

# New Generation Analog Oscilloscope

**NEW**  
CE



## FEATURES :

- \* **2Channels, 4Traces: DC ~ 50MHz(GOS-6051/6050)**  
DC ~ 30MHz(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.**

New GOS-6000 Series (50MHz, 30MHz)

## SPECIFICATIONS

<b>CRT</b>	<b>Type</b> <b>Accelerating Potential</b> <b>INTEN and FOCUS</b> <b>Illumination</b> <b>Trace Rotation</b> <b>Z-axis Input</b>	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 Front panel control 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.33k $\Omega$ ; GOS-6031/6030 : approx. 47k $\Omega$																								
<b>VERTICAL SYSTEM</b>	<b>Sensitivity and Accuracy</b> <b>Vernier Vertical Sensitivity</b> <b>Bandwidth (-3dB) and Rise Time</b>  <b>Maximum Input Voltage</b> <b>Input Coupling</b> <b>Input Impedance</b> <b>Vertical Modes</b> <b>Chop Frequency</b> <b>Dynamic Range</b>	1mV ~ 2mV/DIV $\pm$ 5%, 5mV ~ 20V/DIV $\pm$ 3%, 14 calibrated steps in 1-2-5 sequence Continuously variable to 1/2.5 or less of panel indicate value <table border="1"> <thead> <tr> <th></th> <th></th> <th>Bandwidth (-3dB)</th> <th>Rise Time</th> </tr> </thead> <tbody> <tr> <td rowspan="2">GOS-6051/6050</td> <td>5mV ~ 20V/DIV :</td> <td>DC ~ 50MHz</td> <td>Approx. 7nS</td> </tr> <tr> <td>1mV ~ 2mV/DIV :</td> <td>DC ~ 7MHz</td> <td>Approx. 50nS</td> </tr> <tr> <td rowspan="2">GOS-6031/6030</td> <td>5mV ~ 20V/DIV :</td> <td>DC ~ 30MHz</td> <td>Approx. 11.7nS</td> </tr> <tr> <td>1mV ~ 2mV/DIV :</td> <td>DC ~ 7MHz</td> <td>Approx. 50nS</td> </tr> </tbody> </table> 400V (DC + AC peak) at 1kHz or less AC, DC, GND 1M $\Omega$ $\pm$ 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			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						
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<b>HORIZONTAL SYSTEM</b>	<b>Sweep Time</b>  <b>Accuracy</b> <b>Sweep Magnification</b> <b>Maximum Sweep Time (at MAG)</b> <b>ALT-MAG Function</b>	0.2 $\mu$ s/DIV ~ 0.5s/DIV, 20 steps selectable in 1-2-5 sequence, continuous variable control between steps at least 1 : 2.5 $\pm$ 3%, $\pm$ 5% at x5 / x10MAG, $\pm$ 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																								
<b>TRIGGER</b>	<b>Trigger Mode</b> <b>Trigger Source</b> <b>Trigger Coupling</b> <b>Trigger Slope</b> <b>Trigger Sensitivity</b>  <b>External Trigger Input</b> <b>Hold-off Time</b>	AUTO, NORM, TV VERT-MODE, CH1, CH2, LINE, EXT AC, HFR, LFR, TV-V(-), TV-H(-) " + " or " - " polarity <table border="1"> <thead> <tr> <th></th> <th>GOS-6051/6050</th> <th>GOS-6031/6030</th> <th>CH1, CH2</th> <th>VERT-MODE</th> <th>EXT</th> </tr> </thead> <tbody> <tr> <td></td> <td>20Hz ~ 5MHz</td> <td>20Hz ~ 2MHz</td> <td>0.5 DIV</td> <td>2.0 DIV</td> <td>200mV</td> </tr> <tr> <td></td> <td>5MHz ~ 40MHz</td> <td>2MHz ~ 20MHz</td> <td>1.5 DIV</td> <td>3.0 DIV</td> <td>800mV</td> </tr> <tr> <td></td> <td>40MHz ~ 50MHz</td> <td>20MHz ~ 30MHz</td> <td>2.0 DIV</td> <td>3.5 DIV</td> <td>1V</td> </tr> </tbody> </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	GOS-6031/6030	CH1, CH2	VERT-MODE	EXT		20Hz ~ 5MHz	20Hz ~ 2MHz	0.5 DIV	2.0 DIV	200mV		5MHz ~ 40MHz	2MHz ~ 20MHz	1.5 DIV	3.0 DIV	800mV		40MHz ~ 50MHz	20MHz ~ 30MHz	2.0 DIV	3.5 DIV	1V
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<b>X-Y OPERATION</b>	<b>Input Sensitivity</b> <b>Bandwidth</b> <b>Phase Difference</b>	X-axis : CH1 ; Y-axis : CH2 1mV/DIV ~ 20V/DIV X-axis : DC ~ 500kHz (-3dB) 3 $^\circ$ or less from DC to 50kHz																								
<b>OUTPUT SIGNAL</b>	<b>CH1 Signal Output</b> <b>Calibrator Output</b>	Voltage : approx. 20mV/DIV (with 50 $\Omega$ terminated) ; Bandwidth : 50Hz to at least 5MHz Voltage : 0.5V $\pm$ 3% ; Frequency : approx. 1kHz, square wave																								
<b>CRT READOUT</b>	<b>Panel Setting Display</b> <b>Panel Setting Save &amp; Recall</b> <b>Cursor Measurement (GOS-6051/6031)</b> <b>Frequency Counter (GOS-6051/6031)</b>	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 : $\pm$ 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>POWER SOURCE</b>		AC 100V/120V/230V $\pm$ 10%, 50/60Hz																								
<b>ACCESSORIES</b>		Power cord x 1, Instruction manual x 1, GLF-190C Probes (10:1/1:1) x 2																								
<b>DIMENSIONS &amp; WEIGHT</b>		275(W) x 130(H) x 370(D) mm; Approx. 7.2kg																								

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ISO-9001 & ISO-14001