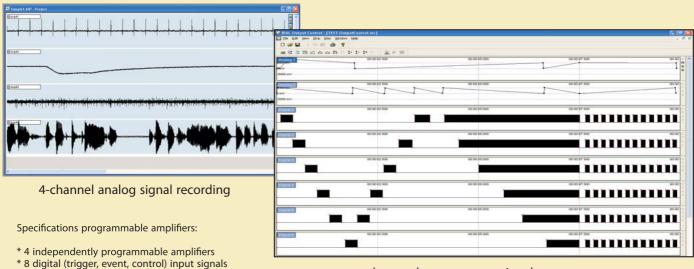
4-CHANNEL FULLY PROGRAMMABLE SIGNAL AMPLIFIER WITH PROGRAMMABLE CONTROL SIGNAL OUTPUTS



IDAC-4

The Syntech IDAC-4 interface for the USB port combines a programmable 4-channel signal amplifier with programmable output signals for direct control of solenoids, flow controllers, multichannel olfactometers, and other actuators (motors, lights, sounds).

With the IDAC-4 it is now possible to record electrophysiological signals while presenting complex, multimodal, and dynamically programmable stimuli, without the need of a separate control interface.



analog and event output signal sequences (test program)

* Input range: 20 uV - 1000 mV

* Frequency range: DC- 50 kHz

* Resolution: 16 bit

* Sampling rate: 1s - 100kHz

* All 4 channels independently programmable

* Programmable high cut-off: 10Hz - 50 kHz

* Programmable low cutt-off: DC- 400 Hz

* Special EAG filter (blocks ALL interference frequencies)

* Input offset control range: 16 bit over full scale

* Pre-trigge r 1 - 100s

* Auto-trigger on signal level

* All settings stored in configuration file

* Audio signal output

* Real-time signal display at adjustable time base

* Effect of offset, filters, sampling rate visible on screen

* Power (+, - 12V) for active input headstages (probes)

* LED indicators showing status of digital inputs

* MATLAB programmable

Specifications Output Control::

- * 2 analog output signals; range +10V to 10 V.
- * 8 digital output signals; TTL(5V) and 12 V (or 24V)
- * Digital signals suitable for direct drive of actuators * Time base resolution: 1 ms (analog and digital)

* Maximum program time: 10 hours

- * Any sequence and combination programmable
- * Easy graphical and/or numerical programming
- * Trigger can be linked to signal acquisition
- * Control of acquisition sequences over up to 10 hours
- * Direct control of 8-channel olfactometer
- * LED indicators showing digital output status

The instrument communicates with the PC via the USB port (both the signal acquisition and the output control simultaneously); It runs on any PC or laptop with Windows (XP- 7&8) and on any voltage/frequency from 100 - 240 V 50 - 60 Hz. All inputs and outputs are optically isolated.

