electrodes!

- To be used as add-on module for CompactStat and IviumStat
- Operate up to 32 WE's, sharing a single CE and RE
- All channels can be sampled simultaneously
- Independent programmable offset for each channel
- 2 modes of operation:
 - sequential operation
 - simultaneous operation
- Stackable up to 8 units with 256 channels! (i.c.w. IviumStat)



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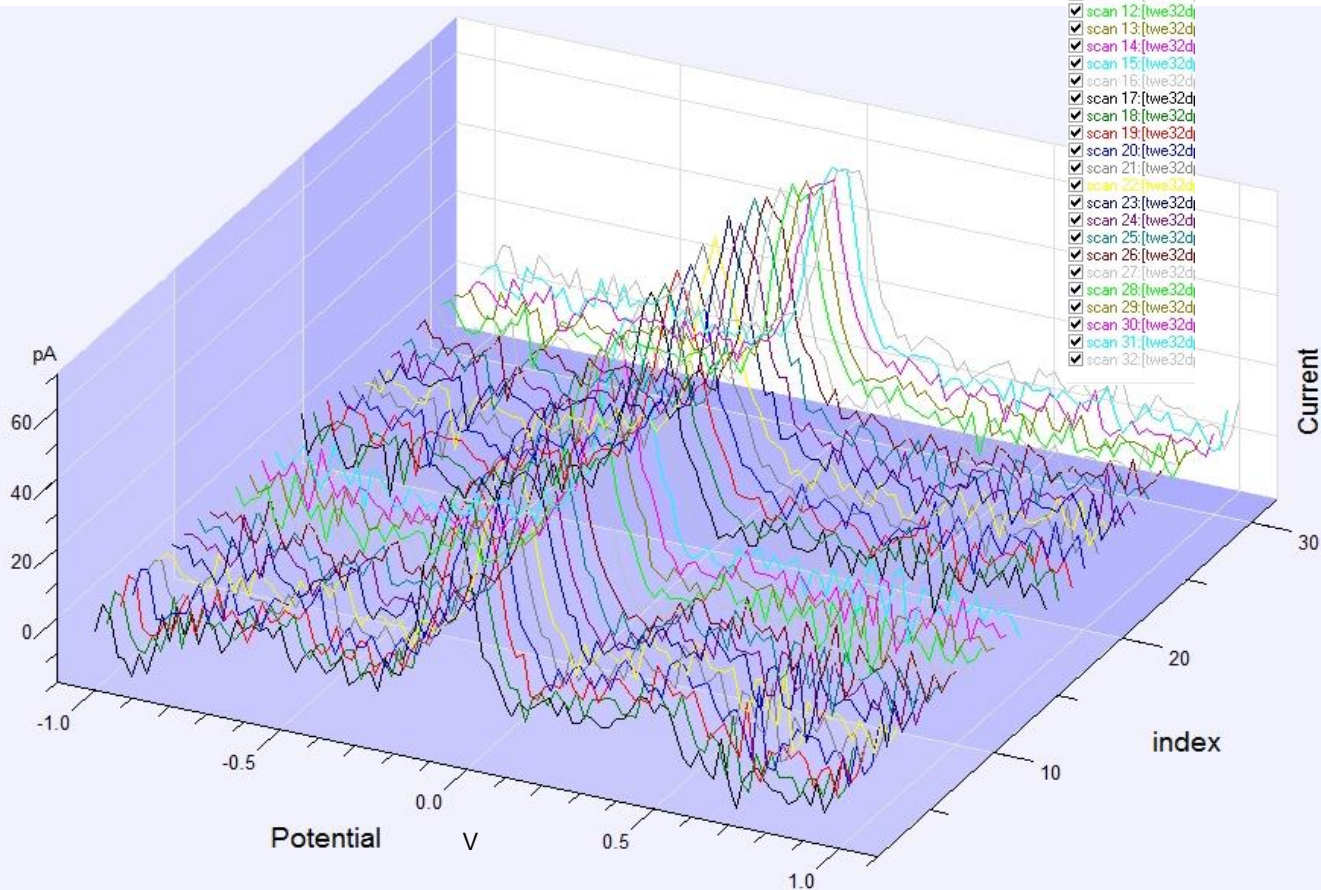
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Multichannel simultaneous acquisition

- scan 1:[twe32dpr
- scan 2:[twe32dpr
- scan 3:[twe32dpr
- scan 4:[twe32dpr
- scan 5:[twe32dpr
- scan 6:[twe32dpr
- scan 7:[twe32dpr
- scan 8:[twe32dpr
- scan 9:[twe32dpr
- scan 10:[twe32d
- scan 11:[twe32d
- scan 12:[twe32d
- scan 13:[twe32d
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- scan 26:[twe32d
- scan 27:[twe32d
- scan 28:[twe32d
- scan 29:[twe32d
- scan 30:[twe32d
- scan 31:[twe32d
- scan 32:[twe32d



DPV example at 50mV/s:
All 32 channels were acquired in a single DPV scan

Specifications:

Each channel

- Independent programmable offset
- Max current: +/- 1mA
- Max offset: +/- 2V, 0.0625mV resolution
- Max applied potential: +/-20V (determined by controlling potentiostat)
- Bandwidth > 100kHz
- Full potentiostat capability

2 Modes of operation

Simultaneous:

- CV/LSV/DPV/SQRwave/ChronoAmperometry
- Data acquisition of 32 WE currents at the same time,
- maximum rate of 10 samples/sec (0.1sec interval time)

Sequential:

- All electrochemical potentiostatic methods possible
- Frequency response analysis