# JOULESCOPE

# SIMPLIFYING
# LOW-POWER DESIGN

## MEASURE

View instantaneous values,
like a multimeter.

+98.1647 nA
+996.608 mV
+94.1926 nW
- 1.44104 kC
- 1.43468 kJ

## KEY FEATURES

**Amazing Dynamic Range**
**Low Voltage Drop**
**Makes the Invisible Visible**
**Easy to Use**
**Customizable**
**Affordable**
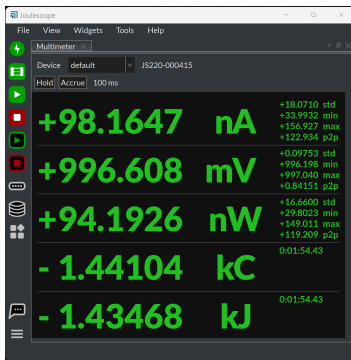
## OVER TIME

Plot signals over time,
like an oscilloscope.

JS220
Precision Energy Analyzer
www.joulescope.com

Develop products with longer battery life and no surprises.
Simultaneously measure current, voltage, power, energy and charge.

## All on your computer.

www.joulescope.com

## Amazing Dynamic Range
Measure current from nanoamps to ±10 amps with seamless Enwavify™ autoranging.

## Low Voltage Drop
Keep your target device running correctly with low 20 mV burden voltage.

## Makes the Invisible Visible
See sleep modes, active modes, ISRs and inrush currents. Eliminate final product testing surprises.

## Easy to Use
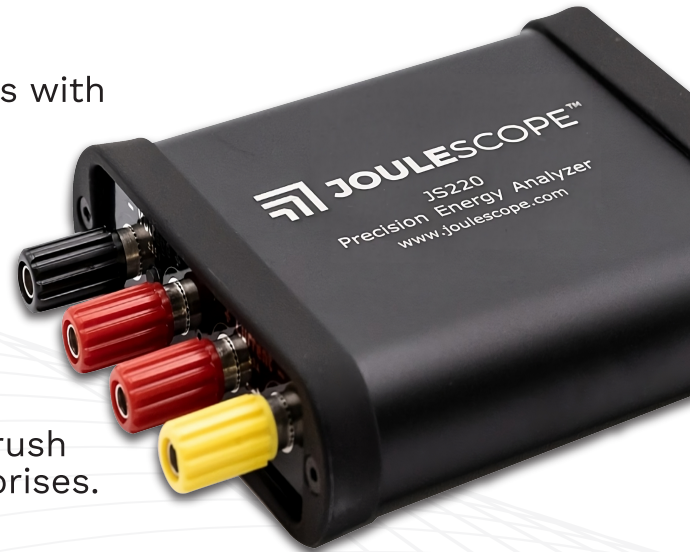Explore real-time waveforms with a click of the mouse using the intuitive user interface.

## Customizable
Automate with Python. Swap front panels.

## Affordable
Buy one for every developer. $999 USD MSRP.
No subscriptions needed.

## KEY SPECIFICATIONS

- ±10 A current range (±3 A sustained)
- 0.5 nA resolution, 34-bit dynamic range
- ±15 V voltage range
- 300 kHz bandwidth
- Simultaneous 16-bit ADCs, 2 Msps
- Enwavify™ 1 μs seamless autoranging, no gaps
- Electrically isolated
- Unlimited data capture duration
- Works with Windows®, macOS® and Linux®

## APPLICATIONS

- Design power-efficient hardware and software
- **Profile** and improve **microcontroller firmware**
- Troubleshoot firmware
- Test voltage regulator efficiency
- Select and **optimize batteries**
- Measure inrush currents
- Measure component leakages
- Validate units during manufacturing
- Perform USB inrush and suspend testing
- Measure current and voltage

## LEARN MORE
www.joulescope.com

**JOULE**SCOPE