



MultiLogPRO™

An Affordable,
User-Friendly, Standalone
Data Logger

MultiLogPRO™ is an affordable, user-friendly, standalone data logger useful for teaching science from middle school through college. Among MultiLogPRO's features are: an LCD graphical screen with 12-bit resolution, 128K internal memory and a built-in timing module to measure time, speed and acceleration.

MultiLogPRO is so user-friendly, anyone can begin an experiment in seconds. This data logger can collect data simultaneously from up to 8 sensors and store up to 99 experiments in its internal memory.

MultiLogPRO comes equipped with a rechargeable battery, an AC/DC Adaptor and also includes a backup memory battery allowing samples data to be saved for up to 10 years.

For more advanced data analysis, MultiLogPRO requires a computer.



MultiLogPRO P/N: 529-US8 Ti

Key Features:

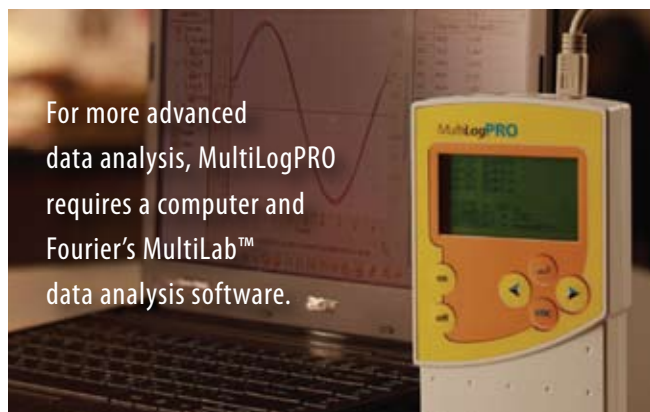
- Graphic display
- Compatible with over 65 sensors
- Powerful data analysis software
- Multimedia reports of experiments with data, video and text files
- Experiment guides covering:
 - Physics
 - Biology
 - Chemistry
 - Environmental Science



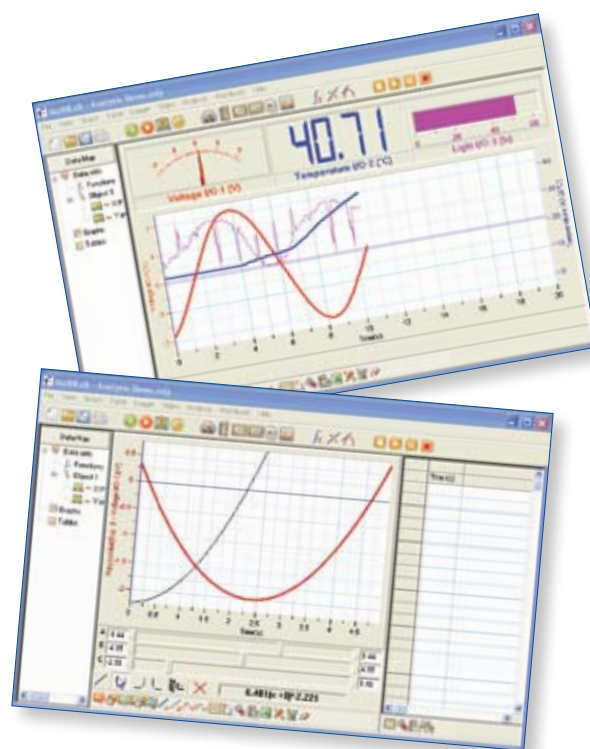
MultiLab™ Data Analysis Software:

MultiLab™ is a comprehensive data analysis program that provides everything students need in order to collect, present (in graphs, meters and tables) and investigate data with sophisticated analysis tools and view online or recorded video movies of the actual experiment.

The software windows can display a graph, table, video and a navigation pane, called the Data Map. All four windows can be displayed simultaneously or any combination of the four, as needed.



For more advanced data analysis, MultiLogPRO requires a computer and Fourier's MultiLab™ data analysis software.



MultiLab™ Key Benefits:

- **Defining Sensor Properties** for sensors that produce more than one measurement or where data is displayed in different units; for example velocity and acceleration with a Distance Sensor.
- **The Timing Wizard** is used to take direct measurements of time, velocity or acceleration with one or two Photogate Sensors and is essential for conducting collision experiments.
- **Predicting Tool** allows students to plot predictions of experiment results and compare this to the actual data as it is plotted in real-time.
- **Excel Export/Import Feature** is MultiLab's sophisticated lab reporting tool for displaying recorded data in Excel.
- **Record Your Own Experiment** (data & video) with a standard webcam to document your experiment and create video lab reports.
- **Multimedia Lab Reports** can be easily created by importing graphs and tables from MultiLab into Office applications like Word and PowerPoint.
- **Video Motion Analyzer** converts any motion movie into position data and applies MultiLab's advanced math functions to analyze the motion.

MultiLab™ Key Features:

- Intuitive and easy-to-use
- Online streaming of sensor data display
- Collect data from multiple sensors simultaneously
- Multiple sensor displays: graphs, tables and meters
- A large suite of math functions for analyzing the data
- Excel compatible (import / export data)
- Online display of streaming sensor data from NOVA AIR
- A rich pedagogic library of experiments developed by science education experts
- Educational Workbooks featuring multiple experiments and guide manuals
- Multimedia-synchronized recording of video and data from the sensors
- Video Motion Analyzer that converts Works seamlessly with Office applications
- Localized interface solution for over 15 languages
- Operating Systems:
Windows XP / Windows 7 (32 & 64 bit) / Mac / Linux

(Functionality may vary between platforms)



Over 65 Sensors

Fourier provides over 65 external sensors, suitable for conducting hundreds of different types of experiments in the fields of Biology, Physics, Chemistry and Environmental Sciences.

Fourier's high performance sensors deliver a high level of measurement accuracy across a wide range of parameters, both in the classroom and in the field.

Be sure to check our website for the most up to date list of available sensors!





Proprietary Curriculum Content

- In addition to over 65 sensors and the MultiLab data analysis software, MultiLogPRO can be further enhanced by Fourier's curriculum content.
- The following experiment books were written for use with MultiLogPRO:
- Experiments in Biology
- Experiments in Chemistry
- Environmental Science & Water Quality
- Experiments in Physics
- Math in Science Experimentation
- Middle School Activities



MultiLogPRO Bundles

	Quantity	Part Number
 MultiLogPRO	1	529-USB(Ti)
 MultiLab Data Analysis Software	1	
 MultiLab Guide for NOVA LINK & MultiLogPRO	1	BK023
 USB Cable	1	DT180
 Serial Com Cable	1	DT135
 AC/DC Adaptor	1	Based on Location
 Sensor Cables Pack of 4	1	13706
 Biology Experiment Book	1	BK029
 Chemistry Experiment Book	1	BK030
 Physics Experiment Book	1	BK031
 Carrying Case	1	DT061

MultiLogPRO Starter Bundle

USA: DB529-USA

UK: DB529-UK

EU: DB529-EU

AU: DB529-AU

MultiLogPRO Comprehensive Bundle

USA: DB5290-USA

UK: DB5290-UK

EU: DB5290-EU

AU: DB5290-AU

MultiLogPRO Technical Specification

- **Inputs**
 - Auto ID mode:
 - Up to 4 simultaneous analog inputs
 - Up to 2 simultaneous digital inputs
 - 8 sensors mode:
 - Up to 8 simultaneous analog inputs
 - Up to 2 simultaneous digital inputs
 - Over 65 external sensors available
- **Outputs**
 - RS232 PC Host Interface at 19,200 bps
 - USB communication
- **Sampling:**
 - Capacity: 104,000 samples
 - Rate: Variable, from 1 Sample/Hour to 20,800 Sample/Sec
 - Resolution: 12-bit (1024 Levels)
- **Features**
 - Keypad: Enables manual programming
 - LCD Graphic display: 64 x 128 pixels, shows logger setup and measured data
 - Automatic sensor recognition (for 4 inputs)
 - Automatic self test: Reports system status
 - Trigger: Programmable or manual
 - Calibration: Auto calibration of sensors offsets
 - Built-in timer for delayed logging
 - Memory backup battery: Data saved up to 10 years
 - Built-in clock & calendar: Keeps track of time and date of all stored data
 - Built-in 7.2 V rechargeable battery
 - Event recording
 - Timing module for measuring time, speed and acceleration with stopwatch feature
- **Power Supply:**
 - Voltage: Internal 7.2 V NiCd battery or External 9 V to 12 V DC input
 - Battery life: 100 hours (no sensor connected)
- **Software:** MultiLab
- **Operating Temp. Range:** 0 to 50 °C
- **Dimensions:** 185 x 100 x 32 mm
- **Weight:** 450 gr
- **Standards Compliance:** FCC, CE
- **Optional Accessories:**
 - Com. Cable 1.5 m
 - Com. Cable 30 m
 - Female to female adaptor
 - Sensor Cable 1.5 m
 - Sensor Cable 10 m
 - Splitter Cable
 - MultiLogPRO carrying case

Bundle configurations are subject to change without notice



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