



# THE LOGICAL INTERFACE DATA LOGGER CATALOGUE

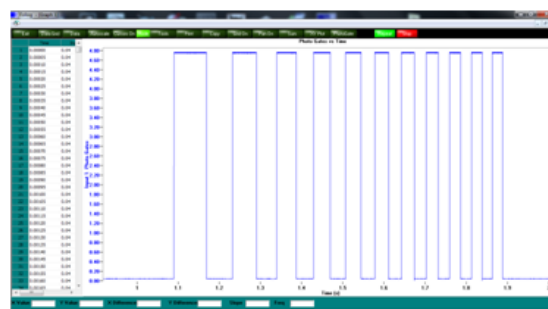
## The Ezilog USB (Release 2.5)

**Inexpensive, yet powerful data logging is here - and it's Australian made! \$270.00 (Ex GST).**

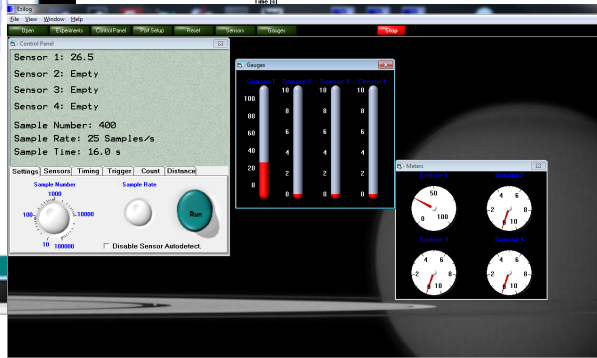
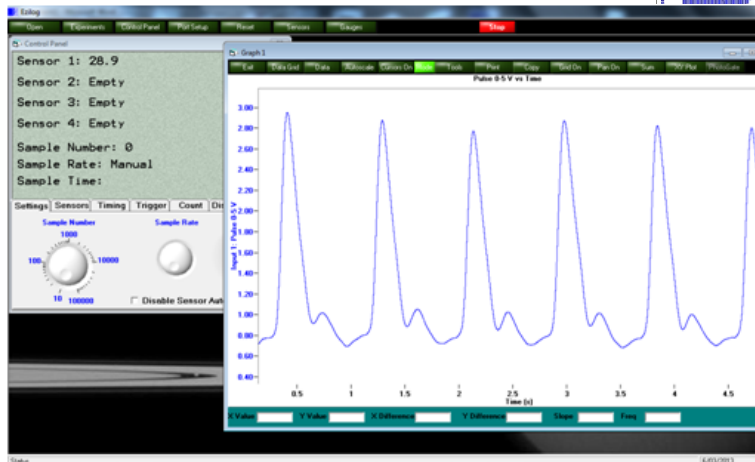
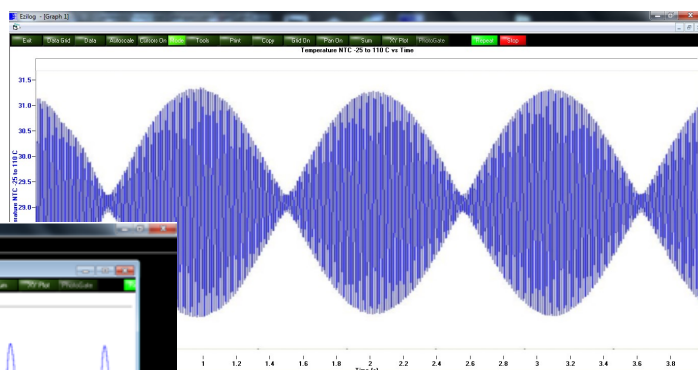
Convert your computer to a powerful data logger with the Ezilog USB. Connect our own TLI, Fourier "Nova 5000" and many other popular brand sensors directly into the USB port of your computer with the Ezilog USB. Contact us to find out whether your sensors will work with the Ezilog USB. **Includes the latest Ezilog USB data logging software FREE!**

### Features

- Over 40 different sensors available from temperature, pH, distance to heart rate.
- Can read from up to four sensors simultaneously, two sensors with auto detect.
- Connects directly through USB port of your computer.
- Samples up to 20,000 samples per second.
- Connects to popular brand sensors.
- 12 bit resolution provides high accuracy.
- Rugged aluminium case makes this logger almost indestructible.
- Easy to use yet powerful software.
- Digital ticker timer mode.
- Includes our online experiment manual **FREE**
- **Made in Australia by The Logical Interface.**



**Ezilog USB Ultra** is a mobile data logger. It combines the Ezilog USB with a notebook or Tablet PC running Windows 8. With the Ezilog USB Ultra you can run all your software and connect to your school network, the internet, a digital display, or Interactive Whiteboard. **(From \$690.00 Ex GST).**



**Prices in this catalogue are subject to change. Discounts are available for purchases of more than 4 items. Please contact us for latest pricing.**

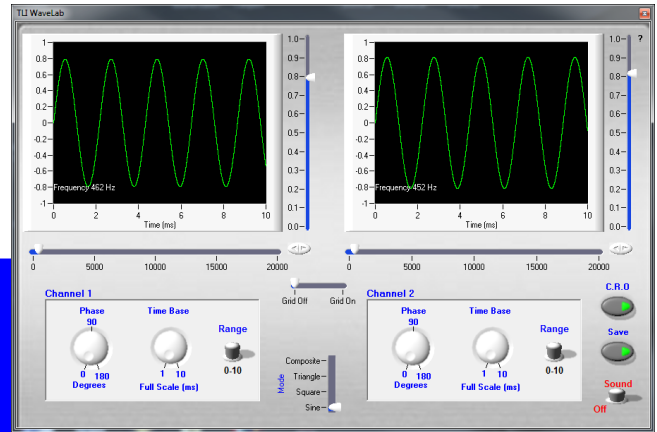
# TLI Computer Wave Gen: Computer based Dual Channel Signal Generator

## Ideal for use with Interactive Whiteboards

Turn your computer into a powerful Wave Laboratory. Create sine, square and triangle waves. Demonstrate beats, interference and other wave properties with our Computer Wave Lab - the perfect companion to our range of data loggers.

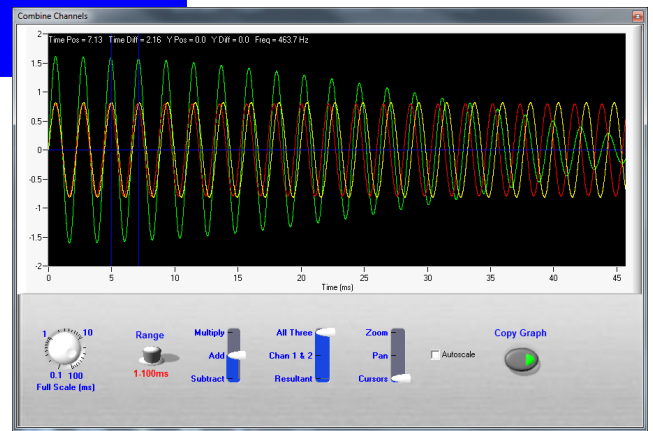
### Features

- Generates waves of variable frequency to 20 kHz.
- Dual channel output to your data logger, or oscilloscope.
- Control phase difference between the two wave sources.
- Simply play through your computer speakers.
- Use the software on its own, or with the Computer Wave Lab interface.
- Oscilloscope mode converts the TLI WaveGen into a virtual dual channel signal generator and CRO for measurement of amplitude, period and phase difference.
- Use the oscilloscope mode to add, subtract and multiply waves.



### How it Works

By developing software that uses your computer's internal oscillator and multimedia capabilities to drive our interface, we have created a powerful Computer Wave Lab that replaces traditional signal generators at a fraction the cost. As each channel (speaker) is controlled individually you can create two sources of waves from the one oscillator ensuring the frequencies do not 'wander'. These "sources" can then be output to the computer's speakers, or through the Wave Lab interface to your oscilloscope, or data logger.



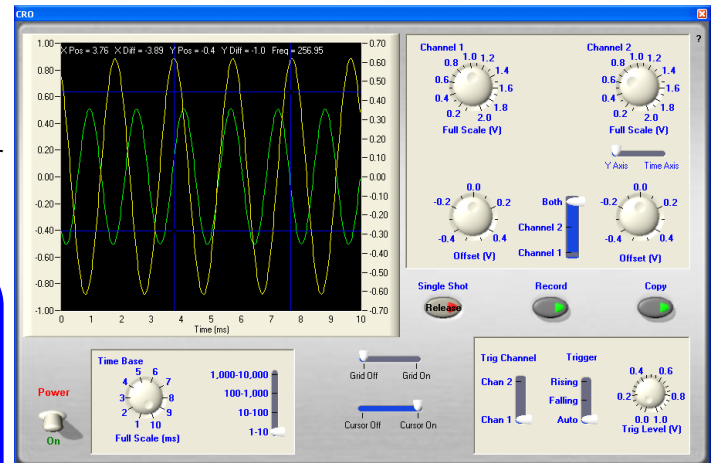
## TLI CRO

### Computer Dual Channel Oscilloscope

TLI CRO turns your PC into a dual channel oscilloscope. Using your PC's sound card you can view input from a microphone, or optional interface. TLI CRO provides a traditional oscilloscope view with gain, offset, timebase, and trigger controls.

### Features

- 16-bit acquisition
- 44 kHz sampling rate
- View the output from your AC/DC power supplies, transformers and generators with our optional interface.
- Ideal for schools and other educational organisations.

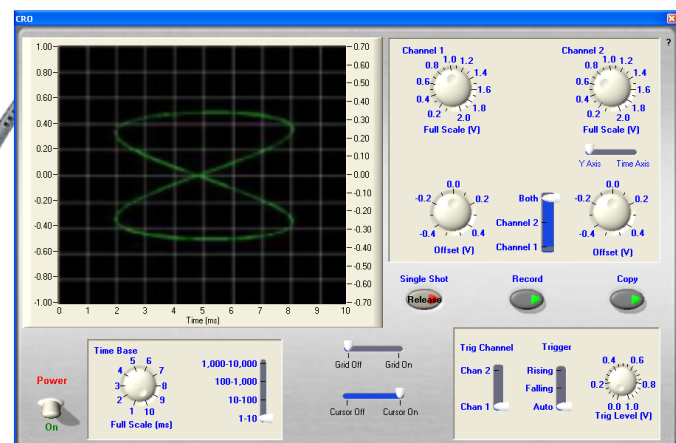


Made in Australia by The Logical Interface

### Pricing

TLI WaveGen	\$332.00 (Ex GST)
TLI CRO	\$250.00 (Ex GST)
TLI WaveLab System	\$490.00 (Ex GST)
(Includes TLI CRO and TLI WaveGen site licence and Interface.)	

Download trial versions from our website.



## Pasco 550 Universal Interface and Capstone software

With the 550 your physics lab is equipped with high speed data collection, signal generation and power supply, oscilloscope and FFT displays, timers and more.

As well as USB 2.0 connectivity, the 550 also features the ability to wirelessly send data from sensors plugged into the 550 directly to a Bluetooth Classic enabled Mac or Windows computer running PASCO Capstone or a computer, iPad or Android tablet running SPARKvue software.



Works with Sparkvue and Capstone software

### Features

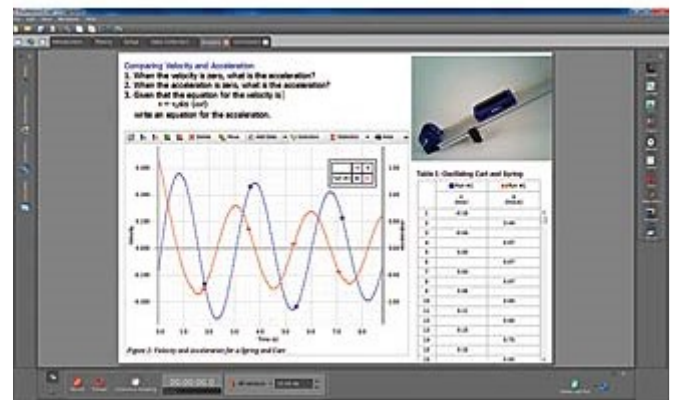
- 2 MHz max sampling rate
- 2 high-speed analog inputs
- 2 digital inputs for photogates and other timing sensors
- 2 PASPORT sensor inputs
- Signal generator with built-in Voltage and Current sensors
- Connect to computers via USB

[Contact us](#)

## Pasco 850 Universal Interface and Capstone software

The 850 is PASCO's most flexible interface and is designed specifically to be used in conjunction with the powerful PASCO Capstone software. The 850 interface boasts four digital inputs, four analogue ports, four PASPORT sensor ports, a 15 W function generator, dual high speed function generators and much more.

With Capstone software you can create and customize lab pages quickly and easily setting sample rates and tool palettes for each page individually. Sync your data collection with video or replay your data collection at slow, normal or fast speed. Simple to use tables make it easy to rearrange and analyze data and the calibration wizard helps to create experiments simply and accurately.



[Contact us](#)

### Features

- Four Photogate Ports - directly connect photogates, Time-of-Flight and more.
- Four Analog Ports - For use with all analogue Science Workshop sensors such as Voltage, Force and Sound
- Four PASPORT Ports - compatible with the complete line of more than 70 PASPORT sensors
- 15 Watt Function Generator with Power Amplifier
- Dual Independent High Frequency Function Generators
- High Speed Sampling - up to 10 MHz on two channels or 1 MHz on four channels.
- USB 2.0 computer connection
- External Trigger Input/Output for synchronizing multiple 850s and more
- Analog inputs protected up to  $\pm 300$  volts. Outputs and power supplies are short circuit proof.
- Includes PASCO's five year warranty.

# Pasco Data Loggers and Sensors (For use with Macs, PCs, or Mobile Devices)

## AirLink for iPad and Android **Contact us for pricing**

Pasco's most cost effective interface. Connect one PASPORT sensor via Bluetooth® or through a direct USB connection. Collect data in or out of the classroom using computers, tablets or smart phones. The all-new AirLink is the most economical way to use PASPORT sensors. Just plug the sensor in, connect to your device and begin collecting data.

Bluetooth pairing is done within the SPARKvue app making the entire process quick and simple. Need more than a single PASPORT sensor per lab station? Multiple AirLinks can be used simultaneously. The AirLink is compatible with Pasco's entire range of over 80 PASPORT sensors. Also support for Chrome Books.



### Features

- Single sensor port for wireless connection to your Bluetooth enabled computer.
- Use SPARKvue for iPhone and Android apps with the AirLink and collect and analyze your data anytime and anywhere.
- 1000 Hz Maximum Sampling Rate with PASPORT Sensors.

## Pasco wireless sensors **Contact us for pricing.**

Pasco wireless sensors use Bluetooth to connect directly to iPads, Android devices etc. Available sensors include Temperature, pH, Force, CO<sub>2</sub>, Conductivity, Light, Voltage, Current and Pressure. Contact us, or visit our website for further details.

### Features

- Connect directly to Mac & Windows computers, Windows tablets, iPads, iPhones, Android tablets and phones and Chromebooks using Bluetooth® Smart.
- In app pairing and proximity pairing make them easy to use.
- 5-year warranty.
- Low-cost.



## PASCO Wireless Spectrometer **contact us for pricing**

The PASCO Wireless Spectrometer is specifically designed for introductory spectroscopy experiments. The Bluetooth and USB connectivity enable use with tablets and computers. With this one apparatus, you can measure intensity, absorbance, transmittance and fluorescence, making this a powerful and intuitive tool for your spectroscopy needs. Includes 10 plastic cuvettes and lids. Perform these labs and more with the Wireless Spectrometer.



### Chemistry

- \* Emission Spectra of light
- \* Absorbance and transmittance spectra
- \* Beer's Law: concentration and absorbance
- \* Kinetics, Fluorescence

### Biology

- \* Photosynthesis with DPIP
- \* Absorption spectra of plant pigments
- \* Concentration of proteins in solution
- \* Rate of enzyme-catalyzed reactions
- \* Growth of cell cultures

### Physics

- \* Light intensity across the visible spectrum
- \* Emission spectra of light sources
- \* Match known spectra with references

## Pasco Wireless Smart Cart contact us

The Smart Cart is the ultimate tool for studying kinematics, dynamics, Newton's Laws and more. It is based on a durable ABS body with nearly frictionless wheels just like our high quality PAScars. But now we've added built-in sensors that measure force, position, velocity, and 6 degrees of freedom in acceleration. And the Smart Cart can make these measurements on or off a dynamics track and transmit the data wirelessly over Bluetooth®. In essence it is a wireless dynamics cart that combines all the necessary sensors and doesn't require any additional hardware.



Smart Carts require either Pasco Capstone software on Windows® and Mac® computers, or SPAEKVue software to pair directly with computers (Mac/Window), tablets (Windows, iPads & Android), phones (iPhones & Android) and even Chromebooks™

Please visit our website to view videos of the Smart Cart in action.

## TLI Mass Sensor-Balance Version 2 600g 0.01g resolution Contact us

Version 2 of our Mass Sensor Balance has been developed in response to your requests for a high resolution balance to connect to the Ezilog USB. This balance is a high quality, industrial strength balance, Adam HCB, with a 0.01g resolution and 600g, 1000g range. It can be used as a stand alone electronic balance, a stand alone sensor connected directly to your computer, or in conjunction with your Ezilog USB data logger.

### Typical Experiments

- Volumetric measurements - titrations etc.
- Rates of Reaction.
- Transpiration
- Photosynthesis
- Ampere's Law: Force vs Current.
- Current Carrying Wire in a Magnetic

