150MHz/100MHz/60MHz DIGITAL STORAGE OSCILLOSCOPE



GDS-1000A Series is a general purpose 2channel oscilloscope and originally designed to meet educational and industrial requirements without specializing in DSO features. This series provides three selective bandwidths of 60MHz, 100MHz and 150MHz together with innovative human machine interface design plus an TFT color LCD display, users will enjoy better measurement experience!

GDS-1000A series offers dual sampling mode, giving users two options for 1GSa/s Real-Time sampling or 25GSa/s high-speed Equivalent sampling rate. What's more, with high-speed wave handling capability, more advanced triggering functions, and 2.5 kg light-weight design, it is a powerful functional oscilloscope with the best price than ever. Ultimately, GDS-1000A series is considered for the replacement of analog oscilloscope and further promoted as a personal DSO affordable to any situation such as each student in educational labs, service technicians, or industrial field needing big quantity.

Besides, the requirement of measuring data exchange and analysis is intergraded into the GDS-1000A series. The convenient PC standard interface is also available, such as USB interface and SD card socket. This two build-in standard interface capability enable the performance of remote control or data transferring to a desktop/laptop for documenting purpose and enhance your work efficiency.

Easy to use

Several acquisition mode and 27 auto measurement functions help user to measure the accurate property of waveforms. The advanced auto-set function makes GDS-1000A Series catch waveform automatically and display waveform quickly. With arithmetic functions, FFT function keeps user being aware of the results by updating value immediately. Without almost extracalculation GDS-1000A series can provide sufficient information of testing.

SD Card & USB Device supported

A total of 15 waveforms could be saved into the internal memory for later recall and display, and 2 saved reference waveforms plus 2 live waveforms could be shown on the screen at the same time for comparison. SD card mass storage and USB device port are supported, providing storage/transfer of measurement data and remote control for diversified solutions.

GDS-1000A Series

FEATURES

- 150/100/60 MHz Bandwidths
- Sample Rates up to 1 GSa/s Real-Time Maximum, 25Gsa/s Equivalent-Time
- 2M Points Record Length Maximum
- 2mV~10V Vertical Scale
- 1ns~50s Horizontal Range
- TFT LCD Display Panel
- Up to 27 Automatic Measurements
- Up to 10ns Peak Detection for Glitch Capture
- Advanced Video, Pulse Width Trigger
- Cursor Tracking
- Versatile Math Functions + ,- , X , FFT , FFTrms
- SD Card Supported
- On-Line Help and Multi-Language Operating Supported

GDB-02 Oscilloscope Education and Training Kit



APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging



GDS-1000A Series www.valuetronics.com

		GDS-1062A	GDS-1102A	GDS-1152A
VERTICAL	Channels	2	2	2
	Bandwidth	DC~60MHz(-3dB)	DC~100MHz(-3dB)	DC~150MHz(-3dB)
	Rise Time Sensitivity	<5.8ns Approx. 2mV/div ~ 10V/div (1-2-5 increment	<3.5ns Approx.	<2.3ns Approx.
	Accuracy	$\frac{1}{2} (3\% \text{ x} \text{Readout} + 0.1 \text{ div} + 1\text{mV})$		
	Input Coupling	AC, DC & Ground		
	Input Impedance Polarity	1M Ω± 2%, ~15pF Normal & Invert		
	Maximum Input	300V (DC+AC peak), CATII		
	Waveform Signal Process	+, -, X, FFT, FFTrms		
	Offset Range Bandwidth Limit	2mV/div ~ 50mV/div : ±0.4V ; 10mV/div ~ 500mV/div : ±4V ; 1V/div ~ 10V/div : ±40V 20MHz (- 3dB)		
TRIGGER	Sources	CH1, CH2, Line, EXT		
TRIOGER	Modes	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width		
	Coupling Sensitivity	AC , DC , LF rej. , HF rej. , Noise rej. DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 60/100/150MHz: Approx. 1.5div or 15mV		
EXT TRIGGER	Range	±15V	\sim , 25 with 2 ~ 00/100/150 with 2. Appro	
	Sensitivity	DC ~ 25MHz : ~ 50mV ; 25M ~ 60/100/150MHz : ~100mV		
	Input Impedance Maximum Input	1M Ω ±2% , ~ 15pF 300V (DC+AC peak) , CATII		
HORIZONTAL	Range	Ins/div ~ 50s/div (1-2-5 increments); ROLL : 250ms/div ~ 50s/div		
	Modes	MAÍN, WINDÓW, WINDOW ZOOM, ROLL, X-Y		
	Accuracy Pre-Trigger	±0.01% 10 div maximum		
	Post-Trigger	1000 div		
X-Y MODE	X-Axis Input	Channel 1		
	Y-Axis Input Phase Shift	Channel 2 ±3°at 100kHz		
SIGNAL ACQUISITION	Real-Time Sample Rate	25GSa/s maximum		
	Equivalent Sample Rate			
	Vertical Resolution Record Length	8 Bits 2M Points maximum		
	Acquisition Mode	Normal, Peak Detect, Average		
	Peak Detection Average	10ns(500ns/div ~ 50s/div) 2 , 4 , 8 , 16 , 32 , 64 , 128 , 256		
CURSORS AND MEASUREMENT	Voltage Measurement		_{nax} , V _{min} , Rise Preshoot/Overshoot,	, Fall Preshoot/Overshoot
	Time Measurement	Freq , Period , Rise Time , Fall Time , Positive Width , Negative Width , Duty Cycle		
	Delay Measurement Cursors Measurement	Eight different delay measurement Voltage difference between cursors	(Δ V) Time difference between curso	ors (∆T)
	Auto Counter	Resolution : 6 digits	· · ·	()
		Accuracy : ±2% Signal Source: All available trigger s	ource except the Video trigger mode	
ADJUSTABLE PROBE	Frequency Range	1kHz ~ 100kHz, 1kHz/STEP		
COMPENSATION SIGNAL	Duty Cycle Range	5% ~ 95%, 5%/STEP	1	
CONTROL PANEL FUNCTION	Autoset Save Setup	Adjust Vertical VOLT/DIV, Horizont Up to 15 sets of measurement cond	al TIME/DIV, and Trigger level auton litions	natically
	Save Waveform	15 sets of waveform		
DISPLAY	TFT LCD Type Display Resolution	5.6 inch 234 (Vertically) x 320 (Horizontally)	Dots	
	Display Resolution Display Graticule	8 x 10 divisions	Dors	
	Display Brightness	Adjustable		
INTERFACE	USB Device SD Card Slot	USB1.1 & 2.0 full speed compatible (printers and flash disk not supported) Image (BMP) waveform data (CSV) and setup (SET)		
POWER SOURCE	Line Voltage Range	AC 100V \sim 240V, 48Hz \sim 63Hz, Auto selection		
MISCELLANEOUS	Multi-Language Menu	Available		
	Online Help	Available		
DIMENSIONS & WEIGHT	310(W) × 142 (H) × 140			

ORDERING INFORMATION

 GDS-1062A
 60MHz, 2 channel, 1GSa/s & 2M Memory DSO

 GDS-1102A
 100MHz, 2 channel, 1GSa/s & 2M Memory DSO

 GDS-1152A
 150MHz, 2 channel, 1GSa/s & 2M Memory DSO

ACCESSORIES

User manual x1, Power cord x1 Probe GTP-060A-4 or equivalent : 60MHz (10:1/ 1:1) Switchable passive probe for GDS-1062A (one per channel) Probe GTP-100A-4 or equivalent : 100MHz (10:1/ 1:1) Switchable passive probe for GDS-1102A (one per channel) Probe GTP-150A-2 or equivalent : 150MHz (10:1/ 1:1) Switchable passive probe for GDS-1152A (one per channel)

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