

# PS40M10 "SwordFish" Hand Held USB Oscilloscope



## description

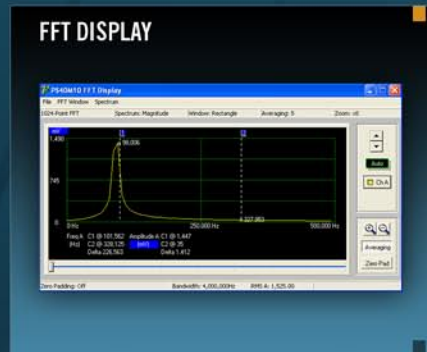
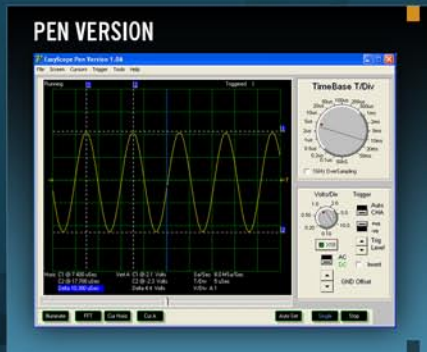
The **PS40M10** "SwordFish" is a unique hand held device that combines the functions of Oscilloscope, Data Logger, Spectrum Analyser, Volt Meter and Frequency Meter in a single instrument. "SwordFish" features a user replaceable precision spring loaded probe tip which can be used to probe even small smd components. The probe tip and cover can be removed, revealing a standard phono ( RCA ) socket. A phono to BNC adapter ( supplied ) allows "SwordFish" to connect to standard oscilloscope probes or BNC cables if required. Powered from USB, "SwordFish" needs no external power supply. "SwordFish" features a 10-bit ADC with a true sampling rate of up to 40M Samples /sec and sophisticated hardware triggering.

The over-sampling feature of the EasyScope II software allows repetitive waveforms to be viewed at an effective resolution of up to 1nS ( = 1G Samples / sec ). "SwordFish" comes complete with EasyScope II ( oscilloscope ) and EasyLogger ( data logging ) software. The supplied Windows DLL's allows 3rd party applications to easily interface to SwordFish. Example code in several popular programming languages including LabView are provided. Windows CE and Linux drivers are also available on request.

## features

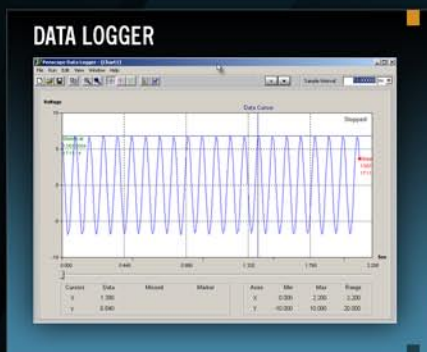
- 10 Bit ADC Resolution
- 1G S/s sampling rate ( repetitive ) 40M S/s native
- Maximum input voltage +/- 50V
- AC / DC Coupling
- Edge, min/max pulse width and delayed trigger modes
- Analog Bandwidth 5MHz
- Self Powered USB Interface ( 250mA )
- Precision spring loaded probe tip or BNC connection
- Hardware upgradeable over USB
- Dimensions W: 34mm x H: 24mm x D: 240mm
- Weight : 160g including cable

## EasyScope II Features



- Timebase - 50ns/div to 50ms/div in 19 steps
- Y-Scale 100mV/div to 10V/div
- On Screen X and Y measurement cursors
- FFT Spectrum analyser display
- Meter Displays – Min / Max / Mean / True RMS voltage + Frequency
- Save results to CSV file

## EasyLogger Features



- Sampling Rate – 20,000 samples / sec to 100 sec / sample
- Flexible Y-axis scaling ( V / mV / User Defined )
- Flexible X-axis scaling ( sample number or time )
- Save to CSV , bmp, txt or binary files
- Import from previously saved binary files
- Up to 3 on-screen cursors to track data
- Up to 4 pop-up or e-mail alerts
- Text memos for incorporating user notes in the data