### OSCILLOSCOPES

**100MHz CURSOR READOUT ANALOG OSCILLOSCOPE**

The GOS-6100 Series is a 100MHz, two-channel, dual-sweep, portable oscilloscope for general purpose use. A microprocessor-based operating system controls most of the functions of the instrument, including cursor readout and digitized panel setting.

On-screen alphanumeric readout and cursor function for voltage, time, frequency and phase measurement provide extraordinary operational convenience. The advance Time Base Auto-ranging function conveniently acquires waveforms at the push of button (GOS-6102/6103C). Ten different user defined instrument settings (GOS-6100/GOS-6103C) can be saved and recalled without restriction.

The vertical deflection system has two input channels. Each channel has 11 basic deflection factors from 2mV to 5V per division. The horizontal deflection system provides single, dual or delayed sweeps from 0.5 to 50ms per division (delayed sweep, 50ms to 50ms per division). The trigger system provides stable triggering over the full bandwidth of the vertical deflection system.

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The unique, easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate. The on-screen cursors provide seven measurement functions (A, B, C, D, θ, θ, tan θ).

![Cursor Readout Analog Oscilloscope](image)

Rear Panel

![GOS-6112](image)

![GOS-6103/6103C](image)

**SPECIFICATIONS**

**SCANNER**

- Type: Square rectangular type with internal grid rate: 9%, 10%, 99% and 90% markers
- Accelerating Potential: 164 V approx. (GOS-6132/GOS-6132C), 10V approx. (GOS-6112)
- Oscillation: Continuously adjustable (GOS-6109/GOS-6109C)
- Sensitivity: 0.5mV or more
- Maximum-input voltage: 10V (DC + AC peak) at 1kHz or less

**TIMEBASE**

- Time Base: 100MHz
- Resolution: 1/100 div
- Trigger: source, coupling, slope, level, TV-V, TV-H
- Horizontal: s/div(MTB, DTB), UNCAL, x 10MAG, delay time, Hold-off
- Vertical: V/div(CH1,CH2),UNCAL,ALT/CHOP/ADD,INV, probe factor,AC/DC/GND

**CURSOR MODE**

- Trigger Mode: AUTO, NORM, TV
- Trigger Source: CH1,CH2, EXT
- Trigger Coupling: AC, DC, HF, LER
- Trigger Slope: “+” or “−” polarity or Tri polarity

**TYPICAL PERFORMANCE**

<table>
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<th>Specification</th>
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<td>Time Base</td>
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<td>Accuracy</td>
<td>±0.1% at 1kHz, ±0.2% at 10kHz</td>
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<tr>
<td>Measuring Sensitivity</td>
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</table>

**OPTIONAL ACCESSORIES**

- GOS-6112: 330(W) x 430(D) mm (120V Input Socket)
- GOS-6103/6103C: 310(W) x 150(H) x 455(D) mm ; Approx. 9kg
- AC 100V/120V/230V ±10% , 50/60Hz

**Measuring Information**

- **GOS-6112**: 100MHz, 2-channel, Analog Oscilloscope
- **GOS-6103/6103C**: 100MHz, 2-channel, Analog Oscilloscope with 100MHz Frequency Counter

**Dimensions & Weight**

- **GOS-6112**: 330(W) x 430(D) mm ; Approx. 9kg
- **GOS-6103/6103C**: 310(W) x 150(H) x 455(D) mm ; Approx. 9kg
The GOS-6100 Series is a 100MHz, two-channel, dual-sweep, portable oscilloscope for general purpose use. A microprocessor based operating system controls most of the functions of the instrument, including cursor readout and digitized panel setting.

On-screen alphanumeric readout and cursor function for voltage, time, frequency and phase measurement provide extraordinary operational convenience. The advance Time Base Auto-rang function conveniently acquires waveforms at the push of button (GOS-6102/6103C). Ten different user defined instrument settings (GOS-6103/6103C) can be saved and recalled without restriction.

The vertical deflection system has two input channels. Each channel has 11 basic deflection factors from 0.5s to 50ns per division (delayed sweep, 50ms to 50ns per division). The trigger system provides stable triggering over the full bandwidth of the vertical deflection system.

The rear panel provides a convenient acquisition of waveforms at the push of button (GOS-6103/6103C). Ten different user defined instrument settings (GOS-6103/6103C) can be saved and recalled without restriction.

The unique, easy-to-use cursor and numerical readouts make waveform observation and measurement easier, faster and more accurate. The on-screen cursors provide seven measurement functions (\(V, V\%, V_{dB}, T, 1/T, T\%\), \(\Delta\)).

### CURSOR MEASUREMENT FUNCTIONS

**Type**
- X-Y OPERATION
- TRIGGER
- VERTICAL SYSTEM
- CRT

### SPECIFICATIONS

**Features**
- 100MHz Bandwidth, Dual Channel, Delayed Sweep
- Built-in 6 digits Universal Counter (GOS-6103C)
- 10 Sets Memory for Front Panel Setting Save & Recall (GOS-6103/GOS-6103C)
- Time Base Auto-rang (GOS-6103/GOS-6103C)
- Cursor Readout with 7 Measurements
- Panel Setup Lock of Digital-Control Functions
- Buzzer Alarm
- LED Indicators
- TV Synchronization
- Trigger Signal Output
- Z-Axis Modulation Input
- SMD Technology, High Stability and Reliability

### OSCILLOSCOPES

**GOS-6112**
- **GOS-6103/6103C**

**100MHz CURSOR READOUT ANALOG OSCILLOSCOPE**

**Calibrator Output**
- 1kHz Square wave, 2Vpp

**Trigger Signal Output**
- 2Vpp

**Phase Error**
- 3\% or less from DC~50kHz

**X-axis Bandwidth**
- DC~500kHz (-3dB)

**Max. External Input Voltage**
- 400V (DC+AC peak) at 1kHz or less

**Signal Delay**
- 3.5ns (2mV/div:17.5ns)

**Rise Time**
- 3.5ns (2mV/div:17.5ns)

**Bandwidth (-3dB)**
- DC~100MHz (2mV/div:DC~20MHz)

**Sensitivity Accuracy**
- 3% (5div at the center of display)

**B(delay) Sweep Time**
- 50ns~0.5s/div, continuously variable (UNCAL)

**A(main) Sweep Time**
- 50ns~0.5s/div, continuously variable (UNCAL)

**Horizontal Modes**
- MAIN(A), ALT, DELAY(B)

**Dynamic Range**
- 8 div at 100MHz (GOS-6103/GOS-6103C)

**Effective Cursor Range**
- 1/100 div

**Cursor Resolution**
- 1/100 div

**Cursor Measurement Function**
- Voltage, Voltage percentage, Voltage dB, Time, Time percentage, Frequency, Phase

**Measuring Sensitivity**
- 2V/div (Measuring source selected from CH1 and CH2 in synchronous signal source)

**Display Options**
- TV-V, TV-H

**Trigger Coupling**
- DC

**Horizontal Deflection System**
- Single, dual or delayed sweeps

**Vertical Deflection System**
- Two input channels. Each channel has 11 basic deflection factors from 0.5s to 50ns per division (delayed sweep, 50ms to 50ns per division). The trigger system provides stable triggering over the full bandwidth of the vertical deflection system.

**Trigger System**
- Provides stable triggering over the full bandwidth of the vertical deflection system.

**Trigger Coupling**
- AC, DC, GND

**Trigger Source**
- TV-V, TV-H

**Trigger Slope**
- “+” or “-” polarity or Tri polarity

**Threshold**
- AUTO, NORM

**Sensitivity**
- Continuously adjustable

**Time/DIV Auto Range**
- Provided (GOS-6103/GOS-6103C)

**Parameter Function**
- Panel Setup Save & Recall Provided

### OPTIONAL ACCESSORIES

- GTC-001 : 50Hz~100MHz (10 : 1/1 : 1) Switchable Passive Probe  (one per channel)
- GTP-100A-2 : 100MHz (10:1/1:1) Switchable Passive Probe  (one per channel)
- User manual x 1, Power cord x 1, Test Lead, BNC-BNC Heads

### POWER SOURCE

- AC 100V/120V/230V ±10%, 50/60Hz

### DIMENSIONS & WEIGHT

- 480 x 194 x 457 (mm) Approx. 9.6 kg

### ACCESSORIES

- User manual x 1, Power cord x 1, Test Lead, BNC-BNC Heads

### TELEPHONE

- 722-732 8888
- Fax: 732-222 8888

### Classe de sécurité

- IEC 61010-1:2001 (CAT III 600V, CAT IV 300V)

### Compliance Information

- CE
- FCC Part 15, Class A
- CE, EN 55022, Class A
- CE, EN 50082-1
- CE, EN 50020
- CE, EN 50081-1
- CE, EN 50082-2
- CE, EN 50081-2
- CE, EN 50020
- CE, EN 50081-3
- CE, EN 50020

### Calibration

- Regular Calibration, 1 Year

### Guarantee

- One Year

### Production Date

- Made in Korea

### Made to Measure.

- Good Will Instrument Co., Ltd.