

# Re: Oscilloscope Shopping on a \$2000.00 Budget

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  - *Date:* Sun, 07 Oct 2007 13:49:17 GMT
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On a sunny day (Sun, 07 Oct 2007 11:31:27 GMT) it happened nico@xxxxxxxxxxxxx (Nico Coesel) wrote in <[4708c298.104083594@xxxxxxxxxxxxxxxxxx](mailto:4708c298.104083594@xxxxxxxxxxxxxxxxxx)>:

There may be other reasons to buy, like 'a tek loks good in my workshop', etc... there are people who collect stuff like that... impresses customers.

How about 'a bought oscilloscope works out of the box'?

But it likely won't have all the fun things YOU could think of.

most of the development time. I estimate an DSO is 5% hardware, 95% software.

Well, depends what you want to add to 'software', advanced signal analysis.. fft.. whatever.., these algos are well known, and are available as GPL, assuming the little FPGA board runs Linux for example. With tools like xst hardware (HDL) design may be challenging, and time consuming.

The input circuitry poses some interesting challenges though.

Absolutely, I would like at least 10mV sensitivity, so some gain is needed too.

The plus side is, that once it works OK, you can sell it. And if it breaks down, you can fix it yourself. And software updates if you need a specific function are possible.

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Only limited by the imagination.

On fpga4fun is a little 100 MHz scope:

<http://www.fpga4fun.com/digitalscope.html>

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