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Software

CellWorks is a comfortable program for data acquisition and allows complete control over the experimental setup.
IGOR Pro is a powerful tool to process and analyze data, build diagrams etc. from WaveMetrics.

CellWorks and IGOR Pro are ideal partners for data acquisition and data processing.

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CellWorks Acquisition Software

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The Turnkey Software Solution for Experimental Control and Data Acquisition

New Version 6.2 is now compatible to Windows 7 (32bit/64bit)

CellWorks is a modular program especially developed for executing complex electro–physiological and pharmacological investigations and other laboratory experiments on living cells under computer control. The software package not only performs data recordings, but is designed for complete control of the entire experimental setup allowing the automated execution of experimental procedures.

Use window to the right to look for options and additional accessories (at additional costs).

Outstanding features include
– Powerful solution and drug application management, handles lists of solutions
– Operated through an icon based, graphical, user friendly platform with multi user capability
– Available for PCs with WINDOWS 7 (32bit/64bit), WINDOWS XP on request
– Can be used on notebooks with PCMCIA interface cards from National Instruments
– Powerful editors and configuration routines make the design of turnkey solutions for different experimental situations easy

CWL–X
CellWorks software

PCI–6221
Multifunction I/O, 16–bit, National Instruments, M–Series

16 analog inputs (single ended), 2 analog outputs, 8 digital I/O lines, maximum Sampling rate 250 kS/s, maximum input range ±10 V, see also Data Acquisition Hardware

PCI–6014
Multifunction I/O, 16–bit, National Instruments

16 analog inputs (single ended), 2 analog outputs, 8 digital I/O lines, maximum Sampling rate 200 kS/s, maximum input range ±10 V, see also Data Acquisition Hardware

PCI–6503
Digital I/O, 24 channels, National Instruments

INT–20X–USB
Breakout box

USB 2.0 version with built–in interface (USB–6221). Valve manifolds for solution exchange (e.g. CW–VM–8PG) can be connected directly to the INT–20X

INT–20X

– Applications include stimulation, perfusion, pump control, presetting and direct control of the recording amplifier, communication with photometric recording devices from T.I.L.L. photonics (www.till–photonics.com), data acquisition and storage to hard disk
– Data can be exported to many programs for data analysis, e.g. IGOR Pro, pCLAMP, Sigma Plot, Origin, Synaptosoft's Mini Analysis or Dempster's Strathclyde Electrophysiology Software
– Multi–functional interface boards from National Instruments, serial ports, the INT–20X or INT–20X–USB breakout box and the VD–24 universal valve controller from npi provide the link to your experimental setup
– Can be adapted to a virtually infinite number of users and experimental environments
– CellWorks E: 16 analog input channels (12 bit or 16 bit), range ±10 V) OUTPUTS: 2 analog output channels (12 bit or 16 bit), up to 96 TTL lines, (with additional DIO boards), 8 power outputs (5 V – 24 V / 0.5 A) with breakout box for perfusion valve control.

CellWorks 6.2.2 Demo version is fully functional, but has no hardware interface and is not protected by a dongle. The hardware is simulated within CellWorks Demo. This allows not only a realistic look into the program, but also evaluation of data recorded with CellWorks full version.

The CellWorks Reader is also not protected by a dongle and is used to show and export Chart data.

Download a reference list about CellWorks/EggWorks 30 kB.
Download CellWorks 6.2.2 Demo 5.9 MB.
Download CellWorks Reader 6.2.2 1.3 MB.
Download CellWorks manuals 5.3 MB.

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Breakout box

For data acquisition boards of the E series from National Instruments, e.g. PCI–6024E or PCI–6036E. Valve manifolds for solution exchange (e.g. CW–VM–8PG) can be connected directly to the INT–20X

INT–20M
Breakout box modul

For data acquisition boards of the E series from National Instruments, e.g. PCI–6024E or PCI–6036E. More information at INT–20M under MODULES

CW–VM–4PG
4 channel system

Pinch valves, gravity fed, 60 ml reservoires

CW–VM–4PP
4 channel system

Pinch valves, pressurized, 5 ml reservoires, needs pressure controller (e.g. PR–10)

CW–VM–4SG
4 channel system

Lee solenoid valves, gravity fed, 60 ml reservoires

CW–VM–4SP
4 channel system with Lee valves

Lee solenoid valves, pressurized, 5 ml reservoires, needs pressure controller (e.g. PR–10)

CW–VM–8PG
8 channel system

Pinch valves, gravity fed, 60 ml reservoires

CW–VM–8PP
8 channel system

Pinch valves, pressurized, 5 ml reservoires, needs pressure controller (e.g. PR–10)

CW–VM–8SG
8 channel system

Lee solenoid valves, gravity fed, 60 ml reservoires

CW–VM–8SP
8 channel system

Lee solenoid valves, pressurized, 5 ml reservoires, needs pressure controller (e.g. PR–10)

PR–10
Pressure controller

0–0.7 bar (0–10 psi)

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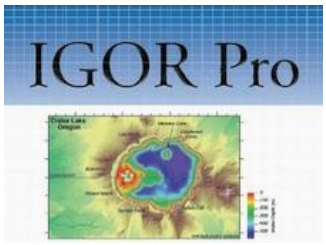
IGOR Pro
Data Processing



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npi recommends IGOR Pro for data analysis and processing, because CellWorks data can be exported directly to IGOR Pro. IGOR Pro is a powerful programm for processing and visualizing scientific data.
Go to WaveMetrics for complete information on IGOR Pro.

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IGOR
IGOR Pro version 6

Data analysis

IGOR–NIDAQ–MX
IGOR Pro version 6 extension

Data acquisition module for IGOR Pro 6. Allows direct data acquisition using NIDAQ MX from National Instruments

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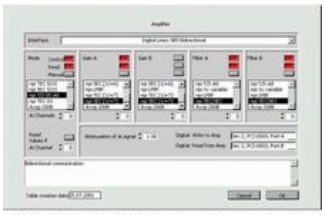
INFA interface for CellWorks



CW configuration for bidirectional communication

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The INFA interface provides amplifier control from the CellWorks software. If the INFA interface is installed in a TEC or SEC amplifier from npi, mode of operation, filter and gain settings can be read and set in CellWorks.
This option requires a B or E–Series multifunction I/O board (e.g. PCI–6014 or PCI–6036E) and a digital I/O board (e.g. PCI–6503) from National Instruments.

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CW–INFA
INFA interface

For bidirectional communication with TEC or SEC amplifier