



This digital storage oscilloscope is commonly used for the maintenance of electronic equipment and laboratory work, and is suitable for field use in sciences, medicine, engineering and telecommunications.

This digital storage oscilloscope integrates a digital oscilloscope, a logic analyzer, a FFT spectrum analyzer, an electronic counter and a clock jitter analyzer into one device. The module efficiently solves complicated trigger problems by providing a comprehensive set of triggers such as rising or falling edge, pulse width, delayed and count.



Key Features

- ✓ 5-in-1 design: digital oscilloscope, logic analyzer, FFT spectrum analyzer, electronics counter, clock jitter analyzer
- ✓ Up to 1 GS/s single shot sampling rate.
- ✓ Up to 20 GS/s repeat sampling rate.
- ✓ 170 MHz bandwidth
- ✓ Universal Triggering with 512 trigger levels:
- ✓ Several types of triggering: I²C, SPI, UART, cross trigger, pre-triggering, pulse width, TV (NTSC525, PAL625) triggering and count
- ✓ 8 channel logic analyzer crossing trigger to analog channel, vice versa
- ✓ Deep 4 M/8 M sample data acquisition buffers on each channel (A1, A2, A3, A4, D0 to D7)
- ✓ Precision 125 MHz frequency counter, up to 7 digital resolution at 1 M memory for each analog channel
- ✓ Fast Fourier Transformations (FFT) function for Bandwidth testing
- ✓ Convenient timing state display for logic debug
- ✓ X-Y Plot
- ✓ Multi-Window software
- ✓ DLL Libraries (optional)

Technical Specifications

Analog Channel	4 Ch (Ch.A1, Ch.A2, Ch.A3, Ch.A4)
Digital Channel	8 Ch (D0 to D7) from Logic Analyzer Pod (Sampling Rate 250 MHz, 512 K Bytes Memory)
Input Bandwidth	DSO (Ch.A1, Ch.A3 125 MHz, Ch.A2, Ch.A4.60 MHz), Logic Analyzer (D0 to D7 50 MHz)
Trigger Levels	Universal 512 levels (A0120004) (Parallel, Serial, Pulse width, I ² C, SPI, TV Horizontal Synchronous)
Repetitive Mode	Up to 20 GHz
FFT Spectrum Analyzer	125 MHz (Fast Fourier Transform)
Electronic Counter	Max. 7 digital Resolution
X-Y Plot	Allow to graph one channel to another
Mathematics	+, -.
Multi-Window	Yes.
Memory	2 Ch 1 Mega Bytes (Scope), 4 Ch 512 k Bytes (Scope) 8 Ch 512 k Bytes (Logic Analyzer)
Input Impedance	1 MΩ/15 pf (DSO), 200 kΩ/4 p (Logic Analyzer)
Sensitivity	10 mV/div to 4 V/div
Sampling Rate	2 Ch: 1 Hz to 500 MHz, 4 Ch: 1 Hz to 250 MHz
Threshold Voltage	-1.8 V to 4.5 V
External Clock	0 MHz to 100 MHz 200 kΩ/4 pf, +/- 50 V max
Power Supply	DC Adapter 5.4 V/2.4 A
Net Weight	1.8 kg
Dimension	220 mm × 142 mm × 40 mm (Aluminum Case)



GAO Tek Inc.

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Product Overview

Digital Storage Oscilloscope
GAO A0120005



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