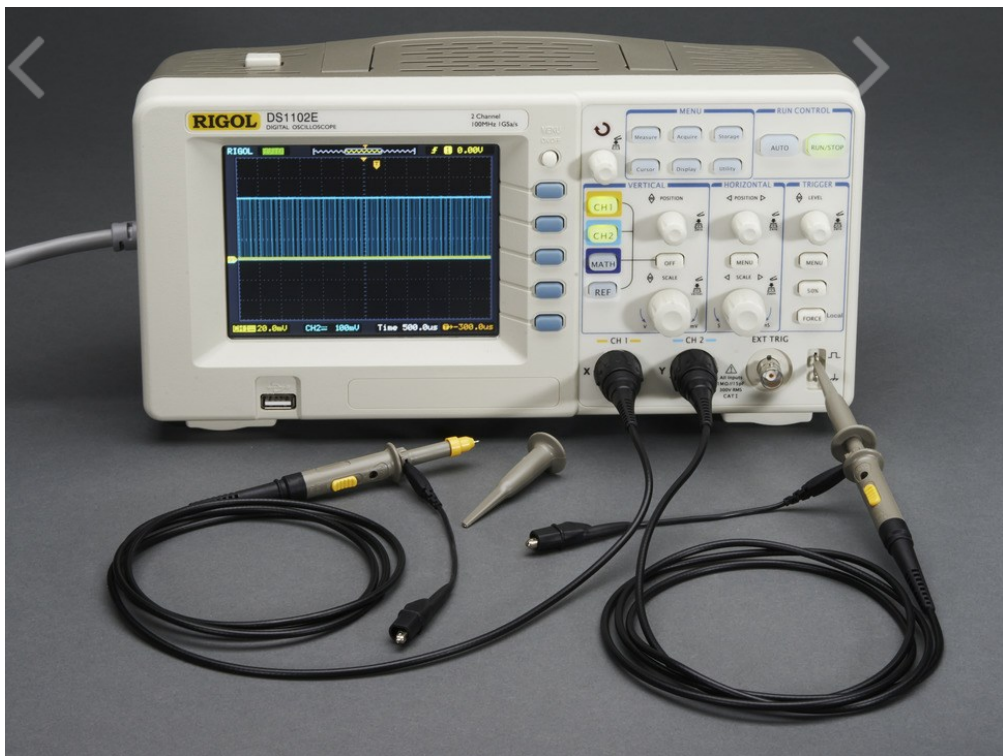




TOOLS / TEST EQUIPMENT / OSCILLOSCOPES / 1 GS/S 100MHZ DIGITAL STORAGE OSCILLOSCOPE + EXTRAS - DS1102E



1 GS/s 100MHz Digital Storage Oscilloscope + Extras - DS1102E - DS1102E

PRODUCT ID: 1987

DISCONTINUED

[DESCRIPTION](#)

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DESCRIPTION

The ultimate debugging tool for electronics, this oscilloscope will turn you into a "Circuit Whisperer". You will be able to peer into the workings of your circuits to better understand them. Difficult problems will suddenly become trivial. We tried many beginner oscilloscopes and found this one to be a perfect balance of price and function: it's perfect as a 'first scope' or as a hacker-space resource to share. [To learn about how to use oscilloscopes, we suggest reading Tektronix's great "XYZs of Oscilloscopes" and the other great Tek documents that cover everything you need to know!](#)

This is the 100 Mhz version, for when you need to examine signals with higher-than-50MHz component frequencies. [We also carry a 50 MHz version!](#)

Bonus extras! we include an [awesome sew/iron-on embroidered "Oscilloscope Skill Badge"](#) and [vinyl sticker!](#)

- **1 Giga-sample per second Analog/Digital Converter** - 1000 MSa/s real-time sample rate for one channel or 500 MS/s for two channels gives you the most detail even at high frequency signals
- 100 MHz software bandwidth (you can view up to 100 MHz digital/analog signals)
- 5.7" Full color LCD display
- Digital storage with 16 Kpoints memory depth, 1Mpoints for long memory
- Trigger via Edge, Pulse Width, Video, Slope, Alternate, Pattern and Duration
- 20 types of wave parameter measurements built in: Vmax, Vmin, Vpp, Vtop, Vbase, Vamplitude, Vaverage, Vrms, Overshoot, Preshoot, Period, Freq, Rise time, Fall time, + Width, - Width, + Duty, - Duty, Delay falling, Delay Rising, Phase falling, Phase Rising
- Auto trigger/display is great for beginners
- Math and FFT functions
- Comes with two 150MHz probes with color tabs and adjustment tool
- Plug in a USB key and save waveforms as a CSV or bitmap. Also lets you save your setup in case you have a testing jig you want to recreate
- Isolated Pass/Fail output BNC
- External trigger in
- RS-232 and USB B connector for remote control via a computer using NI VISA, LabVIEW, Visual Basic or Visual C
- Ultrascope software for PC control
- Powers via a standard computer power cable, 100-240VAC
- Lightweight, 2.5 kg makes it easy to carry around wherever you need it!

Comes with:

- 2 x 150MHz 10x/1x probes
- USB Cable
- **Bonus! Oscilloscope vinyl sticker**
- [Datasheets, manuals, and software can be found on Rigol's website](#)



TECHNICAL DETAILS

[DS1102E User Manual](#)

[Data sheet for the DS1000E series](#)

- Bandwidth / Analog Bandwidth / Single-shot Bandwidth: 100MHz
- Vertical Resolution: 8 bits
- Analog Channels: 2
- Vertical Sensitivity: 2 mV/div - 10V/div
- Real-Time Sample Rate: 1GSa/s (single channel), 500MSa/s (dual channel)
- Equivalent Sample Rate: 25GSa/s (repetative signals)
- Scanning Speed Range (seconds/div): 2ns/div - 50s/div

To learn about how to use oscilloscopes, we suggest reading [Tektronix's great "XYZs of Oscilloscopes"](#) and the other great Tek documents that cover everything you need to know!

For product support, replacement parts and warranty for all Rigol products, [click here!](#)



LEARN



[Circuit Playground: F is for Frequency](#)

Learn about frequency from a talking oscilloscope!

MAY WE ALSO SUGGEST...



1 GS/s 50MHz Digital



DSO Nano v3 - Pocket-size



Oscilloscope - Sticker!



Oscilloscope Probe



1 GS/s 50 MHz 4-channel



Saleae Logic Pro 16 - 16



Saleae Logic 8 - 8 Channels

4.6 ★★★★★
Google
Customer Reviews