

## USB Mixed-Signal Oscilloscope



Saelig Company, Inc. announces the availability of a new, entry-level mixed-signal oscilloscope - the PicoScope 2205 MSO. This lightweight scope adapter provides a two-channel oscilloscope combined with a synchronous 16 channel logic analyzer, all in one compact, portable USB instrument. Analog waveforms and digital data can now be displayed simultaneously on the same screen with the efficient and easy-to-use PicoScope software.

PicoScope 2205 MSO's analog bandwidth is 25 MHz and the digital channels can accept signals as fast as 100MHz with a maximum sampling rate of 200 MSa/s. PicoScope 2205 MSO is suitable for general-purpose analog and digital circuit design, testing and troubleshooting. Since it is USB port-powered, no bulky AC adapter is required. A 48kSa buffer allows for storage of multiple captures in rapid sequence as little as 2 microseconds apart.

The free PicoScope software delivers a high-resolution, uncomplicated visual display, and it incorporates a range of advanced signal processing features: spectrum analyzer, automatic measurements with statistics, channel math, reference waveforms, multiple scope and spectrum views, I2C, UART, SPI and CAN bus serial decoding, XY mode, advanced triggers, mask limit testing, and color persistence display modes, etc.

16 digital inputs can be displayed individually or in arbitrary groups labeled with binary, decimal or hexadecimal values. A separate logic threshold from -5 V to +5 V can be defined for each 8-bit input port. The digital trigger can be activated by any bit pattern combined with an optional transition on any input. A valuable feature with this MSO is that analog and digital triggers can be combined using Boolean logic to enable complex mixed-signal triggering.

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A Software Development Kit (SDK) is also included, which allows scope control using custom or third-party software. The SDK and PicoScope are compatible with Microsoft Windows XP, Vista and Windows 7 operating systems. Example programs in C, Excel and LabView are provided.

The included PicoScope software for Windows, which harnesses the PC's processing power, storage, graphics and networking capabilities. The user interface is easy for novices to learn, but professional users will find many advanced features including spectrum analysis, persistence display, automatic measurements, advanced triggers and channel math capabilities. Users can download software updates, feature extensions and improvements free of charge.

Made by Pico Technology, Europe's award-winning oscilloscope adapter manufacturer, PicoScope 2205 MSO is supplied complete with two passive x1/x10 probes, a logic cable and test hooks. PicoScope 2205 MSO is available now at \$615 from Saelig Company, Inc. their USA technical distributor. It comes with a 5-year warranty. For detailed specifications, free technical assistance, or additional information, please contact Saelig 1-888-7SAELIG, via email: [info@saelig.com](mailto:info@saelig.com) [1], or visit [www.saelig.com](http://www.saelig.com) [2].

Posted by Sean Fenske, Editor-in-Chief, MDT

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