IVIUM TECHNOLOGIES

innovative solutions for electrochemical research

MultiWE32

32-channel potentiostat module

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

Potential applied to 32 Channels simultaneously

The MultiWE32 accommodates cells with up to 32 Working Electrodes

- 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!
- To be used as add-on module for an Ivium potentiostat

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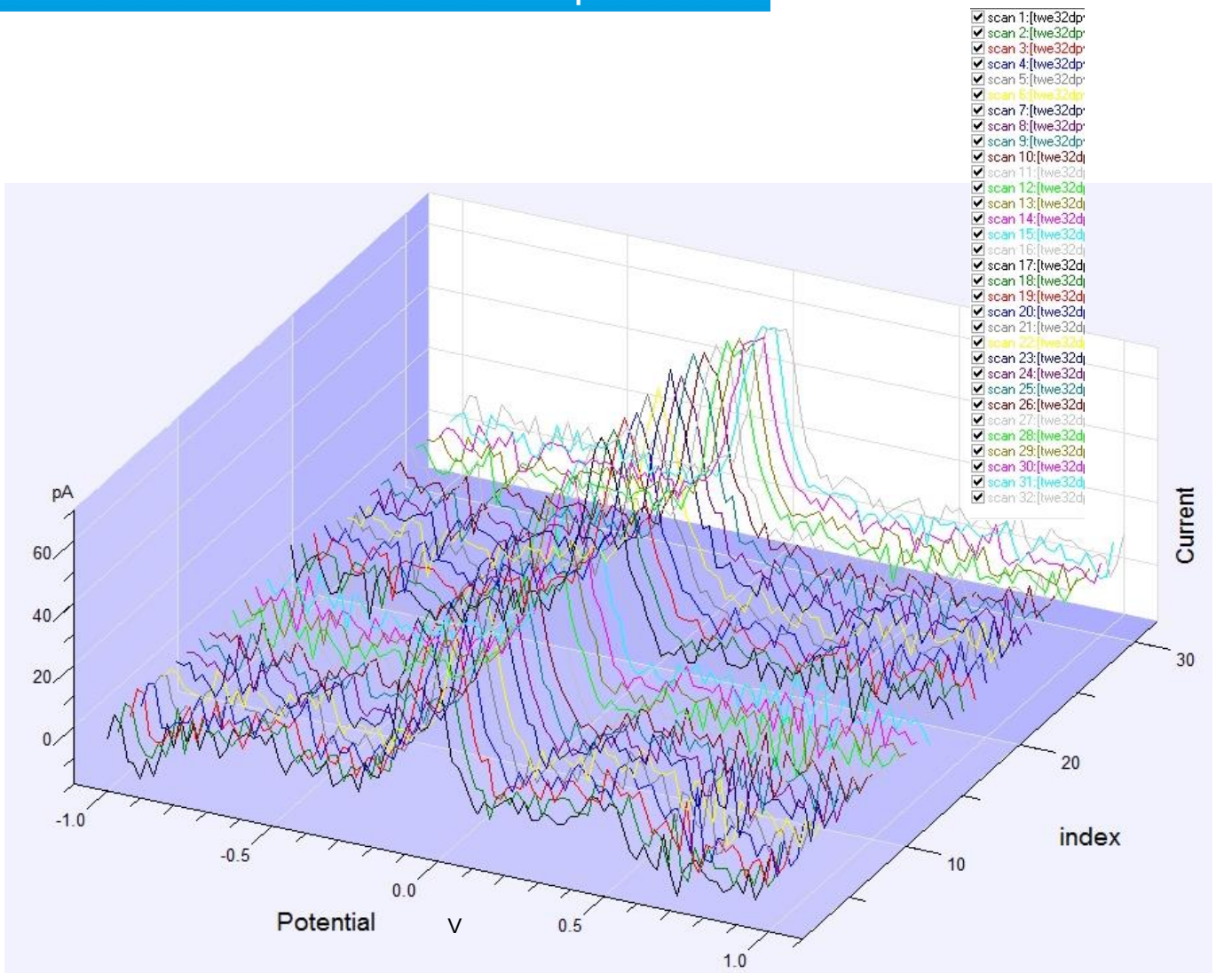
Multichannel simultaneous acquisition



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

Specifications

Each channel

Independent programmable offset
Full potentiostat capability

Max. current:	± 1mA/channel
Current ranges:	±10nA to ±1mA; resolution 0.015% of CR, min. 1.5pA
Max. offset:	±2V, 0.0625mV resolution
Max. applied potential:	± 20V (subject to controlling potentiostat)
Electrometer bandwidth	> 16MHz

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