

50MHz/30MHz Readout Analog Oscilloscope



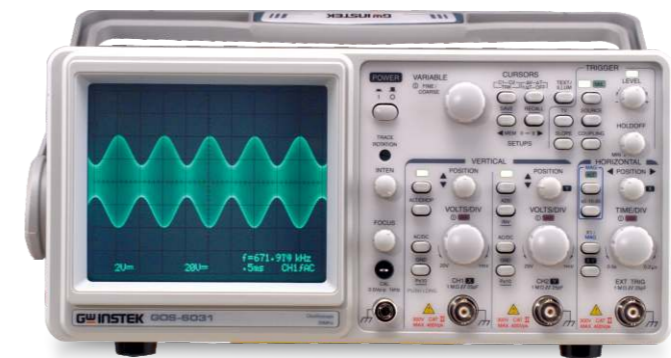
GOS-6051 (50MHz)
GOS-6031 (30MHz)



FEATURES

- * 2 Channels, 4 Traces:
- DC~50MHz Bandwidth (GOS-6051)
- DC ~ 30MHz Bandwidth (GOS-6031)
- * 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

GOS-6000 Series analog oscilloscopes have a remarkable combination of performance, compact design and resolution in bandwidths of 30MHz and 50 MHz. Coupled with various trigger modes, waveforms can be acquired and observed in a number of diverse applications. Elusive signal details can be revealed using the ALTMAG function to magnify signals (x5, x10x 30). The on-screen cursor readout function and 6 digit frequency counter allow signals to be tested conveniently, making the GOS-6000 Series oscilloscopes indispensable tools for any professional engineer. The series consists of the GOS-6051 (50MHz) and the GOS-6031 (30MHz) models.



GOS-6031 (30MHz)

Rear Panel



SPECIFICATIONS	
CRT	
Type	6-inch rectangular type with internal graticule 0%, 10%, 90%, 100% markers. 8x10 div(1div=1cm)
Accelerating Potential	GOS-6051 : approx.10kV; GOS-6031 : approx. 2kV
Illumination	Provided
Trace Rotation	Provided
Z-axis Input	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 : approx.33kΩ ;GOS-6031 : 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)	
Rise Time	
GOS-6051	5mV ~ 20V/div : DC ~ 50MHz Approx. 7nS 1mV ~ 2mV/div : DC ~ 7MHz Approx. 50nS
GOS-6031	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 : 8 div at 40MHz, 6div at 50MHz; GOS-6031 : 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 : 20ns/div (10ns/div are uncalibrated)
ALT-MAG Function	GOS-6031 : 50ns/div (10ns/div ~ 40nS/div are uncalibrated) Available
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	20Hz ~ 5MHz
GOS-6031	20Hz ~ 2MHz
CH1, CH2	0.5 div
VERT-MODE	1.5 div
EXT	2.0 div
	3.0 div
	3.5 div
	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

SPECIFICATIONS	
CRT READOUT	
Panel Setting Display	CH1/CH2 sensitivity, sweep time, trigger condition
Panel Setting Save & Recall	10 sets
Cursor Measurement	Cursor measurement function : ΔV, ΔT, 1/ΔT Cursor resolution : 1/25 div ; Effective cursor range : vertical : ±3 div Horizontal : ±4 div
Frequency Counter	Display digits : Max. 6-digits decimal Frequency range :GOS-6051 : 50Hz ~ 50MHz; GOS-6031 : 50Hz ~ 30MHz Accuracy : ±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±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-6031	30MHz, Readout Analog Oscilloscope with Cursor Measurement and Frequency Counter
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