

MemoryPrime 2MEGA MEMORY BUILT-IN

GDS-1000A-U is a general purpose 2-channel oscilloscope designed to meet diversified educational demands and basic industrial requirements. This series provides bandwidths ranging from 70MHz to 150MHz. Together with intuitive human machine interface design and 5.7 inch color TFT LCD, GDS-1000A-U allows users to enjoy better measurement experiences.

GDS-1000A-U series offers dual sampling modes, 1GSa/s Real-Time and 25GSa/s Equivalent sampling rates, giving users a more flexible option to process incoming signals. With fast waveform process capability, more advanced triggering functions, and 2.5Kg light-weight design, GDS-1000A-U is a very capable oscilloscope to enhance users' returns on their investments in terms of price versus performance. GDS-1000A-U is also viewed as a replacement of analog oscilloscope. With its good functionality and capability, GDS-1000A-U can satisfy diversified educational demands as well as fulfill industrial basic requirements in servicing, maintenance, or production.

GDS-1000A-U also provides great accessibility through its USB Host and Device ports. Via USB Device port, user can easily build a remote control program to manipulate the machine. Via USB Host port, user is capable of not only storing data directly into flash disk for further analysis but also activating data logging function to monitor waveform data in designated time sequence.

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-U 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 extra-calculation GDS-1000A-U Series can provide sufficient information of testing.

USB Host & 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. USB Host mass storage and USB device port are supported, providing storage/transfer of measurement data and remote control for diversified solutions.

Guaranteed Protection

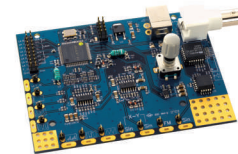
By providing the Global Lifetime Warranty Program for the GDS-1000A-U digital storage oscilloscope series, we believe you can have the same confidence we do in the quality of each GDS-1000A-U DSO. By purchasing a GDS-1000A-U you can be assured of a highly economical, low maintenance, quality DSO backed with the protection of the LifeTime Warranty program. For more details and applicable conditions regarding the LifeTime Service program, please visit the GW Instek or consult your nearest distributor.

GDS-1000A-U Series

FEATURES

- 150/100/70 MHz Bandwidth, 2 Input Channels
- 1GSa/s Real-Time and 25GSa/s Equivalent-Time Sampling Rate
- 2Mega Point Record Length
- 2mV~10V Vertical Scale
- 1ns~50s Horizontal Range
- Up to 27 Auto Measurements
- Versatile Math Function: +, -, x, /, FFT, FFTrms, Zoom FFT
- 5.7" Color TFT LCD Display
- USB Host & Device Ports
- Go/NoGo Function
- Data Logger
- Limited Lifetime Warranty

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

SPECIFICATIONS

| | | GDS-1072A-U | GDS-1102A-U | GDS-1152A-U |
|---|---|---|--|--|
| VERTICAL | Channels Bandwidth Rise Time Sensitivity Accuracy Input Coupling Input Impedance Polarity Maximum Input Waveform Signal Process Offset Range Bandwidth Limit | 2 DC~70MHz(-3dB) <5ns Approx. | 2 DC~100MHz(-3dB) <3.5ns Approx. | 2 DC~150MHz(-3dB) <2.3ns Approx. |
| TRIGGER | Source Mode Coupling Sensitivity | 2mV/div ~ 10V/div (1-2.5 increments) ± (3% x Readout + 0.1 div + 1mV) AC, DC & Ground 1MΩ ± 2%, ~15pF Normal & Invert 300V (DC+AC peak), CATII +, -, x, FFT, FFTrms, Zoom FFT 2mV/div ~ 50mV/div : ±0.4V ; 100mV/div ~ 500mV/div : ±4V ; 1V/div ~ 5V/div : ±40V ; 10V/div : ±300V 20MHz (-3dB) | | |
| EXT TRIGGER | Range Sensitivity Input Impedance Maximum Input | CH1, CH2, Line, EXT AUTO, NORMAL, SINGLE, TV, Edge, Pulse width AC, DC, LF rej., HF rej., Noise rej. DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 70/100/150MHz: Approx. 1.5div or 15mV | | |
| HORIZONTAL | Range Modes Accuracy Pre-Trigger Post-Trigger | ±15V DC ~ 25MHz : ~ 50mV ; 25MHz ~ 70/100/150MHz : ~15mV 1MΩ ±2%, ~ 15pF 300V (DC+AC peak), CATII | | |
| X-Y MODE | X-Axis Input Y-Axis Input Phase Shift | 1ns/div ~ 50s/div (1-2.5-5 increments); ROLL : 50ms/div ~ 50s/div MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y ±0.01% 10 div maximum 1000 div Channel 1 Channel 2 ±3° at 100kHz | | |
| SIGNAL ACQUISITION | Real-Time Sample Rate Equivalent Sample Rate Vertical Resolution Record Length Acquisition Mode Peak Detection Average | 1GSa/s maximum 25GSa/s maximum 8 Bits 2Mega Points maximum Normal, Peak Detect, Average 10ns(500ns/div ~ 50s/div) 2, 4, 8, 16, 32, 64, 128, 256 | | |
| CURSORS AND MEASUREMENT | Voltage Measurement Time Measurement Delay Measurement Cursors Measurement Auto Counter | V _{pp} , V _{amp} , V _{avg} , V _{rms} , V _{hi} , V _{lo} , V _{max} , V _{min} , Rise Preshoot/Overshoot, Fall Preshoot/Overshoot Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle Eight different delay measurement Voltage difference between cursors(ΔV)Time difference between cursors(ΔT),frequency measurement(1/ΔT) Resolution : 6 digits Accuracy : ±2% Signal Source: All available trigger source except the Video trigger mode | | |
| ADJUSTABLE PROBE COMPENSATION SIGNAL | Frequency Range Duty Cycle Range | 1kHz ~ 100kHz, 1kHz/STEP 5% ~ 95%, 5%/STEP | | |
| CONTROL PANEL FUNCTION | Autoset Save Setup Save Waveform | Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically Up to 15 sets of measurement conditions 15 sets of waveform | | |
| DISPLAY | TFT LCD Type Display Resolution Display Graticule Display Brightness | 5.7 inch 234(Vertically)x 320 (Horizontally) Dots 8 x 10 divisions Adjustable | | |
| INTERFACE | USB Device USB Host | USB1.1 & 2.0 full speed compatible (PictBridge Compatibility Printers Supported) Image (BMP) waveform data (CSV) and setup (SET) | | |
| POWER SOURCE | Line Voltage Range | AC 100V ~ 240V, 48Hz ~ 63Hz, Auto selection | | |
| MISCELLANEOUS | Go/NoGo Function Data Logger Multi-Language Menu Online Help | Available Available Available Available | | |
| DIMENSIONS & WEIGHT | 310(W) x 142 (H) x 140(D)mm, Approx. 2.5kg | | | |

The specifications apply when the oscilloscope is powered on for at least 30 minutes under +20°C~+30°C.

Specifications subject to change without notice. DS-1000A-UGD1DH

ORDERING INFORMATION

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|--------------------|---|
| GDS-1072A-U | 70MHz, 2 channel, 1GSa/s & 2Mega Memory DSO |
| GDS-1102A-U | 100MHz, 2 channel, 1GSa/s & 2Mega Memory DSO |
| GDS-1152A-U | 150MHz, 2 channel, 1GSa/s & 2Mega Memory DSO |

ACCESSORIES

User manual x1, Power cord x1
 Probe GTP-070A-4 or equivalent:70MHz(10:1/1:1)Switchable passive probe for GDS-1072A-U(one per channel)
 Probe GTP-100A-4 or equivalent:100MHz(10:1/1:1)Switchable passive probe for GDS-1102A-U(one per channel)
 Probe GTP-150A-2 or equivalent:150MHz(10:1/1:1)Switchable passive probe for GDS-1152A-U(one per channel)

OPTIONAL ASSESSORIES

GTL-242 USB Cable, USB 2.0 Type A - Type B, 4P **GTL-110** Test Lead, BNC-BNC Heads
GSC-006 Soft Carrying Case

FREE DOWNLOAD

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

Contact:
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 3910 Park Avenue, Unit 7
 Edison, NJ 08820
 732-632-6400
 support@instrumentation2000.com
 http://www.instrumentation2000.com

<http://www.instrumentation2000.com/GW-Instek-GDS-1072A-U-Oscilloscopes.aspx>

GW INSTEK
Simply Reliable