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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	6-inch rectangular type with internal graticule; 0%, 10%, 90%, 100% markers. 8x10 div(1div=1cm)
Accelerating Potential	GOS-6051/6050:approx.10kV; GOS-6031/6030 : approx. 2kV
Illumination	Provided (GOS-6051/6031)
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-6051/6050: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)	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

Bandwidth (-3dB) and Rise Time	
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	0.2μs/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) GOS-6031/6030 : 50ns/div (10ns/div ~ 40nS/div are uncalibrated)
ALT-MAG Function	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-6051/6050	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

	TV sync pulse more than 1 div (CH1, CH2, VERT-MODE) or 200mV (EXT)
External Trigger Input	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
CRT READOUT	**Panel Setting Display**	CH1/CH2 sensitivity, sweep time, trigger condition
	Panel Setting Save & Recall	10 sets (for GOS-6051/6031)
	Cursor Measurement (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 Counter (GOS-6051/6031)	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, Analong Oscilloscope
GOS-6031 30MHz, Analog Oscilloscope with Cursor Measurement and Frequency Counter
GOS-6030 30MHz, Analong Oscilloscope

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

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