

GOS-6051/GOS-6050 (50MHz)  
GOS-6031/GOS-6030 (30MHz)



**FEATURES**

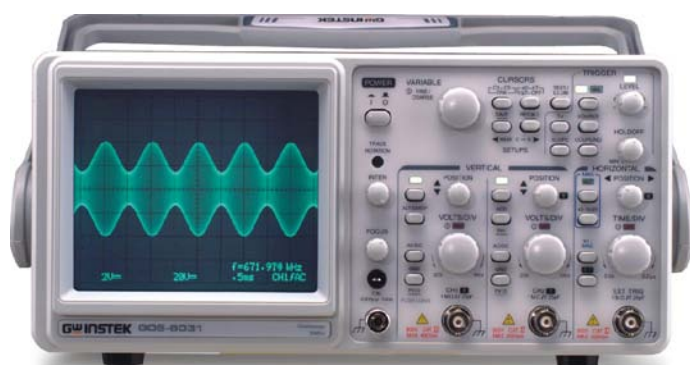
- \* 2 Channels, 4 Traces:  
DC~50MHz Bandwidth (GOS-6051/6050)  
DC ~ 30MHz Bandwidth (GOS-6031/6030)
- \* Vertical Sensitivity : 1mV/div ~ 20V/div
- \* CRT Readout
- \* Cursor Measurement, 6 Digit Frequency Counter, 10 sets Memory for Front Panel Setting Save & Recall (GOS-6051/6031)
- \* ALT MAG Function (x 5, x 10, x 20)
- \* Vertical Mode Triggering
- \* TV Synchronization
- \* CH1 Signal Output, Z- axis Input
- \* Buzzer Alarm & LED Indicators
- \* Compact size(275Wx130Hx370Dmm)and Front Panel Layout Groups for Easy to Use

The GOS-6000 Series Analog Oscilloscopes provides a remarkable combination of high performance and compact design in a bandwidth range of 30 and 50 MHz. Coupled with various trigger functions, waveforms can be acquired and observed in diverse application fields. Signals can be magnified by a ratio of x5, x10 and x20 using the ALT MAG function. Together with the Cursor Readout and Frequency Counter functions (GOS-6051/6031), the GOS-6000 Series offers tremendous value for money for testing and analysis.



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SPECIFICATIONS																					
<b>CRT</b>																					
Type	6-inch rectangular type with internal graticule																				
Accelerating Potential	0%, 10%, 90%, 100% markers. 8x10 div(1div=1cm)																				
Illumination	GOS-6051/6050:approx.10kV; GOS-6031/6030 : approx. 2kV																				
Trace Rotation	Provided (GOS-6051/6031)																				
Z-axis Input	Provided																				
	Sensitivity : at least 5V ; Polarity : positive going input decrease intensity																				
	Usable frequency range : DC to 2MHz ;																				
	Max. input voltage : 30V (DC + AC peak) at 1kHz or less																				
	Input Impedance:GOS-6051/6050:approx.33kΩ;GOS-6031/6030:approx.47kΩ																				
<b>VERTICAL SYSTEM</b>																					
Sensitivity and Accuracy	1mV~2mV/div±5%,5mV~20V/div±3%,14 calibrated steps in 1-2-5 sequence																				
Vernier Vertical Sensitivity	Continuously variable to 1/2.5 or less of panel indicate value																				
Bandwidth(-3dB)																					
and Rise Time																					
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Maximum Input Voltage	400V (DC + AC peak) at 1kHz or less																				
Input Coupling	AC, DC, GND																				
Input Impedance	1MΩ ±2%//approx. 25pF																				
Vertical Modes	CH1, CH2, DUAL (CHOP, ALT), ADD, CH2 INV																				
Chop Frequency	Approx. 250kHz																				
Dynamic Range	GOS-6051/6050:8 div at 40MHz, 6div at 50MHz; GOS-6031/6030:8 div at 20MHz, 6div at 30MHz																				
<b>HORIZONTAL SYSTEM</b>																					
Sweep Time	0.2 μs/div ~ 0.5s/div, 20 steps selectable in 1-2-5 sequence, continuous variable control between steps at least 1 : 2.5																				
Accuracy	±3%, ±5% at x5 / x10MAG, ±8% at x 20MAG																				
Sweep Magnification	x5, x10, x20 MAG																				
Maximum Sweep Time (at MAG)	GOS-6051/6050 : 20ns/div (10ns/div are uncalibrated)																				
ALT-MAG Function	GOS-6031/6030 : 50ns/div (10ns/div ~ 40ns/div are uncalibrated)																				
	Available																				
<b>TRIGGER</b>																					
Trigger Mode	AUTO, NORM, TV																				
Trigger Source	VERT-MODE, CH1, CH2, LINE, EXT																				
Trigger Coupling	AC, HFR, LFR, TV-V(-), TV-H(-)																				
Trigger Slope	"+" or "-" polarity																				
Trigger Sensitivity																					
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VERT-MODE	2.0 div	3.0 div	3.5 div																		
EXT	200mV	800mV	1V																		
External Trigger Input	TV sync pulse more than 1 div (CH1, CH2, VERT-MODE) or 200mV (EXT)																				
	Input impedance:Approx.1MΩ//25pF(AC coupling)																				
	Max. input voltage:400V(DC+AC peak) at 1kHz																				
Hold-off Time	Variable																				
<b>X-Y OPERATION</b>																					
Input	X-axis : CH1 ; Y-axis : CH2																				
Sensitivity	1mV/div ~ 20V/div																				
Bandwidth	X-axis : DC ~ 500kHz (-3dB)																				
Phase Difference	3° or less from DC to 50kHz																				
<b>OUTPUT SIGNAL</b>																					
CH1 Signal Output	Voltage:approx.20mV/div(with 50Ω terminated);Bandwidth:50Hz to at least 5MHz																				
Calibrator Output	Voltage:0.5V±3% ; Frequency : approx. 1kHz, square wave																				



Rear Panel



GOS-6031/GOS-6030 (30MHz)

**SPECIFICATIONS**

**CRT READOUT**

Panel Setting Display Panel Setting Save & Recall Cursor Measurement (GOS-6051/6031)	CH1/CH2 sensitivity, sweep time, trigger condition 10 sets (for GOS-6051/6031) Cursor measurement function : $\Delta V, \Delta T, 1/\Delta T$ Cursor resolution : 1/25 div ; Effective cursor range : vertical : $\pm 3$ div Horizontal : $\pm 4$ div
Frequency Counter (GOS-6051/6031)	Display digits : Max. 6-digits decimal Frequency range :GOS-6051 : 50Hz ~ 50MHz; GOS-6031 : 50Hz ~ 30MHz Accuracy : $\pm 0.01\%$ ; Measuring sensitivity : more than 2 div (measuring source selected from CH1 or CH2 as synchronous signal sources)

**POWER SOURCE**

AC 100V/120V/230V $\pm 10\%$ , 50/60Hz

**DIMENSIONS & WEIGHT**

275(W) x 130(H) x 370(D) mm; Approx. 7.2kg

**ORDERING INFORMATION**

- GOS-6051 50MHz, Readout Analog Oscilloscope with Cursor Measurement and Frequency Counter
- GOS-6050 50MHz, Readout Analog Oscilloscope
- GOS-6031 30MHz, Readout Analog Oscilloscope with Cursor Measurement and Frequency Counter
- GOS-6030 30MHz, Readout Analog Oscilloscope

**ACCESSORIES :**

- User manual x 1, Power cord x 1
- Probe-GTP-060A-4 : 60MHz ( 10 : 1/1 : 1 ) Switchable Passive Probe (one per channel)

**OPTIONAL ACCESSORIES**

- GTC-001 Instrument Cart, 450(W)x430(D)mm (120V Input Socket)
- GTC-002 Instrument Cart, 330(W)x430(D)mm (120V Input Socket)
- GTL-110 Test Lead, BNC-BNC Heads



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