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I'm playing with circuits as a hobby. Programming PICs all the way from tiny MicroChip things up to the ESC32 recently. Building gadgets. It was time to retire the old DSO203 and move up to something better. I am not going to talk about the accuracy and functions of the SDS-1104X-E or stuff like that. There are plenty of folks here far more qualified than me to do that and if you got this far in the reviews, you had enough of that. I am just going to talk about it from a hobby user point of view. There has been a lot of talk (blog talk, that is) lately about USB based PC Oscilloscopes rivaling benchtop ones. It seems to make sense. Your laptop (or desktop) already has a very nice display and plenty of processing power. So why not save that money and divert it into better analog circuitry and ADCs, then use the PC to do the rest? Sounds good, but unfortunately that isn't how it seems to work. There wasn't a single USB Oscilloscope out there where people are really happy about the PC side software for it. Crashing here, incompatible with WinWhatever there, yadda, yadda. Analog input bandwidth and more so memory depth also seem to be lagging behind badly. And to make matters worse, I am an Open Source fanatic, preferring to do whatever I can on Linux or more exotic systems. Special Windows only USB what? Excuse me? So I said to myself "get over it and pay for that extra display and the knobs already!" Am I glad I did. Fun thing is, the SDS-1104X-E allows me to experience what I would have had, in case a USB scope had a really nicely working UI. Because it has that on top! The SDS-1104X-E has a built in HTTP server on it's LAN interface. The WEB UI looks almost like the physical thing, and I have to hand it to the developers, they did a fine job emulating that UI. But then again ... First impression about the UI: Physical knobs are better than clicking around with a mouse. You cannot look at the waveform and click virtual buttons the same as looking at the waveform and turning or pushing several physical knobs. You could if you were a Chameleon, using your two eyes to look at different things at the same time, but you aren't. Second impression: Man is that screen nice. Super Phosphor ... can I have one of those in 1920x1080 for my laptop please? Third: I am developing Microcontroller software ... so mostly I am somewhere editing source code, compiling it, uploading/flashing it to the device, now I have to flip back and forth between the O-Scope, the app controlling my gadget and my source code to figure out what went wrong this time? Wish I had a second screen ... wait, what? Right, that extra screen is what you want anyway. An Oscilloscope is not something running in the background. When you need it, you need it in the foreground "together" with whatever you are measuring. Disclaimer: I never owned a USB based PC Oscilloscope ... and I probably never will. Regards, Jan With the largest display and highest available channel count in its class, the 4 Series offers unprecedented insight in a bench-friendly package. And its made-for-touch user interface works exactly as you'd expect. See more oscilloscope models. Products & Services Products & Services Resources Support Buy Sign in to your Teledyne Lecroy account Sign In English Deutsch Français Italiano 日本語 中文

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