

250/150/100/60MHz DIGITAL STORAGE OSCILLOSCOPE



GDS-840C/820C/810C/806C
(250/150/100/60MHz)



GDS-840S/820S/810S/806S
(250/150/100/60MHz)

GDS-800 Series at 250MHz/150MHz/100MHz/60MHz bandwidth with Color or Monochrome LCD display, are designed and built to meet the demands of a modern Digital Storage Oscilloscope (DSO) in the main stream market today. With 125k points memory and 25GSa/s ET sampling rate per channel, GDS-800 Series provides a good balance of DSO performance in terms of memory length and sampling speed. The easy-to-remember menu tree, the analog-scope-like front panel design, the advanced trigger functions of Pulse Width, TV Line, Event and Time-Delay, and the availability of RS-232C, GPIB, USB and Printer Port, make GDS-800 Series a general purpose product to meet most of the waveform measurement applications in the market.

FEATURES

- * 250/150/100/60MHz Bandwidth With Either Color or Monochrome LCD Display
- * 125k Points Long Memory and 12 Division Horizontal Display
- * 25GSa/s Sampling Rate for Repetitive Waveforms
- * Advanced Trigger : Pulse Width, TV Line, Event Delay And Time Delay
- * Go/NoGo and Auto Setup Sequence
- * FFT Function
- * Built-In Help Manual, Multi-Language and PC Software
- * Standard Interface : RS-232C (for GDS-800 Series) USB, Printer Port, Go/NoGo Output (for GDS-820/840 Series)
- * Option 01: GPIB interface
- * Option 11: USB interface, Printer Port and Go/NoGo Output (for GDS-806/810 Series)

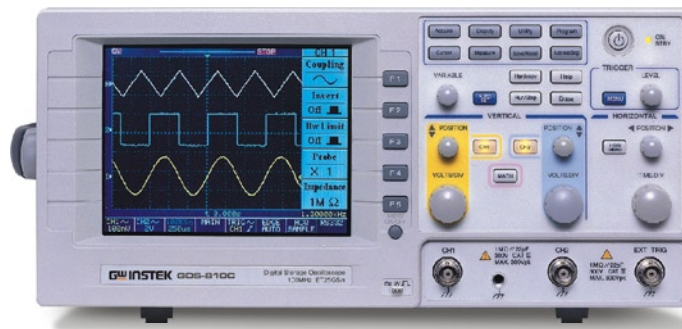


SPECIFICATIONS		GDS-806S	GDS-806C	GDS-810S	GDS-810C	GDS-820S	GDS-820C	GDS-840S	GDS-840C
DISPLAY SYSTEM	Display Device	Mono (320 x 240) 5.7 LCD	Color (320 x 240) 5.7 LCD	Mono (320 x 240) 5.7 LCD	Color (320 x 240) 5.7 LCD	Mono (320 x 240) 5.7 LCD	Color (320 x 240) 5.7 LCD	Mono (320 x 240) 5.7 LCD	Color (320 x 240) 5.7 LCD
	Display Contrast Waveform Display Graticule Display Mode	Adjustable 8 x10 divisions (8 x 12 div, when menu off) Dot, Vector, Accumulate							
VERTICAL SYSTEM	Bandwidth	60MHz (-3dB)		100MHz (-3dB)		150MHz (-3dB)		250MHz (-3dB)	
	Channels	2							
	Vertical Resolution	8-Bit							
	Vertical Sensitivity	2mV/div ~ 5V/div							
	Vertical Accuracy	± 3%							
	Rise Time	<5.8ns		<3.5ns		<2.3ns		<1.4ns	
	Input Impedance	1MΩ ±2%, ~18pF				1MΩ ±2%, ~22pF		1MΩ ±2%, ~18pF	
	Input Coupling	AC, DC, & Ground							
	Polarity	Normal & Invert							
	Maximum Voltage Between Signal & Common at Input BNC	300V (DC+AC peak), CATII							
	Waveform Signal Process	CH1+CH2, CH1-CH2, FFT							
	Offset Range	2mV/div ~ 50mV/div : ±0.5V; 100mV/div ~ 500mV/div : ±5V; 1V/div ~ 5V/div : ±50V							
	BW Limit	20MHz (-3dB)							
HORIZONTAL SYSTEM	Time Base Range	1ns/div ~ 10s/div (1-2.5 increments); Roll: 250ms/div ~ 10s/div							
	Time Base Mode	Main, Window, Window Zoom, Roll, X-Y							
	Time Base Accuracy	± 0.01%							
	Delay Range	Pre-trigger: 20 div maximum; Post-trigger: 1000 div							
SIGNAL ACQUISITION SYSTEM	Real-Time Sample Rate	100MSa/s maximum on each channel							
	Equivalent Sample Rate	25GSa/s E.T. maximum on each channel							
	Record Length	125k Points/CH							
	Peak Detection	10ns (500ns/div ~ 10s/div)							
	Acquisition Mode	Sample, Peak Detect, Average							
	Average	2, 4, 8, 16, 32, 64, 128, 256							
TRIGGER	Trigger Source	CH1, CH2, Line, Ext							
	Mode	Auto Level, Auto, Normal, Single, TV, Edge, Pulse Width, Time Delay, Event Delay							
	Coupling	AC, DC, HF, LF, Noise Reject							
	Sensitivity	DC ~ 25MHz : 0.5div or 5mV 25MHz~60MHz : Approx. 1.5div or 15mV		DC ~ 25MHz : 0.5div or 5mV 25MHz~100MHz : Approx. 1.5div or 15mV		DC ~ 30MHz : Approx. 0.5div or 5mV; 30MHz~150MHz : Approx. 1.5div or 15mV		DC ~ 30MHz : Approx. 0.5div or 5mV; 30MHz~150MHz : Approx. 1.5div or 15mV 150MHz ~ 250MHz : Approx. 2.0div or 20mV	
X-Y MODE	X-Axis Input / Y-Axis Input Phase Shift	Channel 1 / Channel 2 ± 3° at 100kHz							
CURSOR & MEASUREMENT	Auto Voltage Measurement	$V_{pp}, V_{amp}, V_{avg}, V_{rms}, V_{hi}, V_{lo}, V_{max}, V_{min}$							
	Auto Time Measurement	Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle							
	Cursor Measurement	Voltage difference between cursors (ΔV) Time difference between cursors (ΔT) Frequency difference between cursors ($1/\Delta T$)							

SPECIFICATIONS		GDS-806S	GDS-806C	GDS-810S	GDS-810C	GDS-820S	GDS-820C	GDS-840S	GDS-840C
FREQUENCY COUNTER	Readout Resolution Frequency Range Signal Source	6 digits AC Coupled, 20Hz ~ bandwidth; Resolution: 10Hz 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				1kHz 50%			
EXTERNAL TRIGGER	Range	$\pm 15V$							
	Sensitivity	DC ~ 25MHz: ~50mV 25MHz ~ 60MHz: ~100mV		DC ~ 25MHz: ~50mV 25MHz ~ 100MHz: ~100mV		DC ~ 30MHz: ~50mV 30MHz ~ 150MHz: ~100mV		DC ~ 30MHz: ~50mV 30MHz ~ 150MHz: ~100mV 150MHz ~ 250MHz: ~150mV	
CONTROL PANEL FUNCTION	AutoSet Save/Recall Waveform Trace Save/Recall	"Autoset" can adjust vertical (Volt/div), Horizontal (Sec/div) and Trigger level automatically Up to 15 sets of measurement conditions can be saved and recalled 2 sets of waveform can be saved and recalled							
	INTERFACE	Standard	RS-232C			RS-232C, USB, Printer Port, Go/NoGo Output			
	Optional Opt. 01	GPIB (Factory Installed)							
	Optional Opt. 11	USB, Printer Port, Go/NoGo Output (Factory Installed)				-			
POWER SOURCE		100V ~ 240V AC, 47Hz ~ 63Hz, Auto selection							
ACCESSORIES		Probe-GTP-060A:60MHz x10/x1 Switchable Passive Probe for GDS-806S/806C Probe-GTP-100A:100MHz x10/x1 Switchable Passive Probe for GDS-810S/810C Probe-GTP-150A:250MHz x10/x1 Switchable Passive Probe for GDS-820S/820C Probe-GTP-250A:250MHz x10/x1 Switchable Passive Probe for GDS-840S/840C User manual x 1, Power Cord x 1							
DIMENSIONS & WEIGHT		310W x 142H x 254D (mm), Approx. 4.1kg							

ORDERING INFORMATION	
GDS-806C 60MHz, 2-channel, Color LCD Display DSO	GDS-820C 150MHz, 2-channel, Color LCD Display DSO
GDS-806S 60MHz, 2-channel, Mono LCD Display DSO	GDS-820S 150MHz, 2-channel, Mono LCD Display DSO
GDS-810C 100MHz, 2-channel, Color LCD Display DSO	GDS-840C 250MHz, 2-channel, Color LCD Display DSO
GDS-810S 100MHz, 2-channel, Mono LCD Display DSO	GDS-840S 250MHz, 2-channel, Mono LCD Display DSO
Option	
Opt.01: GPIB Interface (Factory Installed)	Opt.11: USB Interface, Printer Port, Go/NoGo Output (Factory Installed) (for GDS-806/810 Series Only)
Optional Accessories	
GRA-405 Rack Mounting (19", 4U)	GTL-110 Test Lead, BNC-BNC Heads
GSC-005 Soft Carrying Case	GTL-232 RS-232C Cable, 9-pin Female to 9-pin, Null Modem for Computer
GTC-001 Instrument Cart, 450(W) x 430(D) mm (120V Input Socket)	GTL-242 USB1.1 A-B Type Cable, 1800mm
GTC-002 Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)	

Note: Only one kind of opt.01 and opt.11 could be selected.



Rear Panel



GRA-405 Rack Adapter Panel
Rack Mounting (19", 4U)



GSC-005 Soft Carrying Case

