

# Analogue Oscilloscopes

**GW INSTEK**

## GOS 6000 Series, Processor Controlled

- 30 & 50MHz.
- Cursors.
- Z-Axis Input.



		GOS-6051	GOS-6050	GOS-6031	GOS-6030																				
<b>CRT</b>	Type	6-Inch Rectangular Type with Internal Graticule; 0%, 10%, 90%, 100% Markers. 8 x 10 Div (1 Div = 1cm)																							
	Accelerating Potential Intensity & Focus	Approx. 10kV Front Panel Control		Approx. 2kV Front Panel Control																					
	Illumination Control	Provided	N/A	Provided	N/A																				
	Z-Axis Input	Sensitivity: At Least 5V; Polarity: Positive Going Input Decreases Intensity Usable Frequency Range : DC ~ 2MHz ; Max. Input Voltage : 30V (DC + AC Peak) at 1kHz or Less																							
<b>Vertical System</b>	Sensitivity & Accuracy Vernier Vertical Sensitivity	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 Displayed Value																							
	Bandwidth (-3dB) & Rise Time	<table border="1"> <thead> <tr> <th></th> <th></th> <th>Bandwidth (-3dB)</th> <th>Rise Time</th> </tr> </thead> <tbody> <tr> <td>GOS-6051</td> <td>5mV ~ 20V/div :</td> <td>DC ~ 50MHz</td> <td>Approx. 7nS</td> </tr> <tr> <td>GOS-6050</td> <td>1mV ~ 2mV/div :</td> <td>DC ~ 7MHz</td> <td>Approx. 50nS</td> </tr> <tr> <td>GOS-6031</td> <td>5mV ~ 20V/div :</td> <td>DC ~ 30MHz</td> <td>Approx. 11.7nS</td> </tr> <tr> <td>GOS-6030</td> <td>1mV ~ 2mV/div :</td> <td>DC ~ 7MHz</td> <td>Approx. 50nS</td> </tr> </tbody> </table>						Bandwidth (-3dB)	Rise Time	GOS-6051	5mV ~ 20V/div :	DC ~ 50MHz	Approx. 7nS	GOS-6050	1mV ~ 2mV/div :	DC ~ 7MHz	Approx. 50nS	GOS-6031	5mV ~ 20V/div :	DC ~ 30MHz	Approx. 11.7nS	GOS-6030	1mV ~ 2mV/div :	DC ~ 7MHz	Approx. 50nS
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GOS-6030	1mV ~ 2mV/div :	DC ~ 7MHz	Approx. 50nS																						
Maximum Input Voltage Input Coupling Input Impedance Vertical Modes Chop Frequency	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																								
Dynamic Range	8 Div at 40MHz, 6 Div at 50MHz		8 Div at 20MHz, 6 Div at 30MHz																						
<b>Horizontal System</b>	Sweep Time Accuracy Sweep Magnification	0.2 μs/div ~ 0.5s/div, 20 Steps Selectable in 1-2-5 Sequence, Continuously Variable Control Between Steps of at Least 1 : 2.5 ± 3%; ± 5% at x5 / x10MAG; ± 8% at x 20MAG x 5, x10, x20 MAG																							
	Maximum Sweep Time at MAG	20ns/div (10ns/div are Uncalibrated)		50ns/div (10ns/div ~ 40ns/div are Uncalibrated)																					
	ALT-MAG Function	Available																							

		GOS-6051	GOS-6050	GOS-6031	GOS-6030																			
<b>Trigger</b>	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 border="1"> <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. 1M $\Omega$ // 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
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<b>X-Y Operation</b>	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																						
<b>Output Signal</b>	CH1 Signal Output Calibrator Output	Voltage: Approx. 20mV/div (50 $\Omega$ Terminated) Bandwidth : 50Hz to at Least 5MHz Voltage: 0.5V $\pm$ 3% ; Frequency : Approx. 1kHz, Square Wave																						
<b>CRT</b>	Panel Setting Display	CH1/CH2 Sensitivity, Sweep Time, Trigger Condition																						
	Setup Save & Recall	10 Sets Memory	N/A	10 Sets Memory	N/A																			
	Cursor Measurement (GOS-6051/GOS-6031) Frequency Counter (GOS-6051/GOS-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 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)																						
<b>General</b>	Power Source Accessories Dimensions Weight	AC 100V / 120V / 230V $\pm$ 10%, 50/60Hz Instruction Manual x 1, Power Cord x 1, GLF-190C Probes (10:1/1:1) x 2 275mm (W) x 130mm (H) x 370mm (D) 7.2kg																						

ORDERING INFORMATION	
GOS-6051	50MHz, Analogue Oscilloscope with Cursor Measurement & Frequency Counter
GOS-6050	50MHz, Analogue Oscilloscope
GOS-6031	30MHz, Analogue Oscilloscope with Cursor Measurement & Frequency Counter
GOS-6030	30MHz, Analogue Oscilloscope
Option 01	GTC-001 Instrument Cart, 450 (W) x 430 (D) mm
Option 02	GTC-002 Instrument Cart, 330 (W) x 430 (D) mm

