

GDS-3000A Series

1 GHz Digital Storage Oscilloscope

FEATURES

- 1 GHz Bandwidth, 2 or 4 Input Channels
- 5 GSa/s Real-time Sampling Rate (Half Channels);
 2.5 GSa/s Real-time Sampling Rate (All Channels)
- Per Channel 200 Mpts Memory Depth
- 200,000 wfms/s of Waveform Update Rate
- 10.2 inch 800 x 480 TFT LCD Display
- 490,000 Segments of Segmented Memory and the Waveform Search Function to Optimize the Efficiency of Record Length
- Zoom Window and Play/Pause Rapidly Navigate the Waveforms
- 38 sets of Automatic Measurement Offer Various Measurement Selections
- High Resolution Acquisition Mode
- I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- Dual Channel Spectrum Analyzer (DC to 2.5 GHz) with spectrogram
- Dual Channel 25 MHz Arbitrary Waveform Generator
- Optional 13 Sets of Power Analysis Measurements
- Optional 16 Digital Channels with a Logic Analyzer (MSO)
- Flexible Remote Control Connectivity (Standard: USB/LAN/RS-232; Option: GPIB)



One Oscilloscope with Time Domain, Frequency Domain and Power Measurement.

GDS-3000A digital storage oscilloscopes have 1 GHz models with two-channel, four-channel and 16-channel logic analyzer options. The series features the memory length of each channel up to 200 Mpts; the sampling rate of 5 GSa/s half channels and 2.5 GSa/s on all channels. Its display is 10.2" TFT LCD and it provides the color display mode.



Accurate Signal Acquisition and Analysis

GDS-3000A strengthens many functions and specifications required for oscilloscope measurements including the memory depth of up to 200 Mpts per channel. The advantage of long memory is that it allows users to maintain high sampling rate even at low speed time settings; the waveform update rate is up to 200,000 wfm/s; and the segmented memory can capture and analyze up to 490,000 segments.

For measurement, GDS-3000A incorporates the Fine scale function to allow users to fine-tune the vertical scale according to the requirements so as to achieve full scale measurement to improve its measurement accuracy. With a 10.2" large screen display and the acquisition method with the high resolution mode allow low-noise signals under high-bandwidth measurements.

In addition, the series is equipped with 1 $M\Omega$ and 50 Ω input impedance selections, which can be set according to different DUT measurement requirements to achieve the effect of impedance matching. The search function can quickly find the signals that meet the conditions according to the needs of the test. The cursor mark function allows users to clearly observe the voltage (or current), time and delta data of each point measured by the cursor. Via the indicator function, the measured range is to be shown at the specific section of the waveform.

Dual Domain Measurement

For frequency domain measurement, it is equipped with a dual channel spectrum analyzer, which allows users to measure and analyze the frequency domain signals of two channels at the same time. It is also equipped with Spectrogram function, which allows users to easily observe complex frequency domain fluctuations that are proportionally decomposed into simple superimposed waves so as to understand the signal strength distribution. The soft keys allow users to have more intuitive settings for operation, which can improve the measurement efficiency.

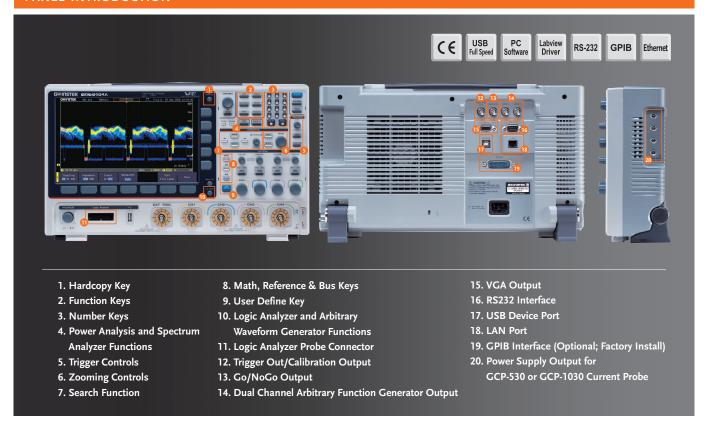
13 Sets of Switching Mode Power Supply Measurements

GDS-3000A provides a rich measurement items for switch mode power supply testing. The provided power supply test items include AC input analysis items: Power Quality, Harmonics, Inrush Current; DC output analysis required test items: Ripple/Noise, Transient Response Analysis, Turn On/OFF, Efficiency; Control Loop response(Bode) and PSRR(Power Supply Rejection Ratio); Complete switching component analysis items: Modulation, Switching loss, SOA(Safe Operation Area) and Magnetics analysis: B-H curve. On one side of GDS-3000A, a power supply for 50 MHz (GCP-530) and 100 MHz(GCP-1030) current probes is provided. This feature can save users the cost of purchasing the power supply for current probes and relief the burden of carrying the power supply when going out.

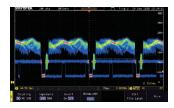
GDS-3000A is standardly equipped with a dual-channel 25 MHz arbitrary waveform generator and the frequency response analysis function. The FRA has the load function, which can load multiple FRA measurement results for comparison. User define shortcut key provides user-definable shortcut keys. The use of the shortcut key can improve measurement efficiency.

GDS-3000A provides a rich communication interfaces. In addition to the commonly used USB Host, USB Device port, and LAN port, it also includes a highly stable RS232 interface and an optional GPIB interface.

SELECTION GUIDE				
Model	GDS-3102A	GDS-3104A		
Bandwidth	1 GHz	1 GHz		
Channels	2	4		
Record Length	200 M / CH	200 М / СН		
Real-time Sampling Rate	Max. 5 GSa/s	Max. 5 GSa/s		
Built-in	Dual Channel Spectrum Analyzer(DC to 2.5 GHz) with Spectrogram			



10.2 INCH, 8 BITS RGB COLOR GRADIENT DISPLAY



With respect to the waveform display technology, the GDS-3000A series oscilloscope is capable of displaying RGB color gradients with 8 bits each which can delineate the profound gradational fluctuations; as if it can recreate the analog oscilloscope display capability. When a composite signal is input, the GDS-3000A series, has the ability to precisely reveal the colored burst signal and to show details of layers with the brightness. Hence, the dull monochrome waveform is imbued with vitality, it allows users to easily determine and analyze waveforms.

B. 200 M MEMORY DEPTH PER CHANNEL INDEPENDENTLY



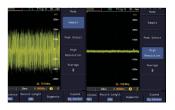
The GDS-3000A series oscilloscope has a powerful and incomparable memory depth for the data retrieving. 200 M memory depth per channel independently surpasses the specification of the industry's GDS-3000A series DSO boundary. 200 M memory depth allows users to easily seize the waveform detail while conducting fundamental measurement applications.

C. FINE SCALE



The Fine scale function is incorporated to allow users to fine-tune the vertical scale according to their needs to achieve full-scale measurement and improve the accuracy of the voltage or current measurements.

. HIGH RESOLUTION ACQUISITION MODE



The acquisition method with high resolution mode is provided to effectively remove noise and improve the accuracy of automatic measurement.





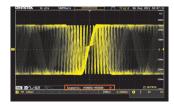


The GDS-3000A series soundly provides 38 measurement items. Based upon the parameters such as voltage, current, time, frequency, and delay measurement, users can decide which measurement items to choose. On the single display screen, the GDS-3000A series provides 8 measurement selections.

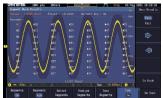
The statistics mode can also be selected for users to analyze the mean value, the maximum, the minimum, and standard deviation of the retrieved waveforms to ensure signal's integrity and identify abnormal waveforms.

Users can also use the Measure Shortcuts function to select the item to be measured, and then store the selected item in Shortcut 1 to 4, which can be selected to conduct measurements for the same product next time. Users just select the previously stored Shortcut 1 to 4 without making new selections from Add measurement, and all the measurement items will be displayed on the screen to improve the measurement efficiency.

490,000 SEGMENTED MEMORY







In addition, GDS-3000A incorporates the Mask determination function under Segment, allowing users to quickly analyze abnormal waveforms that exceed the target range.

As the length of the sampling memory increases to 200 Mpts, the number of acquisitions that can be set in the GDS-3000A's segmented memory at one time has also increased significantly, and up to 490,000 waveforms can be stored continuously (under the condition of the memory length of 1,000 pts).

The segmented memory allows users to capture and observe interesting waveforms. Through the statistical function, it is especially helpful for finding sporadic problems in continuous events.

WAVEFORM SEARCH FUNCTION





Users can rapidly search desired waveforms according to the trigger condition. After activating the search function, hollow inverted triangles will show the location met the trigger condition. The upper left hand corner Overall will show the total number of waveforms met the trigger condition. Users can set waveform search by the trigger condition such as Edge, pulse width, Runt, Rise/Fall, and Bus.

When the trigger condition is met, hollow inverted triangles will appear. Users can save all marks to compare with the next input signal. The front panel of the GDS-3000A Series controls waveform zoom-out and play/pause function to swiftly identify each desired event. The function allows users to conveniently complete waveform search and save marks for rapid comparison and analysis.

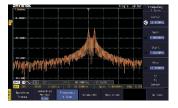


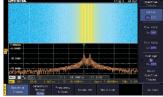


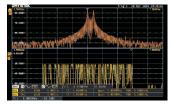
GDS-3000A incorporates a User Define key to allow users to set any one of the ten functions of User Define based upon the measurement requirement, including XY/YT; Reset all positons to 0; Measure all On/Off; Measure statistics On/Off; Segments On/Off; AWG output On/Off; Auto/Normal; Clear persistence; Freeze display and transparent readouts On/Off.

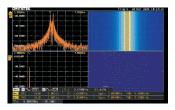
Users can quickly select the function setting by just pressing a key to quickly meet the measurement needs so as to improve the measurement efficiency.

SPECTRUM ANALYZER FUNCTION









Spectrum Analyzer

Spectrum Analyzer + Spectrogram

Dual Spectrum Analyzer

Dual Spectrum Analyzer + Spectrogram

For frequency domain measurement, dual channel spectrum analyzer is equipped. Users can measure and analyze dual channel frequency domain signals at the same time. It also includes the Spectrogram function, which allows users to easily observe the signal's strength distribution and the relationship of the spectrum distribution over time. The independent numeric key input on the panel makes the operation more convenient for users, thereby improving the measurement efficiency. For promotion selling point, dual Spectrum Analyzer and Spectrogram can test the frequency response of the left and right channels of the Audio Amplifier at the same time.

The above displays are:

- 1. Spectrum Analyzer
- 2. Spectrum Analyzer + Spectrogram
- 3. Dual Spectrum Analyzer (Dual channels can set different conditions)
- 4. Dual Spectrum Analyzer + Spectrogram

25 MHz DUAL CHANNEL ARBITRARY WAVEFORM GENERATOR







* The above two displays are load from CH1, and then it was generated by AWG to CH3

GDS-3000A is standardly equipped with a 25 MHz dual channel arbitrary waveform generator, and provides built-in Sine, Square, Pulse, Ramp, DC, Noise, Sinc, Gaston, Lorentz, Exponential Rise, Exponential Fall, Haversine, Cardiac and other waveforms. Users can be directly input the amplitude and frequency of the signal through the numeric keys. Compared with the previous model, the new function is that users can select the arbitrary waveform

function of the AWG to store the signal measured by the analog channel of the oscilloscope to the arbitrary waveform of the signal source (UAW file), or it can directly output this signal from the signal generator, which is a new function that allows users to conveniently generate various measured signals to simulate diversified signal outputs.



GDS-3000A has a built-in Web Server function to allow users to connect GDS-3000A's Web Server by using a browser in the same network domain via Ethernet connection. System information can be obtained and the oscilloscope screen (. png file) can be observed and captured remotely. GDS-3000A can be controlled remotely through GUI to download and upload configuration files and test SCPI commands. Users can use this function to obtain oscilloscope information and configuration files, and operate remote control even if they are not on-site.

POWER ANALYSIS FUNCTIONS



13 Sets of Switching Mode Power Supply Measurements

In daily life, switching power supplies have become the mainstream of power supplies. Engineers often have to rack their brains in order to improve product performance and reduce switching loss, and Ripple/Noise.

GDS-3000A has an option of rich measurement items for switching mode power supply testing. To meet engineers' measurement needs for switching mode power supply, rich measurement function can help engineers save a lot of measurement computing time and improve product development efficiency.



Power Quality

For AC voltage and current measurement, its distortion and other abnormal phenomena will affect the power consumption, efficiency and reliability of the power supply.

Measurement items: current/voltage root mean square value, actual power, reactive power, frequency, power factor, phase angle, +/- V Peak, +/- I Peak, AC/DC voltage and current, voltage/current crest factor, impedance, resistance and reactance.



Transient Response Analysis

Output analysis required test items: Ripple/Noise, Transient response analysis, Turn On/OFF and Efficiency. It measures the time required for the output DC voltage to reach the stable level expected by users when the output load changes suddenly.

Measurement item: transient response value (s).



Switching Loss

Switching component analysis items: Switching loss, SOA (Safe Operation Area) and Modulation analysis. Analyze the integral of the product of the voltage and current of the switching device (MOSFET or IGBT) in the power supply, and then measure the switching loss of the device, including Turn-on switching loss, Turn-off switching loss and Conduction loss. The higher the switching frequency, the higher the Turn-on and Turn-off switching loss.

Measurement items: power loss, energy loss & Rds(on)/Vce(sat).

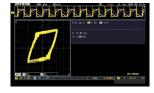


Control Loop Response

Control Loop Response and PSRR (Power Supply Rejection Ratio) PSRR: Power supply rejection ratio (PSRR) analysis, which is used to confirm that power equipment suppresses ripple noise in different frequency ranges.

Measurement items: frequency and

PSRR (dB).



Magnetics Analysis

Magnetics Analysis (B-H Curve): The characteristics of magnetic materials are divided into magnetic flux density (B), magnetic field strength (H) and material magnetic permeability (μ). The B-H diagram is usually used to verify the saturation of the magnetic components in the switching power supply.

Measurement items: Measure the voltage and current flowing through the magnetic component and draw a B-H diagram.

OPTIONAL 16-CHANNEL LOGIC ANALYZER





GDS-3000A can be upgraded to a mixed-signal oscilloscope (MSO) by selecting an optional 16-channel logic analyzer, which is a plugin. When you have several GDS-3000As, you can plug in an optional logic analyzer to other unit at any time without installing any software. Users can analyze digital signals, I²C, SPI, UART, CAN, LIN and parallel bus through a logic analyzer.

SPECIFICATIONS				
VEDTICA		GDS-3102A	GDS-3104A	
VERTICAL	Channels	2 CH+EXT	4 CH+EXT	
	Bandwidth Calculated Rise Time Bandwidth Limit	DC to 1 GHz (-3 dB)@50Ω input impedance; DC to 500 MHz (-3 dB)@1 MΩ input impedance 350 ps 20 MHz/100 MHz/200 MHz/350 MHz*1		
	Vertical Resolution	, , ,	The tolerance of bandwidth limit is ± 10 %. The bandwidth is limited to 20 MHz at 2 mV/div or below; The bandwidth is limited to 900 MHz at 5 mV/div	
	Input Coupling Input Impedance DC Gain Accuracy Polarity Maximum Input Voltage(1 MΩ) Maximum Input Voltage(50 Ω) Offset Position Range Waveform Signal Process	AC, DC, GND 1 MΩ// 22 pF approx. 1 mV : ±5 % full scale ; ≥2 mV : ±3 % full scale Normal , Invert 300 Vrms, CAT II 5 Vrms For 1 MΩ input impedance : 1 mV/div to 20 mV/div : ±1 V; 50 m¹ 10 V/div: ±1000 V For 50 Ω input impedance : 1 mV/div to 50 mV +, - x, ÷FFT, User Defined Expression FFT: Spectral magnitude. S FFT Window to Rectangular, Hamming, Hanning or Blackman	, V/div to 500 mV/div : ±10 V ; 1 V/div to 5 V/div: ±100 V ; //div : ±1 V ; 100 mV/div to 1 V/div: ±10 V	
TRIGGER	Source Trigger Mode Trigger Type Trigger Holdoff Range Coupling Sensitivity	2 CH model: CH1, CH2, Line, EXT; 4 CH model: CH1, CH2, CH3, CH4, Line, EXT Auto(Supports Roll Mode for 100 ms/div and slower), Normal, Single Edge, Pulse Width(Glitch), Video, Pulse Runt, Rise & Fall(Slope), Time out, Alternate, Event-Delay(1 to 65,535 events), Time-Delay (Duration, 4 ns to 10 s), Bus(I ² C,SPI,UART,CAN,LIN) 4 ns to 10 s AC, DC, LF rej., HF rej., Noise rej. 1 div		
EXT TRIGGER	Range Sensitivity Input Impedance	±20 V DC to 100 MHz Approx. 100 mV ; 100 MHz to 350 MHz Approx. 150 mV 1 MΩ±3 % // 22 pF		
HORIZONTAL	Range Pre-trigger Post-trigger Accuracy	1 ns/div to 1000 s/div (1-2-5 increments); ROLL: 100 ms/div to 1000 s/div 10 div maximum 10,000,000 div max (depend on time base) ±5 ppm, about ±2 ppm increase in error per year		
X-Y MODE	X-Axis Input/Y-Axis Input Phase Shift	Channel 1, Channel 3 (for 4 CH model); Channel 2, Channel 4 (for 4 CH model) ±3° at 100 kHz		
SIGNAL ACQUISITION	Real Time Sample Rate Record Length Acquisition Mode Number of Segments	5 GSa/s half channels; 2.5 GSa/s all channels Max.200 Mpts/CH Normal, Average, Peak detect, High resolution, Single ; Average: Selectable from 2 to 512, Peak detect: 400 ps 1 to 490,000 maximum		
CURSORS AND MEASUREMENT	Cursors Automatic Measurement Cursors Measurement Auto Counter	Amplitude, Time, Gating available; Unit:Seconds(s), Hz(1/s), Phase(degree), Ratio(%) 38 sets with indicator: 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, %Flicker, Flicker Idx, FRR, FRF, FFR, FFF, LRR, LRF, LFF, Phase Voltage difference between cursors (△ V) Time difference between cursors (△ T) 6 digits, range from 2 Hz minimum to the rated bandwidth		
CONTROL PANEL FUNCTION	Autoset Save Setup Save Waveform Save Reference Waveform	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with "Undo Autoset", "Fit Screen"/" AC Priority" mode, and "Fine Scale" functions. 20 sets 20 sets 4 sets		
POWER MEASUREMENTS (Option)		Power Quality, Harmonics, Ripple, In-rush current, Switching Loss, Modulation, SOA, Transient, Efficiency, B-H curve, Control Loop Response, PSRR, Turn On/Off		
AWG	Channels Sample Rate Vertical Resolution Max. Frequency Waveforms Output Range Output Resolution Output Accuracy Offset Range Offset Resolution Sine Square/Pulse Ramp	2 200 MSa/s 14 bits 25 MHz Sine, Square, Pulse, Ramp, DC, Noise, Sinc, Gaston, Lorentz, Exponential Rise, Exponential Fall, Haversine, Cardiac 20 mVpp to 5 Vpp, HighZ; 10 mVpp to 2.5 Vpp, 50 Ω 1 mV 2 % (1 kHz) ±2.5 V, High Z; ±1.25 V, 50 Ω 1 mV Frequency Range:100 mHz to 25 MHz; Flatness(relative to 1 kHz): ±0.5 dB < 15 MHz, ±1 dB (15 MHz to 25 MHz); Harmonic Distortion:-40 dBc; Stray(Non-harmonic):-40 dBc; Total Harmonic Distortion: 1 %; \$/N Ratio:40 dB Frequency Range:100 mHz to 15 MHz; Rise/Fall time: <15 ns; Overshoot: <3 %; Duty cycle Square:50 % & Pulse:0.4 % to 99.6 %; Min. Pulse Width:30 ns; Jitter:500 ps Frequency Range:100 mHz to 1 MHz; Linearity: 1 %; Symmetry: 0 % to 100 %		
SPECTRUM ANALYZER	Frequency Range Span Resolution Bandwidth Reference Level Vertical Units Vertical Position Vertical Scale Display Average Noise Level Spurious Response Frequency Domain Trace Types Detection Methods FFT Windows	DC to 2.5 GHz(Max.) dual channel with spectrogram (based on advanced FFT). Notice: Frequency which exceeds analog front end bandwidth is uncalibrated 1 kHz to 2.5 GHz(Max.) 1 Hz to 2.5 MHz(Max.) -80 dBm to +40 dBm in steps of 5 dBm dBV RMS; Linear RMS; dBm -12 divs to +12 divs 1 dB/div to 20 dB/div in a 1-2-5 Sequence 1 V/div < -40 dBm, Avg: 16; 100 mV/div < -60 dBm, Avg: 16; 10 mV/div < -80 dBm, Avg: 16 2nd harmonic distortion < 35 dBc; 3rd harmonic distortion < 40 dBc Normal; Max Hold; Min Hold; Average (2 to 256) Sample; +Peak; -Peak; Average FFT Factor: Hanning 1.44; Rectangular 0.89; Hamming 1.30; Blackman 1.68		

SPECIFICATIONS				
LOGIC	Sample Rate	Per Channel 1G Sa/s		
ANALYZER	Bandwidth	200 MHz		
(Option)	Record Length Input Channels	Per Channel 10 M pts (max) 16 Digital (D15 to D0)		
	Trigger Type	Edge, Pattern, Pulse Width, Serial bus (I ² C, SPI, UART, CAN, LIN), Parallel Bus		
	Thresholds Quad	Settable thresholds for: D0 to D3, D4 to D7,D8 to D11 ,D12 to D15		
	Threshold Selections	TTL, CMOS (5 V,3.3 V,2.5 V), ECL, PECL,0 V ,User Defined		
	User-defined Threshold Range	±5 V		
	Maximum Input Voltage	±40 V		
	Minimum Voltage Swing	±250 mV		
	Vertical Resolution	1 bit		
FREQUENCY RESPONSE	Frequency Range	20 Hz to 25 MHz		
ANALYSIS	Input and Output Sources	Channel 1 to 2 for 2 CH model ; Channel 1 to 4 for 4 CH model		
	Number of Test Points	10, 15, 30, 45, 90 points per decade selectable for logarithm scale; 2 to 1000 points selectable for linear scale		
	Dynamic Range Test Amplitude	$>$ 80 dB (typical) 10 mVpp to 2.5 Vpp into 50 Ω , 20 mVpp to 5 Vpp into High-Z, Fixed test amplitude or custom amplitude for each decade		
	Test Results	Logarithmic or linear overlaid gain and phase plot, may also overlay with reference plots for cross comparison.		
		Test results saved in csv format for offline analysis		
	Manual Measurements	Tracking gain and phase markers		
	Plot Scaling	Auto-scaled during test		
DISPLAY SYSTEM	TFT LCD Type	10.2" TFT LCD WVGA color display		
	Waveform Update Rate	200,000 wfms/sec max.		
	Display Resolution	800 horizontal x 480 vertical pixels (WVGA)		
	Interpolation	Sin (x)/x		
	Waveform Display	Dots, Vectors, Variable persistence(16 ms to 4 s), Infinite persistence, gray and color waveforms		
	Display Graticule	8 x 10 divisions		
	Display Mode	YT,XY		
INTERFACE	RS-232C	DB-9 male connector		
	USB Port	USB 2.0 high-speed host port x 1 ; USB high-speed 2.0 device port x 1		
	Ethernet Port	RJ-45 connector, 10 M/100 Mbps with HP Auto-MDIX		
	VGA Video Port	DB-15 female connector, monitor output for display on VGA monitor		
	Optional GPIB Module	Fully programmable with IEEE488.2 compliance		
	Go/NoGo BNC	5 V Max/10 mA open collector output		
	Kensington Style Lock	Rear-panel security slot connects to standard Kensington-style lock		
	Power Supply Receptacles	±12 V/500 mA for current probe usage. 2 sets for 2 CH model; 4 sets for 4 CH model		
MISCELLANEOUS	Operating	0 °C to 50 °C, Relative Humidity ≤ 80 % at 40 °C or below; ≤ 45 % at 41 °C to 50 °C		
	Line Voltage Range	AC 100 V to 240 V, 50 Hz to 60 Hz, auto selection. power consumption:100 W		
	Multi-Language Menu	Available		
	On-Line Help	Available		
	Time Clock	Time and date, provide the date/time for saved data		
	Internal Flash Disk	800 Mega bytes Single-Level Cell flash memory		
	Installed APP	Go/NoGo, DVM, DataLog, Digital Filter, Frequency Response Analyzer, Mask, Mount Remote Disk, Demo		
	User Define Key	User can select one of the several different preset functions as shortcut key		
DIMENSIONS &	420(W) mm X 253(H) mm X 113.	,		
<u>l</u>	voluding probes & LCD display page			

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

ORDERING INFORMATION

GDS-3102A 1 GHz, 2-Channel, Digital Storage Oscilloscope GDS-3104A 1 GHz, 4-Channel, Digital Storage Oscilloscope

ACCESSORIES

Power cord x 1

GTP-501R: 500 MHz 10:1 passive probe for GDS-3102A/3104A (one per channel)

FREE DOWNLOAD

PC Software OpenWave software Driver LabView driver

DS3A-PWR Power Analysis Software DS3A-GPIB GPIB Interface DS3A-16LA 16 Channel Logic Analyzer (Factory Pre-installed) OPTIONAL ACCESSORIES

GTP-033A 35 MHz 1:1 Passive probe

Specifications subject to change without notice.

DS-3000AGD1BH

GTL-248 GPIB Cable, Double Shielded, 2000 mm

GTP-352R	350 MHz 20:1 Passive probe	GTL-110	Test lead, BNC to BNC connector
GDP-025	25 MHz High voltage differential probe	GTL-232	RS-232C cable, 9-pin female to
GDP-050	50 MHz High voltage differential probe		9-pin female
	100 MHz High voltage differential probe	GTL-246	USB 2.0 cable, A-B type,1800 mm
GCP-300	300 kHz/200 A Current probe	GRA-443	Rack Adapter Panel
	, ,	GKT-100	Deskew Fixture
GCP-500	500 kHz/150 A Current probe	GTP-1501R	1.5 GHz 10:1 Passive probe
GCP-530	50 MHz/30 A Current probe		2 MHz / 750 A Current probe

GCP-0275 2 MHz / 750 A Current probe GCP-1000 1 MHz/70 A Current probe GCP-0550 5 MHz / 500 A Current probe GCP-1030 100 MHz/30 A Current probe GCP-2525 25 MHz / 250 A Current probe

Global Headquarters

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