

From sigrok

The **sigrok** project aims at creating a **portable, cross-platform, Free/Libre/Open-Source signal analysis software suite** that supports various device types (e.g. logic analyzers, oscilloscopes, and many more).

It is licensed under the terms of the **GNU GPL, version 3 or later**. Design goals and features include:

- **Broad hardware support.** Supports many different devices (logic analyzers, oscilloscopes, multimeters, data loggers etc.) from various vendors.
- **Cross-platform.** Works on Linux, Mac OS X, Windows, FreeBSD, OpenBSD, NetBSD, Android (and on x86, ARM, Sparc, PowerPC, ...).
- **Scriptable protocol decoding.** Extendable with stackable protocol decoders written in Python 3.
- **File format support.** Supports various input/output file formats (binary, ASCII, hex, CSV, gnuplot, VCD (http://en.wikipedia.org/wiki/Value_change_dump), WAV, ...).
- **Reusable libraries.** Consists of the libsigrok and libsigrokdecode shared libraries which can be used by various frontends/GUIs.
- **Various frontends.** PulseView (LA/DSO/MSO GUI), SmuView (DMM/PSU/load GUI) and sigrok-meter (DMM GUI), sigrok-cli (command-line), and other frontends all build upon the above libraries.

You can use sigrok to...

- ...log data from your multimeter
- ...have a \$10 logic analyzer for examining logic circuits
- ...have a remote GUI for your oscilloscope
- ...perform measurements on signals
- ...make sense of digital signals with protocol decoders
- ...write custom protocol decoders in python
- ...remote-control your power supply
- ...remote-control whatever lab device you'd like to support
- ...write a quick-n-dirty automation tool for your particular needs
- ...have a framework/frontend for your home-made devices



NEWS ([HTTPS://SIGROK.ORG/BLOG](https://sigrok.org/blog))

- **2021-03-01:** sigrok-cli 0.7.2 released! (<https://www.sigrok.org/blog/sigrok-cli-072-released>)
- **2020-07-10:** New in PV: Tabular Decoder Output View (<https://www.sigrok.org/blog/new-pv-tabular-decoder-output-view>)
- **2020-07-10:** New protocol decoder: xy2-100 (<https://www.sigrok.org/blog/new-protocol-decoder-xy2-100>)

See also: Current events.



SUPPORTED HARDWARE (Browse by category...)

Logic analyzers · Mixed-signal devices · Oscilloscopes · Multimeters · LCR meters · Sound level meters · Thermometers · Hygrometers · Anemometers · Light meters · Energy meters · DAQs · Dataloggers · Tachometers · Scales · Digital loads · Function generators · Frequency counters · RF receivers · Spectrum analyzers · Power supplies · GPIB interfaces

See also: Device comparisons, Device cables, Multimeter ICs, Connection parameters



DOWNLOADS AND DOCUMENTATION

Downloads · Building · Linux · Mac OS X · Windows · FreeBSD · OpenBSD · NetBSD · Android · Embedded · Getting started · Input output formats · Protocol decoders · Probe comparison · GPIB · Logo · Press



SUBPROJECTS

libserialport · libsigrok · libsigrokdecode · sigrok-cli · PulseView · sigrok-meter · SmuView · fx2lafw · gpibgrok · fx2grok · fpgalafw · Firmware · Example dumps



GETTING IN TOUCH

IRC: #sigrok@freenode (<http://webchat.freenode.net/?channels=%23sigrok&uio=MT1mYWxzZQ9a>) · Mailing list: sigrok-devel (<https://lists.sourceforge.net/lists/listinfo/sigrok-devel>) (archives: MA (<https://www.mail-archive.com/sigrok-devel@lists.sourceforge.net/>), SF (<https://sourceforge.net/p/sigrok/mailman/sigrok-devel/>), Gmane (<http://news.gmane.org/gmane.comp.debugging.sigrok.devel>)) · Twitter: @sigrokproject (<https://twitter.com/sigrokproject>) · Mastodon/Fediverse (<https://en.wikipedia.org/wiki/Fediverse>): @sigrok@fosstodon.org (<https://fosstodon.org/@sigrok>)



DEVELOPMENT

Developers · Roadmap · API docs (<https://sigrok.org/api/index.html>) (sp (<https://sigrok.org/api/libserialport/unstable/index.html>) · sr (<https://sigrok.org/api/libsigrok/unstable/index.html>) /cxx (<https://sigrok.org/api/libsigrok/unstable/bindings/cxx/index.html>) /py (<https://sigrok.org/api/libsigrok/unstable/bindings/python/index.html>) /java (<https://sigrok.org/api/libsigrok/unstable/bindings/java/index.html>) · srd (<https://sigrok.org/api/libsigrokdecode/unstable/index.html>)) · Browse source code (<https://sigrok.org/gitweb/>) (GitHub mirror (<https://github.com/sigrokproject>)) · Bug tracker (<https://sigrok.org/bugzilla/>) · Jenkins (<https://sigrok.org/jenkins/>) · Summer of Code · Protocol decoder HOWTO · Protocol decoder API · Formats and structures · Hardware driver API · Portability · TODO

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