

Analog Oscilloscope



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

FEATURES

- * 2Channels, 4Traces: DC~50MHz Bandwidth (GOS-6051/6050)
DC ~ 30MHz Bandwidth (GOS-6031/6030)
- * 1mV/div ~ 20V/div
- * CRT Readout
- * Cursor Measurement, 6 Digit Frequency Counter, 10sets 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.

SPECIFICATIONS

CRT	Type Accelerating Potential Illumination Trace Rotation Z-axis Input	6-inch rectangular type with internal graticule; 0%, 10%, 90%, 100% markers. 8x10 div(1div=1cm) GOS-6051/6050:approx.10kV; GOS-6031/6030 : approx. 2kV Provided (GOS-6051/6031) 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 Vernier Vertical Sensitivity Bandwidth (-3dB) and Rise Time Maximum Input Voltage Input Coupling Input Impedance Vertical Modes Chop Frequency Dynamic Range	1mV ~ 2mV/div ± 5%, 5mV ~ 20V/div ± 3%, 14 calibrated steps in 1-2-5 sequence Continuously variable to 1/2.5 or less of panel indicate value																						
				Bandwidth (-3dB)	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																					
400V (DC + AC peak) at 1kHz or less AC, DC, GND 1MΩ ± 2%/approx. 25pF CH1, CH2, DUAL (CHOP, ALT), ADD, CH2 INV Approx. 250kHz 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 Sweep Magnification Maximum Sweep Time (at MAG) ALT-MAG Function	± 3%, ± 5% at x5 / x10MAG, ± 8% at x 20MAG x5, x10, x20 MAG GOS-6051/6050 : 20ns/div (10ns/div are uncalibrated) GOS-6031/6030 : 50ns/div (10ns/div ~ 40ns/div are uncalibrated) Available																						
TRIGGER	Trigger Mode Trigger Source Trigger Coupling Trigger Slope Trigger Sensitivity	AUTO, NORM, TV VERT-MODE, CH1, CH2, LINE, EXT AC, HFR, LFR, TV-V(-), TV-H(-) “+” or “-” polarity																						
	External Trigger Input Hold-off Time	<table><tr><td>GOS-6051/6050</td><td>20Hz ~ 5MHz</td><td>5MHz ~ 40MHz</td><td>40MHz ~ 50MHz</td></tr><tr><td>GOS-6031/6030</td><td>20Hz ~ 2MHz</td><td>2MHz ~ 20MHz</td><td>20MHz ~ 30MHz</td></tr><tr><td>CH1, CH2</td><td>0.5 div</td><td>1.5 div</td><td>2.0 div</td></tr><tr><td>VERT-MODE</td><td>2.0 div</td><td>3.0 div</td><td>3.5 div</td></tr><tr><td>EXT</td><td>200mV</td><td>800mV</td><td>1V</td></tr></table> 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 Variable				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
GOS-6051/6050	20Hz ~ 5MHz	5MHz ~ 40MHz	40MHz ~ 50MHz																					
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VERT-MODE	2.0 div	3.0 div	3.5 div																					
EXT	200mV	800mV	1V																					
X-Y OPERATION	Input Sensitivity Bandwidth Phase Difference	X-axis : CH1 ; Y-axis : CH2 1mV/div ~ 20V/div X-axis : DC ~ 500kHz (-3dB) 3° or less from DC to 50kHz																						
OUTPUT SIGNAL	CH1 Signal Output Calibrator Output	Voltage : approx. 20mV/div (with 50Ω terminated) Bandwidth : 50Hz to at least 5MHz Voltage : 0.5V± 3% ; Frequency : approx. 1kHz, square wave																						
CRT READOUT	Panel Setting Display Panel Setting Save & Recall Cursor Measurement (GOS-6051/6031) Frequency Counter (GOS-6051/6031)	CH1/CH2 sensitivity, sweep time, trigger condition 10 sets (for GOS-6051/6031) Cursor measurement function : ΔV, ΔT, 1/ΔT Cursor resolution : 1/25 div ; Effective cursor range : vertical : ± 3 div ; Horizontal : ± 4 div 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																						
ACCESSORIES		Instruction manual x 1, Power cord x 1, GLF-190C Probes (10:1/1:1) x 2																						
DIMENSIONS & WEIGHT		275(W) x 130(H) x 370(D) mm; Approx. 7.2kg																						

ORDERING INFORMATION

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

Option

Opt. 01 GTC-001 Instrument Cart, 450(W)x430(D)mm
Opt. 02 GTC-002 Instrument Cart, 330(W)x430(D)mm