

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

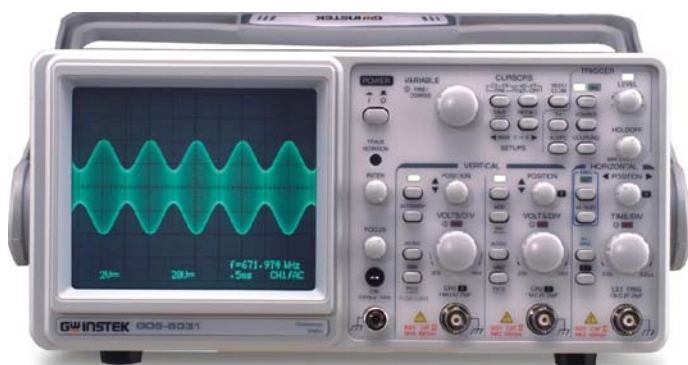


FEATURES

- * **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.

SPECIFICATIONS				
CRT				
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			
VERTICAL SYSTEM				
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)		Bandwidth (-3dB)	Rise Time	
and Rise Time	GOS-6051/6050	5mV ~ 20V/div :	DC ~ 50MHz	Approx. 7nS
		1mV ~ 2mV/div :	DC ~ 7MHz	Approx. 50nS
	GOS-6031/6030	5mV ~ 20V/div :	DC ~ 30MHz	Approx. 11.7nS
		1mV ~ 2mV/div :	DC ~ 7MHz	Approx. 50nS
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			
HORIZONTAL SYSTEM				
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)			
TRIGGER				
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	GOS-6051/6050	20Hz ~ 5MHz	5MHz ~ 40MHz	40MHz ~ 50MHz
	GOS-6031/6030	20Hz ~ 2MHz	2MHz ~ 20MHz	20MHz ~ 30MHz
	CH1, CH2	0.5 div	1.5 div	2.0 div
	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			
X-Y OPERATION				
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			
OUTPUT SIGNAL				
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 : ± 3 div Horizontal : ± 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