The GDS-2000 Series pick up signals even in the most extreme cases, powered by 1GSa/s real-time and 25GSa/s equivalent-time capture. The digital storage oscilloscope is designed for engineers and technicians who require the very best in performance, and features include:

- **Bandwidth Limit**: DC ~ 60MHz (3dB)
- **Sample Rate**: 1GSa/s (25GSa/s for ET sampling)
- **Record Length**: 25k points
- **Horizontal Scale**: 10ns/div ~ 10s/div (1-2-5 increments); ROLL: 250ms/div ~ 10s/div
- **Input Impedance**: 1M (±2%)
- **Input Coupling**: AC, DC, LF rej., HF rej., Noise rej.
- **Polarity**: Normal, Peak Detect, Average
- **Selectivity**: 5.6inch TFT color LCD display with wide viewing angle eliminates obscurity in any situation. Battery operation option gives a charge time of 8 hours (Power ON).

**Features**
- **Advanced Trigger**: Pre-trigger, modes, sensitivity, polarity, input coupling, internal/external trigger
- **Cursor Measurement**: X-Y MODE (2CH Only)
- **Time Measurement**: Autoset, Time Clock
- **Freq., Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle**: Measured with respect to actual sample points
- **pp amp avg rms hi lo max min**: Measured with respect to actual sample points
- **Keyboard & Mouse Control**: You can use your familiar mouse & keyboard, utilizing the larger PC screen.
- **Three Types of Remote Control Interface**: The RS-232C and USB interface included as standard features, and the battery power operation (optional) available for field applications.
- **Opt. 01: GPIB Interface**: (Option) Multi-Language Menu
- **Opt. 02: Battery Power Operation**: (Factory installed, includes DC Power & Battery charger circuits and Li-lon Battery pack x 2)

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Bandwidth</td>
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<td>Channels</td>
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<td>Sample Rate</td>
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<tr>
<td>Selectivity</td>
<td>5.6inch TFT color LCD display with wide viewing angle</td>
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<tr>
<td>Battery Operation Option</td>
<td>Charge time: 8 hours (Power ON)</td>
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</tbody>
</table>

**Application**

The GDS-2000 Series is designed for engineers and technicians who require the very best in performance. Whether you are designing new products in the lab or giving lessons in the classroom or performing testing projects in the factory, you are fully aware that success starts with the right equipment. The GDS-2000 Series comes along with All-In-One design, everlasting chassis, 200MHz bandwidth, 2 and 4 channel selection, TFT color LCD display, USB support on both host and slave modes, and memory and waveform transferring options.

**Front Panel Features**

- **X-Y MODE (2CH Only)**
- **Cursor Measurement**
- **Time Measurement**

**Input Options**

- **pp amp avg rms hi lo max min**

**Software Options**

- **Multi-Language Menu**
- **Battery Power Operation**

**Battery Life**

- **Charge Time**: 8 hours (Power ON)

**Power Requirements**

- **AC 100V ~ 240V, 48Hz ~ 63Hz, Auto selection**

**Contact Information**

- **INSTEK AMERICA CORP., U.S.A.**
- **U.S.A. Subsidiary**
- **INSTEK LI-TECH CORPORATION, Ltd., Taiwan**
- **Global Headquarters**
- **11900 Bayan Lepas, Penang, Malaysia.**

**Specifications subject to change without notice.**

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**For more information, visit [INSTEK](https://www.instekelectronics.com).**
A Value-Priced DSO with High Performance & Reliability

Whether you are designing new products in the lab or giving lessons in the classroom or performing testing projects in the field, you are fully aware that success starts with the right equipment. The GDS-2000 Series comes along with All-In-One family of 6 members in total. The combination of 1GSa/s sampling rate (25GSa/s for ET sampling) and 25k points record length, the 2CH and 4CH selection with TFT color display, the USB mass storage and programmability, and other features makes the GDS-2000 Series the leading edge solution for today’s lab testing and maintenance needs.

FEATURES
- 200MHz Bandwidth
- 2 and 4 channel selection
- TFT color LCD display
- USB mass storage
- 27 Auto-Measurements
- Go/NoGo
- MCT, Logic Analyzer, In-circuit Emulator
- Offline waveform storage
- Remote control
- 3.5ns Approx. rise time
- 5.8ns Approx. fall time
- Ground, AC, DC & AC coupled signal input
- 2M fence
- 3 at 100kHz
- 3 at 100kHz
- 5.6 inch TFT color display with wide viewing angle eliminates obscurity in any situation.

DCF & USB Flash Drive
- DCF & USB flash drive transfer data quickly and easily between USB flash drive, which guarantees almost unlimited amount of data for the user to access. The DCF & USB flash drive provides a variety of features such as save waveform, printout of display image, color with grayscale, RGB, and also applications for fast data handling and present waveform transfer to the data analysis software.

A variety of measurement shortcuts reduce repetitive manual operations and save your precious time. Autoset makes measuring fast and easy. Time measurement, peak detection, voltage measurement, frequency measurement, and many other functions are available to reduce the time required for measurements. The DCF & USB flash drive is a permanently storage media, and it is not limited to use in the lab; it is applicable to use in the field for easily carrying and transferring data.

The GDS-2000 Series, using internal controller boards and Li-lon Battery pack x 2, makes up a complete system, which combines the advantages of compact size and high performance. The dual 16-bit analog A/D converters and 1GSa/s sampling rate (500MSa/s for ET sampling), make up a high-speed signal processing board. The combination of these features makes the GDS-2000 Series the leading edge solution for today’s lab testing and maintenance needs.

The GDS-2000 Series is fully programmable with IEEE 488.2 compliance, various trigger sources, and remote control, and has all the powerful Auto-Measurement features such as offline waveform storage, color printout, and remote control. Battery power operation and all the powerful Auto-Measurement features make the GDS-2000 Series a versatile solution for today’s lab testing and maintenance needs.

SPECIFICATIONS
- Bandwidth: 200MHz
- Sample Rate: 1GSa/s (25GSa/s for ET sampling)
- Record Length: 25k points
- Time Measurement: Freq, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle
- AC, DC, LF rej., HF rej., Noise rej.
- DC ~ 25MHz: Approx. 0.5div or 5mV
- AC, DC ~ 30MHz: ~ 50mV
- DC ~ 60MHz (3dB): ~ 100mV
- DC ~ 100MHz (3dB): ~ 200mV
- Accuracy: 2%
- RMS and Peak detection
- DC, AC, LF rej., HF rej., Noise rej.
- 300V (DC+AC peak), CATII
- DC ~ 20MHz (3dB): 2mV/div ~ 20mV/div : 0.5V ; 50mV/div ~ 200mV/div : 5V ; 500mV/div ~ 2V/div : 50V ; 5V/div : 300V
- 300V (DC+AC peak), CATII
- 20MHz (3dB)
- 2mV/div ~ 20mV/div : 0.5V ; 50mV/div ~ 200mV/div : 5V ; 500mV/div ~ 2V/div : 50V ; 5V/div : 300V
- Input Coupling: AC, DC & Ground
- Normal & Invert
- Maximum Input: 20MHz (3dB)
- Internal power supply: 100 to 240VAC/50 to 60Hz
- Power Consumption: 15W
- Operating Time: 3 hours, depending on operating condition
- Operating Temp.: 0°C to 40°C
- Relative Humidity: 90%
- Dimensions: 430 x 172 x 380 x 172
- Weight: 5kg
- Power Source: Line Voltage Range: 90VAC to 264VAC
- GPIB Interface (Optional)
- Fully programmable with IEEE 488.2 compliance
- DB 9-pin male DTE RS-232 interface
- USB Interface
- GPIB Interface
- USB Host Connector Transfers Data Quickly and Easily between USB Flash Drive, which Guarantees Almost Unlimited Amount of Data for the User to Access. The USB Host Connector is a permanently storage media, and it is not limited to use in the lab; it is applicable to use in the field for easily carrying and transferring data.

In summary, the GDS-2000 Series is an ideal choice for any lab or field testing environment due to its high performance and reliability.
**SELECTION GUIDE**

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<tr>
<td>GDS-2104</td>
<td>100MHz, 4-channel, Color LCD Display DSO</td>
</tr>
<tr>
<td>GDS-2064</td>
<td>60MHz, 4-channel, Color LCD Display DSO</td>
</tr>
</tbody>
</table>

**RECORD LENGTH**

- Maximum Points: 25000
- Waveform Memory: Approx. 1.75ns

**INTERFACE**

- GPIB and RS-232C Interface
- USB Host/Device

**ADVANCED TRIGGER**

- Automatic Measurements: Edge, Pulse Width, Video, Auto Trigger
- 27 Automatic Measurements

**DISPLAY DEVICE**

- 5.6 inch TFT LCD Display

**CHANNELS**

- 4 Channels

**SPECIFICATIONS**

- **Sensitivity:**
  - Channel 1: 25MHz ~ 60/100/200MHz: Approx. 1div or 10mV
  - Auto-Level, AUTO, NORMAL, SINGLE, TV, Edge, Pulse Width Time-delay (2CH Only), Event-delay (2CH Only)

- **Modes:**
  - Auto-Level, AUTO, NORMAL, SINGLE, TV, Edge, Pulse Width Time-delay (2CH Only), Event-delay (2CH Only)

- **Samples per second:**
  - 1GSa/s

- **Sampling Rate:**
  - 25GSa/s

- **Input Impedance:**
  - 1MΩ

- **Input Attenuation:**
  - 10x, 1x, 100x

- **Time Interval:**
  - 1ns

- **Time Base:**
  - 50MHz, 100MHz, 200MHz, 60MHz

- **Record Length:**
  - Maximum: 25000

- **Points of Waveform Memory:**
  - Approx. 1.75ns

- **Remote Control:**
  - PC Remote Control Software for USB, RS-232C, and GPIB

- **Advanced Triggering:**
  - Edge, Pulse Width, Video, Auto Trigger

- **Automatic Measurements:**
  - 27 Automatic Measurements

- **Points Record Length Maximum:**
  - Optional

- **Language Support:**
  - Multi-Language, FFT, Go/NoGo, Auto Setup Sequence, 27 Auto-Measurements

- **Program and Play:**
  - Automatically runs predefined sequence and setup

- **Data Transfer and Printout:**
  - External devices in case of detection
  - Program and play feature automatically runs predefined sequence and setup

- **Material:**
  - Rich selections of bandwidth and channel, 200/100/60MHz and 2/4ch, cover major applications in laboratories, production in an accurate way (above right figure).

- **More:**
  - Much-desired mobility in rapidly changeable environments.
  - Battery power operation feature extends GDS-2000 Series market coverage to the field application areas.
  - AC power is not available. After full charge, the two charger circuits and Li-lon Battery pack x 2)
  - Opt. 02: Battery Power Operation
  - Transformer (Available in all models)
  - Multi-Language, FFT, Go/NoGo, Auto Setup Sequence, 27 Auto-Measurements

- **Language:**
  - Multi-Language

- **Remote:**
  - Remote Control Software for USB, RS-232C, and GPIB

- **Dimensions:**
  - 560 x 142 x 310 (W x H x D) mm, Approx. 4.3kg

- **Line Voltage Range:**
  - 90V - 264V, 45Hz - 65Hz

- **Display Brightness:**
  - 8 bits

- **Display Graticule:**
  - 8 bits

- **TFT LCD Type:**
  - 5.6 inch

- **Auto Counter:**
  - 8F

- **Cursors Measurement:**
  - Up to 20 sets of measurement conditions

- **Time Measurement:**
  - 8 bits

- **8 Bits, of NO.2 Building, No.889 Yishan Road, Shanghai China

- **ACQUISITION**

  - **Channels:**
    - 4 Channels

  - **Model:**
    - GDS-2202/2204
    - GDS-2002

  - **Ordering Information:**
    - GDS-2064  60MHz, 4-channel, Color LCD Display DSO
    - GDS-2104  100MHz, 4-channel, Color LCD Display DSO
    - GDS-2202  200MHz, 2-channel, Color LCD Display DSO

  - **Languages accepted:**
    - IEEE 488.2 standard

  - **PC Software:**
    - Proprietary PC software with GUI operation, downloadable from GW Instek website

  - **Presentations, Panel Setting for Saving and Restoring System Setup, and Waveform Configuration (*.csv) for Further Analysis

  - **USB Host/Device:**
    - Transfer data quickly and easily between USB flash drive, which guarantees almost unlimited amount

  - **Data Transfer:**
    - Up to 20 sets of measurement conditions

  - **Program and Play Feature:**
    - Automatically runs predefined sequence and setup

  - **Data Transfer and Printout:**
    - External devices in case of detection

  - **Program and Play Feature:**
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  - **Material:**
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  - **More:**
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  - **Battery Power Operation Feature:**
    - Extends GDS-2000 Series market coverage to the field application areas.

  - **AC Power:**
    - Not available. After full charge, the two charger circuits and Li-ion Battery pack x 2

  - **Opt. 02:**
    - Battery Power Operation

  - **Transformer:**
    - Available in all models

  - **Multi-Language:**
    - FFT, Go/NoGo, Auto Setup Sequence, 27 Auto-Measurements

  - **Language Support:**
    - Multi-Language

  - **Remote Control Software:**
    - For USB, RS-232C, and GPIB

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    - 8 bits

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  - **Material:**
    - Rich selections of bandwidth and channel, 200/100/60MHz and 2/4ch, cover major applications in laboratories, production in an accurate way (above right figure).

  - **More:**
    - Much-desired mobility in rapidly changeable environments.
**FEATURES**

- **USB Port**: USB 2.0 Host/Device, full speed
- **Display Resolution**: 8 x 10 divisions; 8 x 12 divisions (menu off)
- **Auto Counter**: 27,000 counts
- **Time Measurement**: 2000 divisions; 20,000 divisions
- **Voltage Measurement**: 6 digits
- **Peak Detection**: 2000 divisions; 20,000 divisions
- **Input Impedance**: CH1, CH2, CH3, CH4, Line for GDS-2064, GDS-2104, GDS-2204
- **Bandwidth Limit**: 20MHz (3dB)
- **Sample Rate**: 25GSa/s maximum
- **Time Clock**: 600x10 divisions; 600x12 divisions (menu off)
- **Memory**: 25k points record depth
- **Go/NoGo Output**: 2
- **Dig. Indicators**: 12
- **Performance & Reliability**: Factory installed, include additional DC Power & Battery

**ORDERING INFORMATION**

- **Model**: GDS-2062, GDS-2064
- **Frequency Range**: 100MHz, 200MHz
- **Environmental Conditions**: operating: 0°C to 40°C; storage: -20°C to 60°C
- **Power Source**: AC 100V ~ 240V, 48Hz ~ 63Hz, Auto selection
- **Dimensions**: 283 x 215 x 53mm, Approx. 3.5kg
- **Dimensions**: 332 x 249 x 64mm, Approx. 4.7kg

**SPECIFICATIONS**

- **Sampling Rate**: 1GSa/s high sampling rate and 25k point deep memory give much detailed view into the target waveforms.
- **Auto Save**: Autoset of GDS-2000 Series lets users view more signal details on the screen at the same time. The TFT Color LCD display of 27 Automatic Measurements
- **Online Help Function**: combination extends the GDS-2000 Series application range.
- **Function Keys**: The online help function allows users to access help information without the need for an external help file.
- **Multi-Language Support**: all non-repetitive signal. When it comes to the repetitive waveform, the combination of repetitive waveform cycles, the ET Sampling Technology accurately samples the entire waveform instead of using a single sample point for each cycle.
- **USB Device**: PC Remote Control
- **GPIB and RS-232C Interface**: USB Device : PC Remote Control
- **PC Remote Control Software for USB, RS-232C, and GPIB**: Multi-Language Support
- **Data Storage & Transfer**: Saves waveform data, screen image and the screen record as English, Traditional Chinese, Simplified Chinese etc. This environment for multicultural joint-projects.
- **Data Storage & Transfer**: Saves waveform data, screen image and the screen record as English, Traditional Chinese, Simplified Chinese etc. This environment for multicultural joint-projects.
- **USB PRINTING SUPPORT**: Any other button to get its instructions on the screen. GDS-2000 Series makes the 4 Channel inputs more meaningful.
- **Battery Power Operation**: When the setup gets transferred to another GDS-2000 Series, switching is done by saving and recalling setup files.
- **Battery Power Operation**: When the setup gets transferred to another GDS-2000 Series, switching is done by saving and recalling setup files.
- **Fully Programmable**: With IEEE 488.2 compliance
- **Self-Calibration**: Whether you are designing new products in the lab or giving lessons in the classroom or performing testing projects in the field.
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- **Go/NoGo Output**: 2
- **Dig. Indicators**: 12
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**FCC CERTIFICATION**

- **CE Marking**: Located in the upper left corner of the product.
- **UL Information**: UL 458, 481, 311, 312, 314, 315, 316, 317, 318, 319

**INFORMATION**

- **Connection**: GDS-2000 Series waveform data, screen image and the screen record as English, Traditional Chinese, Simplified Chinese etc. This environment for multicultural joint-projects.
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- **Battery Power Operation**: When the setup gets transferred to another GDS-2000 Series, switching is done by saving and recalling setup files.
### Key Features

- **GPIB Interface (Option)**
  - DB 9-pin male DTE RS-232 interface
  - 5V Maximum/10mA TTL Open Collector Output
  - IEEE 488.2 standard

- **RS-232 Interface**
  - 9-pin female DTE RS-232 interface
  - 5V Maximum/1mA TTL Open Collector Output

- **USB Host : Flash Drive Storage and Color Printout with (optional)**
  - 128 MB Flash Drive Storage
  - USB host and slave connection allows data save and recall, screen image printout, and remote control.

### Specifications

- **Display Brightness**
  - Adjustable

- **Display Resolution**
  - 8 Bits

- **Save Waveform**
  - 20 div maximum

- **Delay Measurement**
  - 20 div maximum

- **Range**
  - 10 MHz, 20 MHz, 50 MHz, 100 MHz, 200 MHz

- **Sensitivity**
  - Normal, Peak Detect, Average

- **Coupling**
  - Normal, DC

- **Offset Range**
  - 20 MHz (3dB)

- **Maximum Input**
  - 1 M    2%, ~16pF

- **Rise Time**
  - 5.8ns Approx.

- **Bandwidth**
  - 100 MHz, 200 MHz

- **Performance & Reliability**
  - Factory installed, include additional DC Power & Battery charger circuits and Li-lon Battery pack x 2 )

### Useful Software Functionality

- **ON-LINE HELP AND MULTI-LANGUAGE SUPPORT**

- **APPLICATIONS**
  - Waveform Analysis
  - Logic Analysis
  - Timing Measurements
  - AC/DC Measurements
  - Mixed Signal Measurements
  - Advanced Triggering including Edge Pulse Width, Videos, Parking and Trading
  - Touch Sensitive Navigation - up, down, left, and right
  - USB-Host: Flash Drive Storage and Color Printer access
  - Display Brightness
  - Display Resolution
  - Save Waveform
  - Delay Measurement
  - Range
  - Sensitivity
  - Coupling
  - Offset Range
  - Maximum Input
  - Rise Time
  - Bandwidth

### Applications

- **In Digital Electronics:**
  - Logic Analysis
  - Timing Measurements
  - AC/DC Measurements
  - Mixed Signal Measurements
  - Advanced Triggering including Edge Pulse Width, Videos, Parking and Trading

- **In Analog Electronics:**
  - Waveform Analysis
  - Logic Analysis
  - Timing Measurements
  - AC/DC Measurements
  - Mixed Signal Measurements
  - Advanced Triggering including Edge Pulse Width, Videos, Parking and Trading

- **In Communications:**
  - Frequency Counter
  - Go/NoGo
  - Multi-Language Screen Menu
  - Online Help
  - Setup Sequence are all standard features

### Technical Information

- **GDS-2064**
  - 60MHz

- **GDS-2102/2104**
  - 100MHz

- **GDS-2000 Series**
  - 200MHz

- **Probe-GTP-060A**
  - 60MHz x10/x1 Switchable Passive Probe x 4 for GDS-2064

- **Probe-GTP-100A**
  - 100MHz x10/x1 Switchable Passive Probe x 4 for GDS-2104

- **Probe-GTP-250A**
  - 250MHz x10/x1 Switchable Passive Probe x 4 for GDS-2204

### Battery Power Operation

- **Battery Life:**
  - 5 hours Approx.

- **Display:**
  - TFT color LCD display with wide viewing angle eliminates obscurity in any situation.

- **Power Source:**
  - AC adapter: 100V-240V, 50/60Hz, 200W (Factory installed, include additional DC Power & Battery charger circuits)

- **Probe Compensation:**
  - Helps maintaining maximum accuracy even when environment or testing accessories changes.

- **Probe Selection:**
  - Switchable Passive Probe x 4

### Remote Control Software

- **USB, RS-232C, and GPIB Interface**

- **Battery Power Operation**

- **Battery Life:**
  - 5 hours Approx.

- **Display:**
  - TFT color LCD display with wide viewing angle eliminates obscurity in any situation.

- **Power Source:**
  - AC adapter: 100V-240V, 50/60Hz, 200W (Factory installed, include additional DC Power & Battery charger circuits)

- **Probe Compensation:**
  - Helps maintaining maximum accuracy even when environment or testing accessories changes.

### USB Host : Flash Drive Storage and Color Printout

- **USB Host:**
  - 128 MB Flash Drive Storage

- **Color Printer Access:**
  - USB host and slave connection allows data save and recall, screen image printout, and remote control.

### GPIB and RS-232C Interface

- **USB Interface:**
  - Flash Drive Storage and Color Printout with (optional)

- **GPIB Interface (Option):**
  - DB 9-pin male DTE RS-232 interface
  - 5V Maximum/10mA TTL Open Collector Output

- **RS-232 Interface:**
  - 9-pin female DTE RS-232 interface
  - 5V Maximum/1mA TTL Open Collector Output

### ON-LINE HELP AND MULTI-LANGUAGE SUPPORT

- **ON-LINE HELP:**
  - Add and subtract math operation, with 4 types of FFT are also provided: flattop, blackman, hanning, and

- **MULTI-LANGUAGE SUPPORT:**
  - Flattop, blackman, hanning, and

### Applications

- **In Digital Electronics:**
  - Logic Analysis
  - Timing Measurements
  - AC/DC Measurements
  - Mixed Signal Measurements
  - Advanced Triggering including Edge Pulse Width, Videos, Parking and Trading

- **In Analog Electronics:**
  - Waveform Analysis
  - Logic Analysis
  - Timing Measurements
  - AC/DC Measurements
  - Mixed Signal Measurements
  - Advanced Triggering including Edge Pulse Width, Videos, Parking and Trading

### Technical Information

- **GDS-2064**
  - 60MHz

- **GDS-2102/2104**
  - 100MHz

- **GDS-2000 Series**
  - 200MHz
## GDS-2000 Series

### Overview

The GDS-2000 Series is a series of digital storage oscilloscopes designed for professional and industrial applications. They are equipped with advanced features such as high-speed sampling, a large color display, and versatile triggering options. The series includes models with different bandwidths (60MHz, 100MHz, 200MHz) and channel configurations (2CH, 4CH). These oscilloscopes are used in various industries, including electronics, automotive, and aerospace, for troubleshooting, testing, and development.

### Features

**High-Speed Sampling**
- 1GSa/s real-time sampling rate
- 25GSa/s equivalent-time sampling rate

**Display and Interface**
- Large 5.6-in TFT Color Display
- 14-bit vertical resolution

**Triggering**
- Advanced triggering including edge, pulse width, video, and time delay
- Event delay (for 2CH only)

**Math Functions**
- Three math functions including “+”, “-”, and “FFT”

**Portability and User Interface**
- IEEE-based remote control commands
- Remote access
- Portability and friendly user interface
- Online help

**Data Transfer and Printout**
- Data transfer and printout
- Data transfer and printout
- Data transfer and printout

**Power Source**
- Battery power operation
- USB host/device
- GPIB

**Accurate Measurement**
- 27 automatic measurements

**Applications**
- Pick up signals in the most extreme cases, powered by 1GSa/s real-time and 25GSa/s equivalent time sampling rate combined with 3 types of acquisition modes: sample, peak detect, and average.

### Specifications

#### Bandwidth
- DC ~ 25MHz: Approx. 0.5div or 5mV
- 30M ~ 60/100/200MHz: ~100mV

#### Vertical Resolution
- 1000 div

#### Sample Rate
- 1ns/div ~ 10s/div (1-2-5 increments); ROLL: 250ms/div ~ 10s/div

#### Sensitivity
- 2mV/div ~ 5V/div (1-2-5 increments)

#### Accuracy
- ±0.1% (Basic), ±0.01% (Autoset)

#### Resolution
- DC ~ 30MHz: ~50mV; 30M ~ 60/100/200MHz: ~100mV

#### Coupling
- Normal & Invert

#### Input Impedance
- 1M 2% , ~ 16pF

#### Bandwidth
- DC ~ 25MHz: Approx. 0.5div or 5mV

#### Triggering
- Auto-Level, AUTO, NORMAL, SINGLE, TV, Edge, Pulse Width Time-delay (2CH Only), Event-delay (2CH Only)

#### Cursors and Signal (2CH Only)
- CH1, CH2, CH3, CH4, Line for GDS-2064, GDS-2104, GDS-2204

#### Option
- GPIB Interface (Option)
- Valued Feature Plus

**OPTION**
- GDS-2202 200MHz, 2-channel, Color LCD Display DSO
- GDS-2102 160MHz, 2-channel, Color LCD Display DSO
- GDS-2064 200MHz, 4-channel, Color LCD Display DSO

**OPTIONAL ACCESSORIES**
- Power cord
- RS-232C
- GPIB Interface (Option)

**SPECIFICATIONS**

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- GDS-2202 200MHz, 2-channel, Color LCD Display DSO
- GDS-2102 160MHz, 2-channel, Color LCD Display DSO
- GDS-2064 200MHz, 4-channel, Color LCD Display DSO

**OPTIONAL ACCESSORIES**
- Power cord
- RS-232C
- GPIB Interface (Option)
KEY FEATURES

- Multi-Functionally: Supports various trigger modes and can display waveform details in various formats.
- Rich Selections: Provides a variety of bandwidth and channel options suitable for different applications.
- Remote Access: Enables control and monitoring from remote locations.
- Setup Recovery and Transfer: Facilitates the transfer and recovery of system settings.
- Advanced Triggering: Offers advanced triggering features for precise and accurate waveform capture.
- Measurement Functions: Provides comprehensive measurement capabilities.
- Acquisition Rate: Offers high-speed data acquisition with programmable memory depth.
- Language Support: Supports multiple languages for user convenience.
- USB Connectivity: Supports USB connectivity for data transfer and remote control.

MECHANICAL SPECIFICATIONS

- Dimensions & Weight: 276x277x127 mm, 2.5 kg
- Power Source: 900 Hz to 120 Hz AC, 100 V to 240 V AC
- Operating Environment: 0 to 40°C, 20% to 80% RH
- Display Characteristics: 7" color LCD display
- Memory Depth: 2,000 points
- Sample Rate: 1 GS/s
- Trigger Levels: 1.6 Vp-p

GDS-2000 Series

- GDS-2064: 60 MHz, 4-channel, Color LCD Display DSO
- GDS-2102: 100 MHz, 2-channel, Color LCD Display DSO
- GDS-2202: 200 MHz, 2-channel, Color LCD Display DSO
- GDS-2204: 200 MHz, 4-channel, Color LCD Display DSO

A Value-Priced DSO with High Performance & Reliability

Whether you are designing new products or altering existing ones, the GDS-2000 Series ensures you achieve high performance. The GDS-2000 Series comes equipped with advanced design, including 1 GS/s sampling rate, 200 Msample depth, and 25 GSa/s equivalent time base. It also features a multi-language user interface, allowing you to use your familiar mouse & keyboard, utilizing the larger PC screen. Three types of remote control interface are accepted: IEEE 488.2 standard, Proprietary PC software with GUI operation, downloadable from GW Instek website.

Remote Access

- Setup Recovery and Transfer
- Remote Access
- Printout of display image, color with grayscale
- Presentations, panel setting for saving and restoring system setup, and waveform configuration (*.csv) for further analysis
- Handles three types of data: display image (*.bmp) for viewing waveform shape and pasting into documents and USB flash drive storage, color printout, and remote control.
- Battery power operation and all the powerful Auto-Measurement functions, including Delay Measurement, Frequency Counter, Go/NoGo, Multi-Language Screen Menu, On-Line Help, and Setup Sequence are all standard features.

Additional Accessories

- GRA-405: Rack Mounting, 19" 4U Type
- Probe-GTP-250A: 250 MHz x10/x1 Switchable Passive Probe x 4 for GDS-2204
- Probe-GTP-100A: 100 MHz x10/x1 Switchable Passive Probe x 2 for GDS-2102
- Probe-GTP-060A: 60 MHz x10/x1 Switchable Passive Probe x 4 for GDS-2064
- GTL-242: USB Cable, USB 1.1 A-B TYPE CABLE, 4P, 1800 mm
- GTL-232: RS-232C Cable, 9-pin Female to 9-pin Female, Null Modem for USB Host / USB Device
- GRA-315: 19" 4U Type Panel Mounting Kit
- STE-CB1: 300 V (DC+AC peak), CATII AC charger circuits and Li-lon Battery pack x 2 (Factory installed, include additional DC Power & Battery charger circuits and Li-lon Battery pack x 2)

APPLICATIONS

The GDS-2000 Series series is designed specifically for the following applications:

- Metrology and manufacturing
- Research and development
- Education and training
- Industrial and control systems
- Medical and scientific research

The GDS-2000 Series series is ideal for use in a variety of applications, including high-speed data acquisition, measuring signal information, and presenting waveform data. The series is equipped with advanced triggering features, allowing for precise and accurate waveform capture. It also features a large, color LCD display, providing a clear view of waveform details.

The GDS-2000 Series series is a cost-effective solution for high-performance DSO applications. It offers advanced triggering features, comprehensive measurement capabilities, and remote access, making it ideal for a wide range of applications. Whether you are designing new products or altering existing ones, the GDS-2000 Series ensures you achieve high performance.
The GDS-2000 Series, carrying bandwidths of 200MHz, 100MHz and 60MHz and inputs of 2 and 4 channels, makes up the whole spectrum of your test and measurement needs. The GDS-2000 Series digital storage oscilloscope, you could easily make your job done.

Whether you are designing new products in the lab or giving lessons in the classroom or performing testing projects in the factory, you can easily make your tasks done. The 1GSa/s sampling rate, the 2CH and 4CH selection with TFT color display, the USB mass storage and programmability, the GDS-2000 Series makes up a complete solution for your measurement requirements.

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