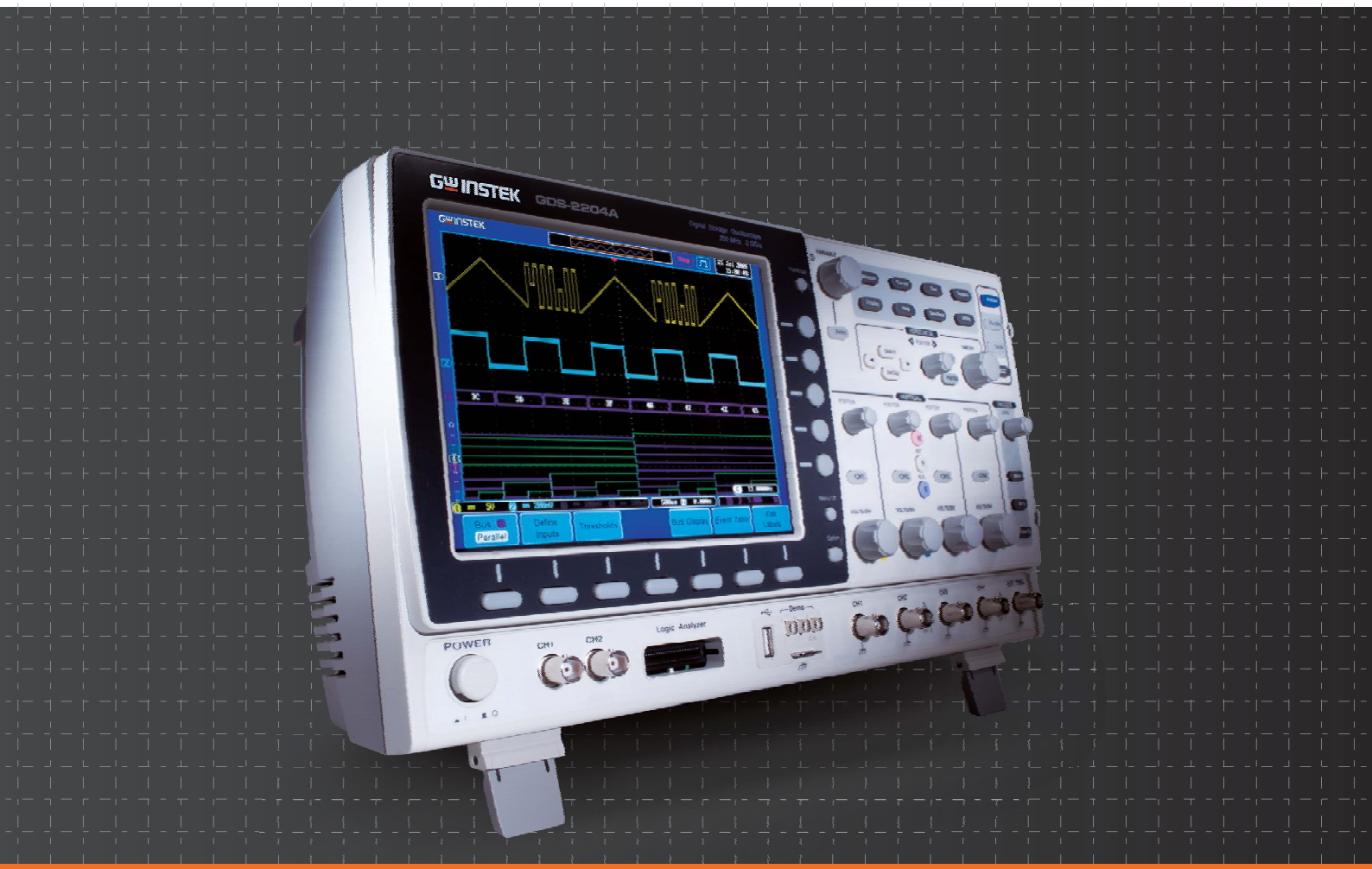


GDS-2000A Series

VPO
Visual Persistence Oscilloscope

300/200/100/70MHz Digital Storage Oscilloscope

3 Year WARRANTY

FEATURES

- 300/200/100/70MHz Bandwidth, 2 or 4 Input Channels
- 2GSa/s Maximum Real-Time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- 2M points Maximum Record length
- VPO Technology to Display Less-Frequently-Occurred Signals
- Fast Update Rate of 80,000 Waveform Per Second
- Segmented Memory Acquisition and Waveform Search Function
- Standard Model Provides I^2C, UART, SPI CAN and LIN Serial Bus Trigger and Analysis Functionality
- Optional 8 or 16 Additional Digital Channels with Logic Analyzer (MSO)
- Upgradable DVM, H-Expansion, Data Log and Advanced Logic Functionality
- Optional 5MHz Function Generator
- Flexible Remote Control Connectivity (Standard:USB;Optional:LAN/GPIB)

GW INSTEK
Simply Reliable

Every Acquisition is Key to Success

2GSa/s Real-time Sampling Rate and up to 300MHz Bandwidth

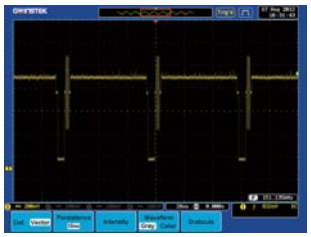
The GDS-2000A Series Digital Storage Oscilloscope offers 2 and 4-channel configurations and wide bandwidth selections, including 300MHz, 200MHz, 100MHz and 70MHz. Each model provides 2GSa/s maximum real-time sampling rate and 100GSa/s high-speed equivalent-time sampling rate. Equipped with an 8-inch 800 x 600 high-resolution TFT LCD display, 1mV/div to 10V/div vertical range and 1ns/div to 100s/div time base, the GDS-2000A Series is able to faithfully demonstrate waveforms of complicated and obscure signals.

2Mega Point Record Length, Waveform Search and Segmented Memory Functions

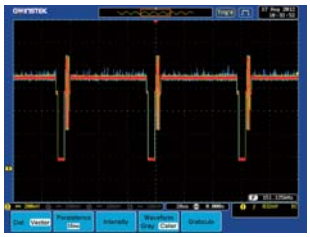
The GDS-2000A Series provides 2Mega point record length, and Waveform Search and Segmented Memory functions as standard features. The events of interest can be captured and saved into the Segmented Memory, which can be divided into 2048 sections, for observation, while the irrelevant waveforms can be ignored. Consequently, the overall efficiency of memory usage can be enhanced. Under Waveform Search mode, after the input signal is triggered, the GDS-2000A Series is able to Search and Mark the waveform sections, which comply with user-defined search condition and threshold level within the whole memory. Meanwhile, with Zoom window and Play/Pause button to browse through whole displayed waveform, the user can rapidly navigate all the waveforms in an efficient way.

80,000 wfm/s Waveform Update Rate and VPO Technique

The waveform update rate of 80,000wfm/s enables users to accurately acquire and examine inrush signals and elusive glitches without missing any detail. Attributed to the advanced signal processing technique, VPO (Visual Persistence Oscilloscope), the grayscale display of waveforms shown on GDS-2000A distinguishes the signals from one another according to their occurrence frequencies respectively.



Gray Mode



Color Mode

Upgrade to Mixed Signal Oscilloscope (MSO)

The GDS-2000A Series provides the flexibility of easy conversion from a DSO into a MSO (Mixed Signal Oscilloscope) under a plug-and-play concept. As two plug-in compartments are available at the rear panel to accommodate various plug-in modules, the GDS-2000A Series DSO with an 8 or 16 digital channels module performs MSO functions perfectly at the user's installation of the module. The analysis and decoding functions of parallel bus and serial bus such as I^2C, SPI, and UART are supported after the module is installed. GDS-2000A is regarded as an effective tool in signal analysis, trouble diagnosis and defect debug.

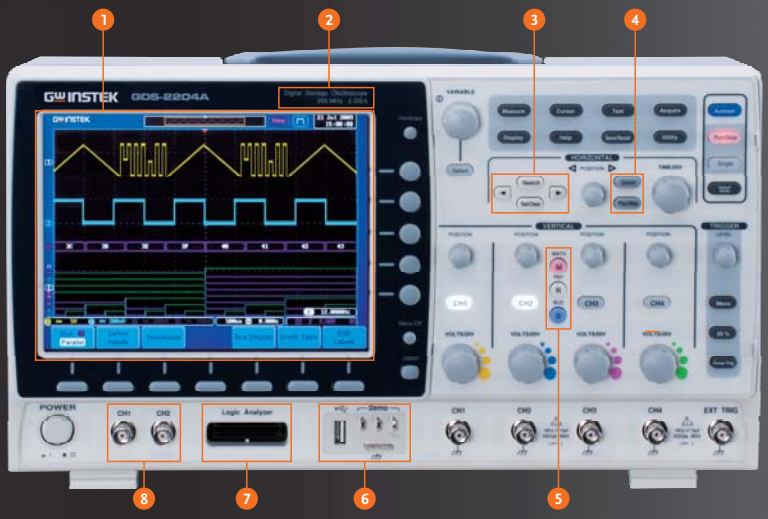
Function Generator Option

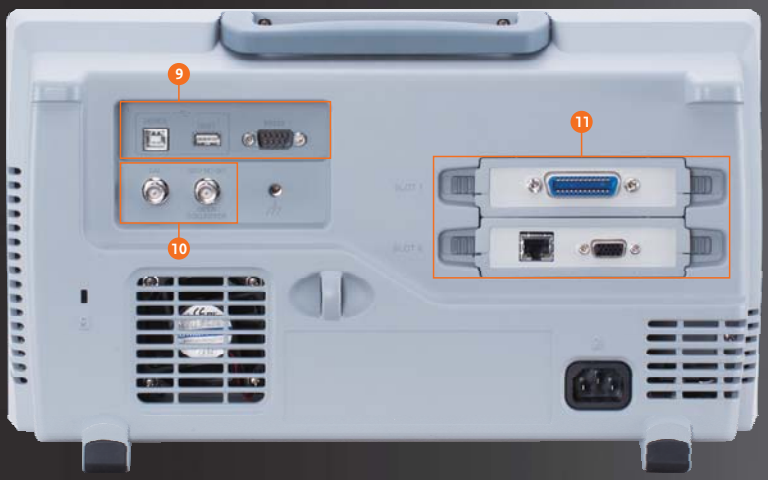
The plug-in module of DDS (Direct Digital Synthesis) based function generator is provided as an option of the GDS-2000A Series. The function generator, with 5MHz bandwidth, is able to generate Sine, Triangle and Square waveforms, with variable duty cycle of the square waveform. Two 5MHz function generators can be used at the same time to provide dual output signals. With the stimulus source, the verification of electrical characteristics and functionality of the DUT (Device Under Test) can be done in one DSO.

Design for Plugged-in Options

Besides Logic Analyzer and Function Generator modules, the GDS-2000A series also provides optional LAN/SVGA Interfaces module and GPIB interface module for user's selection. The Modularized Structure offers a dramatic elasticity allowing user to upgrade the DSO with field-installable options after the purchase of the main body. Two modules can be used simultaneously as the maximum capacity of the GDS-2000A options, which include (1) 8-Channel Logic Analyzer (2) 16-Channel Logic Analyzer, (3) 5MHz DDS Function Generator (4) LAN/SVGA Interfaces Module, (5) GPIB Interface Module.

PANEL INTRODUCTION





CE | USB Full Speed | PC Software | Labview Driver
RS-232 | GPIB | Ethernet | PictBridge Compatible

1. 8 inch TFT LCD Display
2. 2GSa/s Real-time Sampling Rate
3. Waveform Search Function
4. Zoom and Play/Pause
5. Math Computing, Waveform Reference and Serial Bus Function
6. Three Demonstration Output
7. Digital Channel Input Terminals
8. DDS Function Generator Output
9. Standard Interface : USB, RS-232C
10. CAL and Go/NoGo Output
11. Option Module : LAN/SVGA, GPIB, Function Generator, Logic Analyzer

4 Channel Model

2 Channel Model

SELECTION GUIDE

Model	GDS-2304A	GDS-2302A	GDS-2204A	GDS-2202A	GDS-2104A	GDS-2102A	GDS-2074A	GDS-2072A
Bandwidth	300MHz	300MHz	200MHz	200MHz	100MHz	100MHz	70MHz	70MHz
Channels	4	2	4	2	4	2	4	2
⁎ Record Length	2M	2M	2M	2M	2M	2M	2M	2M
⁎ Real-time Sampling	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s
Waveform Update Rate	80,000wfms/s	80,000wfms/s	80,000wfms/s	80,000wfms/s	80,000wfms/s	80,000wfms/s	80,000wfms/s	80,000wfms/s

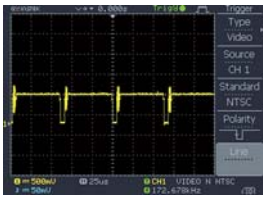
⁎ 1M point record length and 1GSa/s real-time sampling rate per channel for full channel operation.

A. GENERAL DESCRIPTION

With modern design concepts and up-to-date component technologies, the GDS-2000A Series DSO possesses a number of outstanding features, such as segmented memory, waveform search function, modularized logic analyzer and Function Generator. The aim of GDS-2000A design is to fit the requirements in embedded system development field and general application industries. As the GDS-2000A Series is a full-fledged DSO carrying a complete set of features, it is also a very useful tool to cover a broad range of educational applications related to signal analysis, trouble diagnosis and defect debugging in the electronic and electric fields.

*** 80,000 wfms/s Update Rate**

80,000 wfms/s



500 wfms/s

The waveform update rate of 80,000 wfms/s enables users to dynamically examine the jittery signal and elusive glitches without missing any detail. The concept is similar to the movie player. The faster movie player, which can bring more film images to the screen in a certain time interval, displays better visual effect than the slower ones. This is especially true when it comes to the replay of fast moving article.

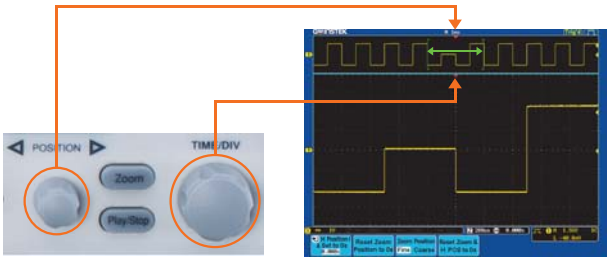
*** VPO**

Attributed to the advanced signal processing technique, VPO, the grayscale display of waveforms shown on GDS-2000A Series distinguishes the signals from one another according to their occurrence frequencies respectively. Based on the same statistics technology used for grayscale display, the color mode can be selected to differentiate the occurrence frequencies among various waveforms on the screen.

*** 2Mega Point Record Length**

With the collaboration of 2Mega point record length, the 2GSa/s sampling rate can bring the waveform acquisition into full play. During a certain period, sufficient record length is necessary for the input signal to be acquired under a high sampling rate. The long memory gives the benefit of mass data acquisition, however, also brings up a challenge on how to quickly find the waveform sections or events of interest within the whole memory length.

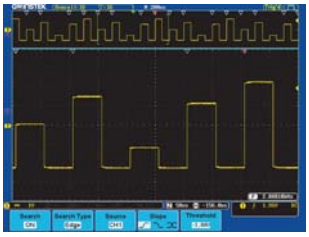
B. ZOOM WINDOW



Zoom Window

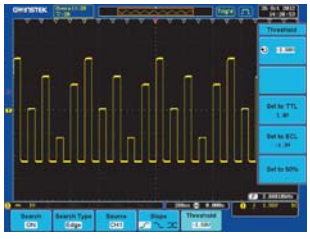
The GDS-2000A Series is equipped with Zoom Window feature which enables users to display the detailed zoomed waveform located by the Zoom Window. Under Zoom mode, the entire inbound waveforms and Zoom range cursors are displayed in the upper window, and the waveform details in the bottom window. Users can tune the zoomed range by adjusting Time/Div selection, and pan the window by rotating the scrolling knob position.

C. PLAY / PAUSE



The Play/Pause button (▶ / II) on the front panel can be controlled to automatically browse the entire inbound waveforms by moving the Zoom window across the display, which enables user to further investigate the events of interest. The browse speed and the rolling direction of the zoomed screen can be adjusted based on users' requirements. The rolling screen can be paused by pressing “pause” button. Collaborating with search markers, the Play/Pause function substantially facilitates the time-consuming task to locate and examine the events of interest at different spots within the whole memory.

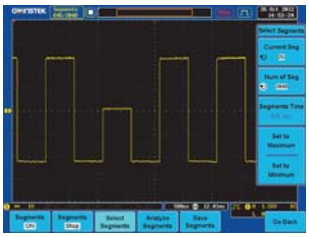
D. WAVEFORM SEARCH AND MARKERS

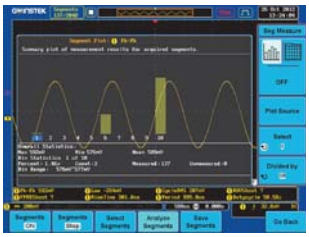


2Mega point record length means that actually there are over thousands of waveform data points being processed and displayed in all times. Impact on engineers is how they can access the events of interest efficiently amongst the huge amount of data. the GDS-2000A Series offers the Search functions to accelerate the navigation over the whole waveform data so that the engineers can locate the events of interests with efficiency. The searching conditions of waveform are set by selecting Search Type and specifying the Threshold settings. All the complying waveforms will be marked and the total amount of events will be counted and displayed. User can use the forward or backward arrow key to navigate the events of interest from one to another. Press Set/Clear button to place (or clear) the marker on the waveform.

There are four search types including Edge, Pulse Width, Runt and Rise/Fall Times to be selected. Additional type of Bus can be selected in case that the digital channel is equipped.

E. SEGMENTED MEMORY





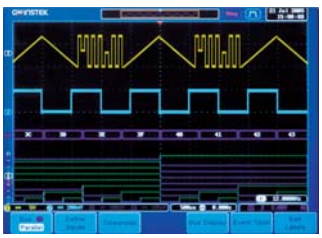
In the system and circuit development, engineers spend most of their time and resource on diagnosis and troubleshooting with DSO. In many cases, only small part of waveform data is of the real concern. Consequently, the efficiency of memory space utilization has been raised- if DSO only processes the concerned waveforms and ignores the irrelevant ones- , which means more data can be processed within the 2Mega memory.

The GDS-2000A Series possesses advantages of Segmented Memory as mentioned above. When being activated, the 2M memory is divided into a number of segments specified by the user. According to the trigger condition, 1k point data will be stored in each segmented memory. The maximum amount of segments is up to 2,048 with 8ns resolution. This is useful for analyzing the serial bus decoding, pulse, jitter glitch, runt, and inrush waveforms.

Repeatedly press the Play/ Pause button (▶ / ll) key can play the segment from the first to the last, as well as pause and replay backwards. Controlling the Variable scrolling knob facilitates the playing speed, therefore, the users can make a swift jump to one particular segment among all. Moreover, Segment Analysis can be used for statistics analysis.

F. MIXED SIGNAL OSCILLOSCOPE (MSO)

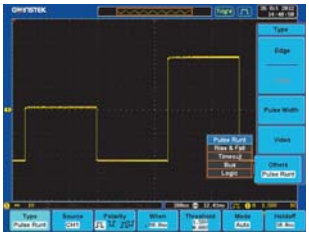
Logic Analyzer Module



With a plug-in 8 or 16 digital channels module, a 12 or 20-channel MSO can be upgraded from DSO by on-site installation. The analysis and decoding functions of parallel bus and serial bus such as I^2C, SPI, and UART will be processed after the module installation.

Besides, it can measure digital and analog signal of embedded circuit design under an appropriate triggering mode. This further analyzes whether the timing sequence is correct or not.

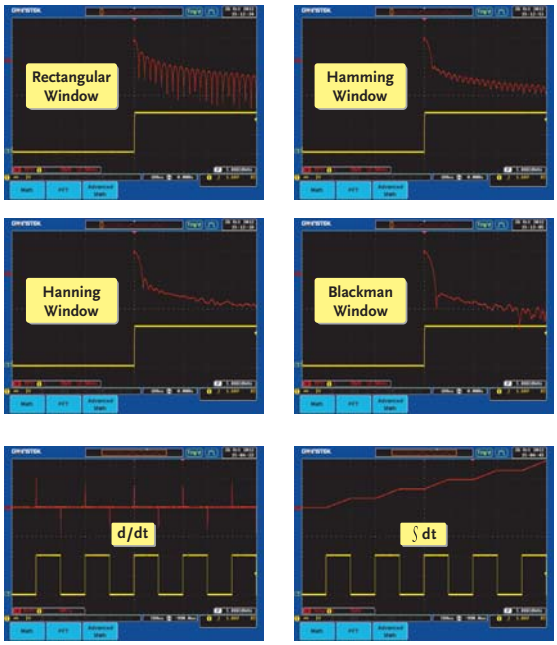
G. COMPLETE TRIGGER FUNCTIONS AND 36 AUTOMATIC MEASUREMENTS



The GDS-2000A Series offers abundant trigger functions. In addition to the Edge, Delay, Pulse Width, Alternate, Single, Rise & Fall Time Trigger, the GDS-2000A Series also provides Video and Runt Trigger. The analysis and decoding functions of parallel bus and serial bus such as I^2C, SPI, and UART are supported after the 8 or 16 digital channels module is installed. Complete Trigger Functions make the GDS-2000A Series a powerful tool in its class for capturing and analyzing any kind of signals.

The GDS-2000A Series offers up to 36 waveform measurements, including voltage/current, time/frequency, and delay measurements. 8 out of 36 measurements can be selected to simultaneously display on one single screen. With statistics mode, users can analyze mean, maximum, minimum, and standard deviation of the captured waveform. With the great amount of the analyzing statistics, users may ensure the integrity of the signal and the abnormal waveforms.

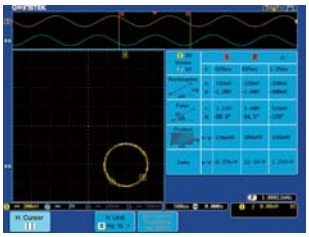
H. FFT AND MATH OPERATION FUNCTIONS



The FFT (Fast Fourier Transform) function of the GDS-2000A Series supports Rectangular, Hamming, Hanning , and Blackman Window Functions. Users can choose one window function based on the input signal type and the specific application. In order to provide the best observation condition, the zoom-in and shift functions for both horizontal and vertical axis are designed to be adjustable. Besides, the vertical unit is selectable among dBuV RMS and Linear RMS as well.

In addition to the general math operations, the advanced math operation like integral, derivative and square root are provided to predict or simulate the behaviors of integrator, differentiator and square root circuit for input signal to fulfill the applications of research and development.

I. X-Y MODE

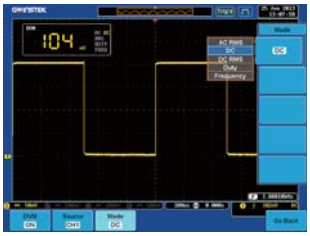


The X-Y mode of GDS-2000A Series defines CH1 and CH3 as the horizontal axis and CH2 and CH4 as the vertical axis, allowing the display of 2 sets of X-Y patterns simultaneously. The measurement items include Rectangular, Polar, Product, and Ratio that fits most of the popular X-Y applications. Dissimilar from traditional oscilloscopes, the GDS-2000A Series can concurrently display input signal and X-Y measurement results on the screen. The applications of X-Y mode include Lissajous figure plot, and IQ constellation diagram.

J. FREE REMOTE CONTROL SOFTWARE

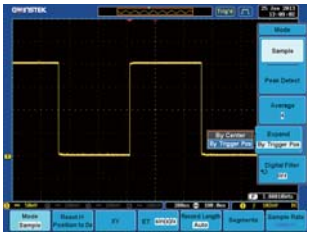
Using a USB port accommodated with FreeWave remote monitoring software is the convenient way to capture data from the GDS-2000A Series. With FreeWave, a screen shot can be saved as an image file (.bmp/.jpg), waveform data (.csv). Not only can FreeWave monitor and record waveforms over a long period of time, but previous recorded waveforms can also be examined. Thus, instrument settings can be configured without the need to learn incomprehensible command line syntax. Free Wave enables the users to reach measurement goals of remote control without tedious procedure.

K. DIGITAL VOLTAGE METER



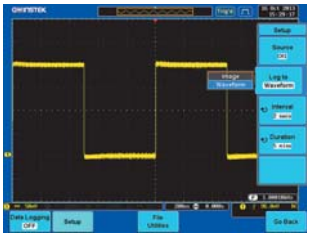
The DVM has functionalities of three digits voltage meter and five digits frequency counter, it allows multi-testing of DC voltage, RMS DC voltage, AC voltage and frequency. Frequently, monitoring voltage and triggering and measuring digital signals concurrently while conducting the diagnosis and debugging of system circuit pose a tremendous challenge to R&D engineers.

L. H-EXPANSION



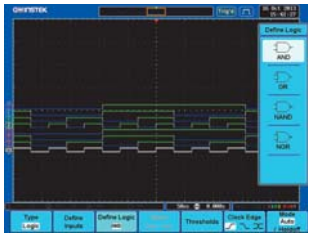
H-Expansion function can help engineers moving trigger point to any position on the screen and expand the fixed point. Users can observe expanded waveforms in great detail without missing the observation of the trigger point.

M. DATA LOG APP



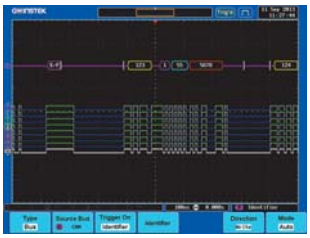
After installing the DataLog software, users can observe waveform variation for a long period of time to ensure products' reliability. DataLog function allows users to set data storage timeframe and interval based upon their test requirements. Data storage can be waveforms or the CSV file for each channel. Data can be stored in USB, GDS-2000A or the remote site computer via LAN.

N. ADVANCED LOGIC APP



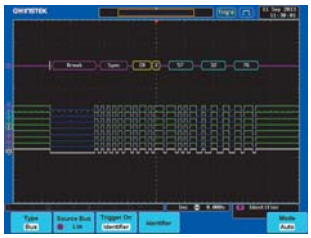
In the logic circuit analysis, “OR”, “AND”, “NOR”, and “NAND” four logic analyses are required and the most fundamental. Users can download and install, free-of-charge, the Advanced Logic software to their GDS-2000A equipped with logic analyzer to enhance the logic trigger and analysis function of digital circuits.

O. CAN/LIN BUS TRIGGER AND ANALYSIS



CAN Bus Trigger and Decoding Function

CAN Bus and LIN Bus are the most popular standard bus protocol for automobile electronics. Users can download for free the CAN/LIN Bus trigger and analysis software from the GW Instek website to elevate the software analysis capability of GDS-2000A logic analyzer. CAN bus



LIN Bus Trigger and Decoding Function

transmission is often used in the electronic signal transmission for security systems. LIN bus is often seen in the control and operation for peripheral electronics equipment. Users can greatly increase the R&D efficiency of automobile electronics via the software installation.

P. VARIOUS INTERFACES SUPPORT

Two standard USB interfaces located at both front panel and rear panel are used for easy access of stored data. USB device port at the rear panel is available for remote control or a hardcopy print-out through a PictBridge compatible printer. SVGA/LAN interfaces module (option),

and GPIB interface module (option) are provided for ATE applications. SVGA video output (on the same card with LAN) allows the screen image being transferred to external projector or large display screens.

SPECIFICATIONS

		GDS-2072A	GDS-2074A	GDS-2102A	GDS-2104A	GDS-2202A	GDS-2204A	GDS-2302A	GDS-2304A
VERTICAL SENSITIVITY	**Channels**	2Ch+EXT	4Ch+EXT	2Ch+EXT	4Ch+EXT	2Ch+EXT	4Ch+EXT	2Ch+EXT	4Ch+EXT
	Bandwidth **Calculated Rise Time** **Bandwidth Limit**	DC~70MHz(-3dB) 5ns 20MHz		DC~100MHz(-3dB) 3.5ns 20MHz		DC~200MHz(-3dB) 1.75ns 20M/100MHz		DC~300MHz(-3dB) 1.17ns 20M/100M/200MHz	
	Vertical Resolution **Input Coupling** **Input Impedance** **DC Gain Accuracy**(**) **Polarity** **Maximum Input Voltage** **Offset Position Range** **Waveform Signal Process**	8 bits@1M : 1mV*~10V (* : When the vertical scale is set to 1mV/div, the bandwidth limit will be set to 20MHz automatically) AC, DC, GND 1MΩ// 16pF approx. ±(3% X |Readout| + 0.1div + 1mV) when 2mV/div or greater is selected ; ±(5% X |Readout| + 0.1div + 1mV) when 1mV/div is selected (** : The measurement type is average of ≥16 waveforms with vertical position at zero) Normal , Invert 300Vrms , CAT I (300Vrms CAT II with GTP-150A-2/250A-2/350A-2 10:1 probe) 1mV/div ~ 20mV/div : ±0.5V ; 50mV/div ~ 200mV/div : ±5V ; 500mV/div ~ 2V/div : ±25V ; 5V/div~10V/div : ±250V + , - , × , ÷ , FFT , FFTrms , d/dt(Differentiation*) ,∫ dt(Integration*) , √ FFT : Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman-Harris.						
TRIGGER	**Source** **Trigger Mode** **Trigger Type** **Trigger Holdoff Range** **Coupling** **Sensitivity**	CH1 ,CH2, CH3*, CH4*, Line, EXT, D0-D7 or D0-D15** ; *four channel models only. **Logic analyzer option only. Auto (Supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence Edge, Pulse Width(Glitch), Video, Pulse Runt, Rise & Fall(Slope), Alternate, Glitch Trigger, Duration Trigger, Slope Trigger, Time out, Event-Delay(1~65,535 events), Time-Delay(Duration;10ns~10s), Logic*, Bus* , *with DS2-08LA or DS2-16LA option 10ns ~ 10s AC, DC, LF rej. , Hf rej. , Noise rej. DC ~ 100MHz Approx. 1div or 1.0mV ; 100MHz ~ 200MHz Approx. 1.5div or 15mV ; 200MHz ~ 300MHz Approx. 2div or 20mV						
EXT TRIGGER	**Range** **Sensitivity** **Input Impedance**	±15V DC ~ 100MHz Approx. 100mV 100MHz ~ 200MHz Approx. 150mV ; 200MHz ~ 300MHz Approx. 150mV 1MΩ±3%, ~16pF							
HORIZONTAL	**Time Base Range** **Pre-trigger** **Post-trigger** **Time Base Accuracy** **Real Time Sample Rate** **ET Sample Rate** **Record Length** **Acquisition Mode** **Peak Detection** **Average**	1ns/div ~ 100s/div (1-2-5 increments); ROLL : 100ms/div ~ 100s/div 10 div maximum 1,000 div max (depend on time base) ±20 ppm over any ≥ 1 ms time interval Max. : 2GSa/s 100GSa/s maximum for all models Max. : 2Mpts Normal, Average, Peak Detect, Single Sequence 2ns (typical) Selectable from 2 to 256						
X-Y MODE	**X-Axis Input** **Y-Axis Input** **Phase Shift**	Channel 1 ; Channel 3* (* : four channel models only) Channel 2 ; Channel 4* (* : four channel models only) ±3° at 100kHz							
CURSORS AND MEASUREMENT	**Cursors** **Automatic Measurement** **Control Panel Function** **Auto Counter** **Autoset** **Save Setup** **Save Waveform**	Amplitude, Time, Gating Available; Unit : Seconds(S), Hz(1/S), Phase (Degrees), Ratio(%) 36 sets: Pk-Pk, Max, Min, Amplitude, High, Low, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, ROVShoot, FOVShoot, RPREShoot, FPREShoot, Frequency, Period, RiseTime, FallTime, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase Cursors measurement 6 digits, range from 2Hz minimum to the rated bandwidth Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset 20set 24set						
DISPLAY SYSTEM	**TFT LCD Type** **Display Resolution** **Interpolation** **Waveform Display** **Waveform Update Rate** **Display** **Display Graticule**	8" TFT LCD SVGA color display(LED Back-light) 800 horizontal x 600 vertical pixels (SVGA) Sin(x)/x & Equivalent time sampling Dots, Vectors, Variable persistence(16ms~10s), Infinite persistence 80,000 waveforms per second, maximum Display mode : YT ; XY 8 x 10 divisions							
INTERFACE	**RS-232C** **USB Port** **Ethernet Port (LAN)** **SVGA Video Port** **GPIB** **Go/NoGo BNC** **Kensington Style Lock**	DB-9 male connector USB 2.0 Full-speed host port, USB 2.0 Full-speed device port RJ-45 connector, 10/100Mbps with HP Auto-MDIX (option) SVGA output (option) GPIB module (option) 5V Max/10mA TTL open collector output Rear-panel security slot connects to standard Kensington-style lock							
LOGIC ANALYZER (OPTION)	**Sample Rate** **Bandwidth** **Record Length** **Input Channels** **Trigger Type** **Thresholds** **Threshold Selections** **Threshold Accuracy** **User-defined Threshold Range** **Maximum Input Voltage** **Minimum Voltage Swing** **Input Impedance** **Vertical Resolution**	500MSa/s 200MHz 2M max 16 Digital (D15 - D0) or 8 Digital (D7~D0) Edge, Pattern, Pulse Width, Serial bus (I²C, SPI, UART.CAN. LIN), Parallel Quad-D0 ~ D3, D4 ~ D7. . . . Thresholds D8~D11*, D12~D15* (*: DS2-16LA only) TTL, CMOS, ECL, PECL, User Defined ±100mV ±10V ±40V ±500mV 101kΩ probe loading 8 pF 1 bit						
OPERATING ENVIRONMENT	**Temperature**	0°C ~ 50°C, Relative Humidity≤80% at 40°C or below ;≤45% at 41°C~50°C							
POWER SOURCE MISCELLANEOUS	**Line Voltage Range** **Multi-Language Menu** **On-Line Help** **Time clock**	AC 100V ~ 240V, 50Hz ~ 60Hz, auto selection Available Available Time and date, provide the date/time for saved data							
DIMENSIONS & WEIGHT	380(W) X 220(H) X 145(D)mm, Approx. 4.2 kg								

Note : Three-year warranty, excluding probes & LCD display panel.

Specifications subject to change without notice. BH-2000AGD4BH

ORDERING INFORMATION

GDS-2304A	300MHz, 4-Channel, Digital Storage Oscilloscope
GDS-2302A	300MHz, 2-Channel, Digital Storage Oscilloscope
GDS-2204A	200MHz, 4-Channel, Digital Storage Oscilloscope
GDS-2202A	200MHz, 2-Channel, Digital Storage Oscilloscope
GDS-2104A	100MHz, 4-Channel, Digital Storage Oscilloscope
GDS-2102A	100MHz, 2-Channel, Digital Storage Oscilloscope
GDS-2074A	70MHz, 4-Channel, Digital Storage Oscilloscope
GDS-2072A	70MHz, 2-Channel, Digital Storage Oscilloscope

ACCESSORIES

User manual CD x 1, Power cord x 1
GTP-070B-4 : 70MHz (10:1/1:1) Switchable passive probe for GDS-2072A/2074A(one per channel)
GTP-150A-2 : 150MHz (10:1/1:1) Switchable passive probe for GDS-2102A/2104A(one per channel)
GTP-250A-2 : 250MHz (10:1/1:1) Switchable passive probe for GDS-2202A/2204A(one per channel)
GTP-350A-2 : 350MHz (10:1/1:1) Switchable passive probe for GDS-2302A/2304A(one per channel)

OPTION

DS2-LAN	Ethernet & SVGA output	**DS2-16LA**	16-Channel Logic Analyzer includes 16 Channel Logic Analyzer Card(GLA-16) 16-Channel Logic Analyzer Probe(GTL-16LA)
DS2-GPIB	GPIB Interface	**DS2-08LA**	8-Channel Logic Analyzer : includes 8-Channel Logic Analyzer Card(GLA-08) 8-Channel Logic Analyzer Probe(GTL-08LA)
DS2-FGN	DDS Function Generator		

OPTION ACCESSORIES

GTL-08LA	8-Channel Logic Analyzer Probe	**GCP-300**	300kHz/200A Current probe
GTL-16LA	16-Channel Logic Analyzer Probe	**GCP-530**	50MHz/30A Current probe
GLA-08	8-Channel Logic Analyzer Card	**GCP-500**	500kHz/150A Current probe
GLA-16	16-Channel Logic Analyzer Card	**GCP-1030**	100MHz/30A Current probe
GRA-420	Rack Mount Kit	**GCP-1000**	1MHz/70A Current probe
GAK-003	50Ω Impedance Adapter	**GCP-206P**	Power supply for current probe (2 input channel)
GTL-232	RS-232C Cable, 9-pin, F-F Type, null modem, 2000mm	**GCP-425P**	Power supply for current probe (4 input channel)
GTL-246	USB Cable, USB 2.0, A-B Type, 1200mm	**GSC-008**	Soft Carrying Case
GTL-248	GPIB Cable, Double Shielded, 2000mm	**GDP-025**	25MHz High voltage differential probe
GTP-033A	Oscilloscope Probe, 35MHz 1:1 Passive Probe, BNC(P/M)	**GDP-050**	50MHz High voltage differential probe
GDB-03	Oscilloscope Education & Training Kit	**GDP-100**	100MHz High voltage differential probe

FREE DOWNLOAD

PC Software	FreeWave software	**Driver**	USB driver ; LabView driver

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