

100MHz/70MHz/50MHz Digital Storage Oscilloscope



GDS-1000-U Series

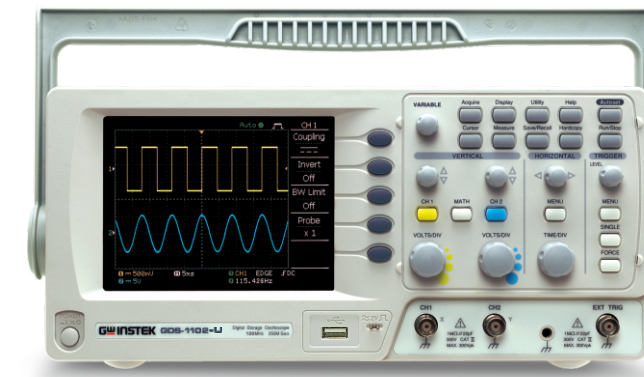


FEATURES

- * 100/70/50 MHz Bandwidth, 2 Input Channels
- * 250MSa/s Real-Time & 25GSa/s Equivalent-Time Sampling Rate
- * 4k Memory Depth per Channel
- * Save/Recall of 15 Front Panel Settings & Waveforms
- * 5.7" Color TFT LCD Display
- * 19 Auto Measurements
- * Math Function: Add, Subtract, FFT
- * USB Host & Device Ports
- * Go/NoGo Function
- * Data Logger
- * Limited Lifetime Warranty

The GDS-1000-U Series is 100MHz, 70MHz 50MHz digital storage oscilloscopes with 5.6" color TFT LCD displays. With dual sampling modes, a 4000 point record length, a real-time sampling rate of 250MSa/s and an ET sampling rate of 25GSa/s, the GDS-1000-U Series DSO provides an excellent balance of performance in terms of memory length and sampling speed. Other major features include user-friendly menu tree operations, compact size, ergonomic design, USB host device port, data logger and Go/NoGo test. The GDS-1000-U Series is designed to meet today's most demanding engineering requirements and budgets.

SPECIFICATIONS	GDS-1052-U	GDS-1072-U	GDS-1102-U
VERTICAL			
Channels	2	2	2
Bandwidth	DC~50MHz(-3dB)	DC~70MHz(-3dB)	DC~100MHz(-3dB)
Rise Time	<7ns Approx.	<5ns Approx.	<3.5ns Approx.
Sensitivity	2mV/div ~ 10V/div (1-2.5 increments)		
Accuracy	±(3% x Readout + 0.1 div + 1mV)		
Input Coupling	AC, DC & Ground		
Input Impedance	1MΩ ± 2%, ~15pF		
Polarity	Normal & Invert		
Maximum Input	300V (DC+AC peak), CATII		
Waveform Signal Process	+, -, FFT		
Offset Range	2mV/div ~ 50mV/div : ±0.4V ; 10mV/div ~ 500mV/div : ±4V ; 1V/div ~ 5V/div : ±40V ; 10V/div: ±300V		
Bandwidth Limit	20MHz (-3dB)		
TRIGGER			
Sources	CH1, CH2, Line, EXT		
Modes	AUTO, NORMAL, SINGLE, TV, Edge, Pulse width		
Coupling	AC, DC, LF rej., HF rej., Noise rej.		
Sensitivity	DC ~ 25MHz: Approx. 0.5div or 5mV; 25MHz ~ 50/70/100MHz: Approx. 1.5div or 15mV		
EXT TRIGGER			
Range	±15V		
Sensitivity	DC ~ 25MHz : ~ 50mV ; 25M ~ 50/70/100MHz : ~15mV		
Input Impedance	1MΩ ±2% , ~ 16pF		
Maximum Input	300V (DC+AC peak) , CATII		
HORIZONTAL			
Range	1ns/div ~ 50s/div (1-2.5-5 increments); ROLL : 50ms/div ~ 50s/div		
Modes	MAIN, WINDOW, WINDOW ZOOM, ROLL, X-Y		
Accuracy	±0.01%		
Pre-Trigger	10 div maximum		
Post-Trigger	1000 div		
X-Y MODE			
X-Axis Input	Channel 1		
Y-Axis Input	Channel 2		
Phase Shift	±3° at 100kHz		
SIGNAL ACQUISITION			
Real-Time Sample Rate	250MSa/s maximum		
Equivalent Sample Rate	25GSa/s maximum		
Vertical Resolution	8 Bits		
Memory Depth	4K Points maximum		
Acquisition Mode	Normal, Peak Detect, Average		
Peak Detection	10ns(500ns/div ~ 50s/div)		
Average	2, 4, 8, 16, 32, 64, 128, 256		
Voltage Measurement	V _{pp} , V _{amp} , V _{avg} , V _{rms} , V _{hi} , V _{lo} , V _{max} , V _{min} , Rise Preshoot/ Overshoot, Fall Preshoot/ Overshoot		
Time Measurement	Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle		
Cursors Measurement	Voltage difference between cursors (ΔV) Time difference between cursors (ΔT)		
Auto Counter	Resolution : 6 digits ; Accuracy : ±2% Signal Source: All available trigger source except the Video trigger mode		
ADJUSTABLE PROBE COMPENSATION SIGNAL			
Frequency Range	1kHz ~ 100kHz, 1kHz/STEP		
Duty Cycle Range	5% ~ 95%, 5%/STEP		
CONTROL PANEL FUNCTION			
Autoset	Adjust Vertical VOLT/DIV, Horizontal TIME/DIV, and Trigger level automatically		
Save Setup	Up to 15 sets of measurement conditions		
Save Waveform	15 sets of waveform		



GDS-1000-U Series

SPECIFICATIONS	
DISPLAY	
TFT LCD Type	5.7 inch
Display Resolution	234 (Vertically) x 320 (Horizontally) Dots
Display Graticule	8 x 10 divisions
Display Brightness	Adjustable
INTERFACE	
USB Device	USB1.1 & 2.0 full speed compatible
USB Host	Image (BMP) waveform data (CSV) and setup (SET)
POWER SOURCE	
Line Voltage Range	AC 100V ~ 240V, 48Hz ~ 63Hz, Auto selection
MISCELLANEOUS	
Go/NoGo Function	Available
Data Logger	Available
Multi-Language Menu	Available
Online Help	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.

ORDERING INFORMATION

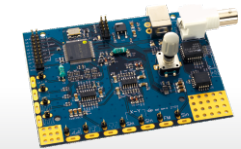
GDS-1052-U	50MHz, 2-channel, Color LCD Display DSO
GDS-1072-U	70MHz, 2-channel, Color LCD Display DSO
GDS-1102-U	100MHz, 2-channel, Color LCD Display DSO
ACCESSORIES :	
Quick Start Guide x 1, Power Cord x 1, CD x 1	
Probe-GTP-070A-4 : 70MHz(10:1/1:1)Switchable Passive Probe for GDS-1052-U(one per channel)	
Probe-GTP-070A-4 : 70MHz(10:1/1:1)Switchable Passive Probe for GDS-1072-U(one per channel)	
Probe-GTP-100A-4 : 100MHz(10:1/1:1)Switchable Passive Probe for GDS-1102-U(one per channel)	
OPTIONAL ASSESSORIES	
GTL-246	USB Cable, USB 2.0 A-B TYPE CABLE, 4P
GTL-110	Test Lead, BNC-BNC Heads
GSC-006	Soft Carrying Case
FREE DOWNLOAD	
PC Software	FreeWave software
Driver	USB driver LabView Driver

Rear Panel



GDB-02 Oscilloscope Education and Training Kit

For : GDS-1000A-U/GDS-1000-U Series



GSC-006 Soft Carrying Case

