

## 2-CHANNEL ANALOG OSCILLOSCOPE



GOS-630FC



The 30MHz GOS-630FC establishes a new benchmark for economical analog oscilloscopes. Innovative functions, including an LCD readout display, frequency counter, and an Auto Time-Base setting are standard features. A 1mV/div vertical sensitivity is able to capture small signal variations from input sources. Additional functions such as XY mode display, MAG function (magnified time base), and Z-axis Input make the GOS-630FC suitable for both education and industry use. The added value of the GOS-630FC makes it one of the most beneficial choices among entry-level analog oscilloscopes available in today's market.

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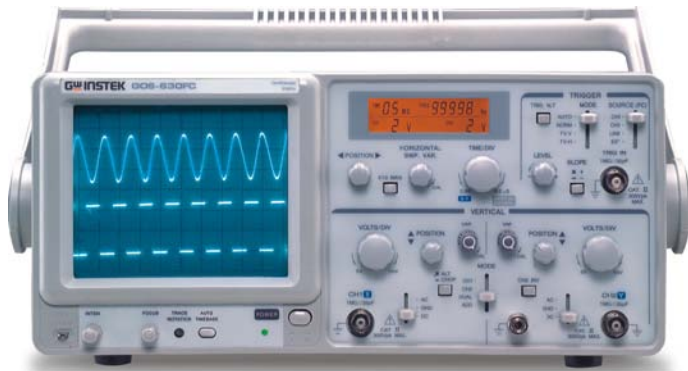
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### FEATURES

- \* 1mV/div High Vertical Sensitivity
- \* Internal 5 Digits Real-Time Frequency Counter
- \* LCD Readout Display for Vertical/Horizontal/Frequency Measurement
- \* Auto Time-Base Setting
- \* Buzzer Alarm
- \* TV(TV-V, TV-H) Trigger Modes
- \* XY Mode
- \* Z-Axis Input and External Trigger Input

### SPECIFICATIONS

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<b>VERTICAL AXIS</b>	
Sensitivity	1mV ~ 5V/div , 12 steps in 1-2-5 sequence
Accuracy	≤ 3%, (1mV/div, 2mV/div: ≤ 5%)
Vernier Vertical Sensitivity	≤ 1/2.5 of panel-indicated value
Bandwidth	DC ~ 30MHz (1mV/div, 2mV/div: DC ~ 7MHz)
Rise Time	Approx. 11.7ns (1mV/div, 2mV/div: Approx. 50ns)
Input Impedance	Approx. 1MΩ // Approx. 25pF
Square Wave Characteristics	Overshoot : 5% ( At 10mV/div range)
Linearity	≤ ±0.1div of amplitude change
Vertical Modes	CH1, CH2, DUAL (ALT/CHOP), ADD
Chopping Repetition Frequency	Approx. 250kHz
Input Coupling	AC, DC, GND
Maximum Input Voltage	CATII 300V(DC+ACpeak)
Common Mode Rejection Ratio	50:1 or better at 50kHz sinusoidal wave.
Isolation Between Channels	>1000:1at 50kHz, >30:1at 30MHz(at 5mv/div Range)
CH1 Signal Output	At least 20 mV/div at 50Ω terminal, frequency at least 50Hz to 5MHz
<b>TRIGGERING</b>	
Triggering Source	CH1, CH2, ALT, LINE, EXT
Coupling	AC : 20Hz to full bandwidth
Slope	+ / -
Sensitivity	20Hz ~ 2 MHz : 0.5 div, TRIG-ALT : 2 div, EXT : 200mV 2MHz ~ 30MHz : 1.5 div, TRIG-ALT : 3 div, EXT : 800mV TV : Sync pulse more than 1 div (EXT: 1V)
Triggering Modes	AUTO, NORM, TV-V, TV-H
<b>EXT TRIGGERING SIGNAL INPUT</b>	
Input Impedance	Approx. 1MΩ // approx. 25pF
Maximum Input Voltage	CATII 300V(DC+AC peak)
<b>HORIZONTAL AXIS</b>	
Sweep Time	0.2 μs ~ 0.5 S/div , 20 steps in 1-2-5 sequence
Sweep Time Accuracy	±3%
Vernier Sweep Time Control	≤ 1/2.5 of panel-indicated value
Sweep Magnification	10 times
×10MAG Sweep Time Accuracy	±5% (20nSec ~ 50nSec are uncalibrated)
Linearity	±3%, ×10MAG:±5% (20ns and 50ns are uncalibrated)
<b>X-Y MODE</b>	
Sensitivity	Same as vertical axis
Bandwidth	DC to at least 500kHz
X-Y Phase Difference	≤ 3° at DC ~ 50kHz
<b>Z AXIS</b>	
Sensitivity	5 Vp-p (Positive-going signal decreases intensity)
Bandwidth	DC ~ 2MHz
Input Resistance	Approx. 47kΩ
Maximum Input Voltage	CAI II 30V(DC+AC peak)
<b>CALIBRATION VOLTAGE</b>	
Waveform	Positive-going Square wave
Frequency	Approx. 1 kHz
Duty Ratio	Within 48:52
Output Voltage	2 Vp-p ±2%
Output Impedance	Approx. 1 kΩ
<b>FREQUENCY COUNTER</b>	
Display Digits	Max. 5-digits decimal
Frequency Range	50Hz~30MHz
Accuracy	±0.05% : 50Hz~1kHz, ±0.02% : 1kHz~30MHz
Measuring Sensitivity	> 2div
<b>LCD</b>	
Display	VOLT/div, TIME/div, X-Y Mode, Frequency
Backlight	Orange



GOS-630FC

CRT	
Type	6-inch rectangular type, internal graticule
Phosphor & Acceleration Voltage	P 31 & Approx. 2kV
Effective Screen Size	8 x 10 div (1 div = 10mm (0.39in))
Graticule	Internal
Trace Rotation	Provided
POWER SOURCE	
AC115V, 230V ± 15% selectable, 50Hz or 60Hz	
STORAGE TEMPERATURE & HUMIDITY	
-10°C to 70°C ; 70%RH (Max.)	
DIMENSIONS & WEIGHT	
310 (W) x 150 (H) x 455 (D) mm ; Approx.8.2kgs (18.0lbs)	

ORDERING INFORMATION	
<b>GOS-630FC</b> 30MHz 2-Channel Analog Oscilloscope	
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) x 430(D) mm (120V Input Socket)
GTC-002	Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)
GTL-110	Test Lead, BNC-BNC Heads



High Sensitivity 1mV/div



Auto Time-Base



LCD Readout Display



5 Digits Real-Time Frequency Counter



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