



**NEW**

## GDS-122 (20MHz)



### FEATURES

- \* 20 MHz Bandwidth
- \* 100 MS/s Real-Time Sampling Rate
- \* Digital Storage Oscilloscope & Multimeter
- \* True RMS Multimeter Volts, Amps, Ohms, Continuity, Diode
- \* Dual Independent Floating Isolated Channels (for Multimeter and Between Oscilloscope and Multimeter)
- \* Trigger Mode : Free Run, Single Shot, Edge, Video
- \* USB Interface
- \* 6 Hour Capacity Li-ion Rechargeable Battery
- \* 3.8" Color LCD, Resolution: 320 × 240
- \* Light Weight at 690g

### PACKAGE CONTENTS

- |   |   |
|---|---|
| Extension module for large current measurement                                      | Oscilloscope probe  |
|  |  |
| Extension module for small capacitance measurement                                  | Multimeter test lead  |
|  |  |
| Soft carrying case  | AC-DC adaptor   |
|  |  |
| 1kHz square wave output cable   | USB communication cable   |
|  |  |
| CD-ROM(Software), User manual   |   |

The GDS-122 is a reliable and handy instrument for all test and electronic engineers. This model is designed to carry out complicated on-site tests. The Dual-channel unit provides 20MHz of bandwidth with a sampling rate of 100MS/s with additional DMM functionality. The color LCD display with a 320 x 240 resolution helps you to read waveforms easily, especially when displaying a lot of data or multiple waveforms. The compact design with a total weight of 690g allows engineers to carry it around easily. The unit's protective cover is insulated and specially designed to endure tough environments. A rechargeable Li-ion battery ensures convenience for on-site testing.

SPECIFICATIONS	
<b>VERTICAL</b>	
Analog Digital Converter Resolution	8 bits simultaneously sampling on both channels
Sensitivity	5mV/div 5V/div at the input BNC
Displacement Range	±50V (500mV ~ 5V), ±1V(5mV ~ 200mV)
Analog Bandwidth	20MHz
Single Bandwidth	Full bandwidth
Low Frequency Response AD Coupling,-3dB	±5Hz at the BNC input
Rise Time	17.5ns (typical)
DC Gain Accuracy	±5%
DC Measurement Accuracy	±(5% reading + 0.05 div), at the Average sampling mode (> 16)
<b>TRIGGER</b>	
Trigger Sensitivity Edge Triggering	DC coupling : 1div (full bandwidth) AC coupling : Same as the DC coupling ≥ 50Hz
Trigger Level	±6 divs from the screen center
Trigger Level Accuracy	±0.3 divs (typical)
Trigger Displacement	655 divs (pre-trigger), 4 divs (post-trigger)
50% Level Setting	Input signal frequency ≥ 50Hz
Trigger Sensitivity	2 divs of peak-to-peak value
Video Trigger	Supports NTSC, PAL and SECAM, any or line frequency
<b>HORIZONTAL</b>	
Sampling Rate Range	10S/s~100MS/s
Waveform Interpolation	sin x / x
Record Length	6K points on each channel
Scanning Speed Range S/div	5ns/div 5s/div, stepping in the "1-2.5-5" mode.
Sampling Rate and Relay Time Accuracy	±100ppm (any time interval which is equal to or larger than 1ms)
Time Interval	Single: ±(1 sampling interval time+100ppm×reading+0.6ns)
(T)Measurement Accuracy Full Bandwidth	>average 16 : ±(1 sampling interval time + 100ppm×reading+0.4ns)
<b>INPUT</b>	
Input Coupling	DC, AC
Input Impedance	1MΩ±2% connected in parallel with 20pF±3pF
Probe Attenuation Coefficient	1X, 10X, 100X, 1000X
Max. Input Voltage	400V (peak)
Channel Delay Time (Typical)	150ps
<b>SAMPLING</b>	
Sampling Modes	Normal sampling Peak detection Average value
Sampling Rate	100 MSa/s
<b>MEASUREMENT</b>	
Cursor Measurement	Voltage difference (V) and time difference (T) between cursors
Auto Measurement	Peak-to-peak value, average value, root mean square value, frequency and cycle
<b>MULTIMETER SPECIFICATIONS</b>	
Input Impedance	10MΩ
Voltage	VDC: 400mV, 4V, 400V ±(1% +1 digit)
Max Input	DC 400V
VAC	4V, 40V, 400V ±(1% +3 digit)
Frequency	40Hz ~ 400Hz
Max Input	AC 400V (Virtual value)
Current	DCA : 40mA, 400mA ±(1.5% +1 digit); 20A: ±(3% +3 digit) DAA : 40mA ±(1.5% +3 digit), 400mA ±(2% +1 digit); 20A: ±(5% +3 digit)
Impedance	400Ω ±(1%+3 digit), 4KΩ, 40KΩ, 400KΩ, 4MΩ ±(1%+1 digit), 40MΩ ±(1.5%+3 digit)
Capacitance	51.2nF ~ 100uF ±(3%+3 digit)
Diode	0V ~ 1.5V On/Off measurement < 50 (±30) beeping
<b>GENERAL SPECIFICATIONS</b>	
Display	Display type : 3.8" color liquid crystal display Display resolution : 320 (horizontal) × 240 (vertical) pixels Display color : 4096 colors
Power Adapter	Power supply : 100-240 VACRMS, 50Hz, CAT II ; Power consumption : < 6W
Operating Temperature	Used battery : 0~50 °C (32~122 °F); Power adapter : 0~40 °C (32~104 °F)

### ORDERING INFORMATION

**GDS-122** Handheld Digital Storage Oscilloscope & Multimeter

#### ACCESSORIES :

User manual, AC-DC Adaptor, Probe-T5060:60MHz(10:1/1:1) Switchable Passive Probe (one per channel)  
Multimeter test lead, Serial data communication cable,  
Extension module for small capacitance measurement, Extension module for large current measurement

#### FREE DOWNLOAD

PC Software