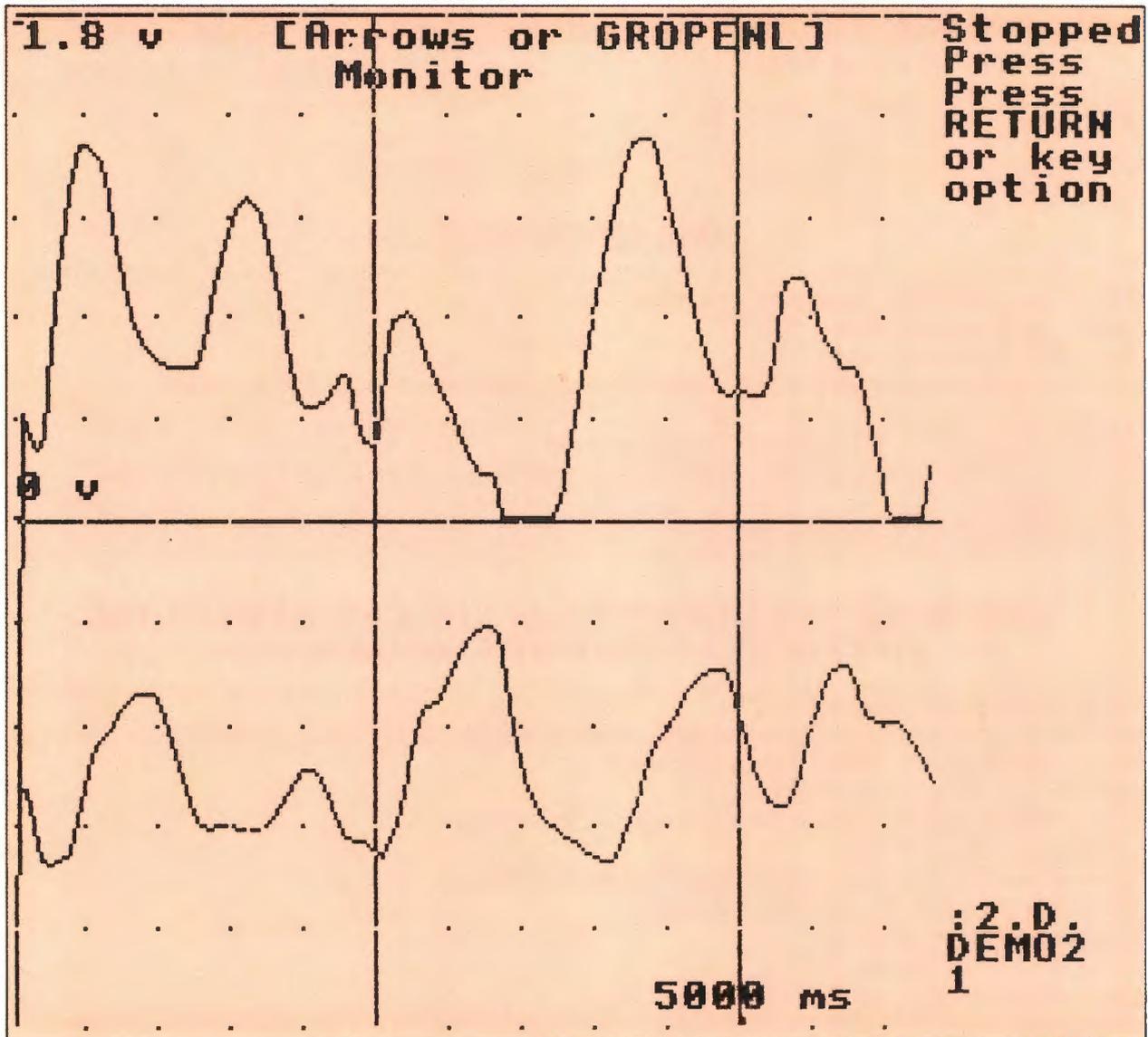# SoftOscilloscope

for BBC B, B+ and Master

A powerful emulation of the storage oscilloscope enabling fast real-time collection and analysis of data from many sources. You can input data at up to 100 Hz through the games paddle port. SoftOscilloscope is also configured to run with Unilab, Griffin and George, Philip Harris, Oasis and 3D A/D converters and the publishers will favourably consider configuring other converters on request, or, if you purchase the Professional version, you can do this yourself. With more sophisticated converters, SoftOscilloscope can process data at up to 50,000 Hz. In order to let those without A/D converters, but with access to a soldering iron, exploit all the features of SoftOscilloscope, a printed circuit board is provided free to each purchaser, enabling construction of a sophisticated A/D converter at negligible cost.

SoftOscilloscope is fully menu-driven and has features camparable to instruments costing hundreds of pounds — even thousands. It can be used for professional data processing encountered in biological research (nerve potentials, etc.), engineering, etc. etc.

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WHAT YOU GET

SoftOscilloscope EPROM appropriate to version
SoftOscilloscope program disk
Detailed SoftOscilloscope manual
Analog-to-digital converter printed circuit board to create your own ultracheap A-D converter

Overlay BASIC EPROM demonstration disk and manual
SoftOscilloscope OSC and SoftScreen applications manual to show how to collect and display data fast in real-time
Disk of additional SoftOscilloscope routines

NOW MORE DETAILS ON WHAT YOU CAN DO WITH THE DIFFERENT VERSIONS OF SoftOscilloscope

Work with one or two analog inputs
Use on-board games paddle converter for data collection at up to 100 Hz with real-time display and scrolling
Trigger as signal on first channel passes a threshold
Single sweep or sweep continuously
Low pass filter on one channel and display results on 2nd channel
Signal-average sweeps of data
Store data in memory, on disk – including current system settings
Retrieve data from disk into memory and replay
Screendump to Epson printers
Calibrate the sample timings
Display a second channel against the first
Interface to external A-D converter for data collection at up to 50,000 Hz: routines installed for above-mentioned card plus Unilab, Griffin and George, Philip Harris, Oasis and 3D
Real-time display of data at up to 500 Hz; at faster speeds data alternately collected and displayed
Interfaces with controlled gain and/or D to A converters can be supported

Open access to all systems: adapt fully to your own requirements
Supports user-supplied trigger sensing routines
Post and pre-trigger
Collect several pages of data
Provide additional facilities for user-supplied filters
Analyse data in real-time with software provided
Analyse data in real-time with user-supplied BASIC or machine code routines
Write a configuration file which can be used by another BASIC program to collect, display and analyse data

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