



**GOS-630FC**



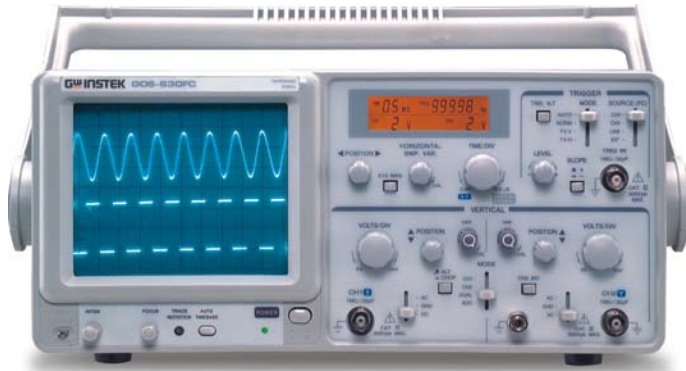
The 30MHz GOS-630FC establishes a new benchmark for economical analog oscilloscopes. Innovative functions, including an LCD readout display, frequency counter, and an Auto Time-Base setting are standard features. A 1mV/div vertical sensitivity is able to capture small signal variations from input sources. 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.

## 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

VERTICAL AXIS	
<b>Sensitivity</b>	1mV ~ 5V/div , 12 steps in 1-2-5 sequence
<b>Accuracy</b>	≤ 3%, (1mV/div, 2mV/div: ≤ 5%)
<b>Vernier Vertical Sensitivity</b>	≤ 1/2.5 of panel-indicated value
<b>Bandwidth</b>	DC ~ 30MHz (1mV/div, 2mV/div: DC ~ 7MHz)
<b>Rise Time</b>	Approx. 11.7ns (1mV/div, 2mV/div: Approx. 50ns)
<b>Input Impedance</b>	Approx. 1MΩ // Approx. 25pF
<b>Square Wave Characteristics</b>	Overshoot : 5% ( At 10mV/div range)
<b>Linearity</b>	≤ ±0.1div of amplitude change
<b>Vertical Modes</b>	CH1, CH2, DUAL (ALT/CHOP), ADD
<b>Chopping Repetition Frequency</b>	Approx. 250kHz
<b>Input Coupling</b>	AC, DC, GND
<b>Maximum Input Voltage</b>	CATII 300V(DC+ACpeak)
<b>Common Mode Rejection Ratio</b>	50:1 or better at 50kHz sinusoidal wave.
<b>Isolation Between Channels</b>	>1000:1at 50kHz, >30:1at 30MHz(at 5mv/div Range)
<b>CH1 Signal Output</b>	At least 20 mV/div at 50Ω terminal, frequency at least 50Hz to 5MHz
TRIGGERING	
<b>Triggering Source</b>	CH1, CH2, ALT, LINE, EXT
<b>Coupling</b>	AC : 20Hz to full bandwidth
<b>Slope</b>	+ / -
<b>Sensitivity</b>	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)
<b>Triggering Modes</b>	AUTO, NORM, TV-V, TV-H
EXT TRIGGERING SIGNAL INPUT	
<b>Input Impedance</b>	Approx. 1MΩ // approx. 25pF
<b>Maximum Input Voltage</b>	CATII 300V(DC+AC peak)
HORIZONTAL AXIS	
<b>Sweep Time</b>	0.2 μS ~ 0.5 S/div , 20 steps in 1-2-5 sequence
<b>Sweep Time Accuracy</b>	±3%
<b>Vernier Sweep Time Control</b>	≤ 1/2.5 of panel-indicated value
<b>Sweep Magnification</b>	10 times
<b>x10MAG Sweep Time Accuracy</b>	±5% (20nSec ~ 50nSec are uncalibrated)
<b>Linearity</b>	±3%, x10MAG:±5% (20ns and 50ns are uncalibrated)
X-Y MODE	
<b>Sensitivity</b>	Same as vertical axis
<b>Bandwidth</b>	DC to at least 500kHz
<b>X-Y Phase Difference</b>	≤ 3° at DC ~ 50kHz
Z AXIS	
<b>Sensitivity</b>	5 Vp-p (Positive-going signal decreases intensity)
<b>Bandwidth</b>	DC ~ 2MHz
<b>Input Resistance</b>	Approx. 47kΩ
<b>Maximum Input Voltage</b>	CAI II 30V(DC+AC peak)
CALIBRATION VOLTAGE	
<b>Waveform</b>	Positive-going Square wave
<b>Frequency</b>	Approx. 1 kHz
<b>Duty Ratio</b>	Within 48:52
<b>Output Voltage</b>	2 Vp-p ±2%
<b>Output Impedance</b>	Approx. 1 kΩ
FREQUENCY COUNTER	
<b>Display Digits</b>	Max. 5-digits decimal
<b>Frequency Range</b>	50Hz~30MHz
<b>Accuracy</b>	±0.05% : 50Hz~1kHz, ±0.02% : 1kHz~30MHz
<b>Measuring Sensitivity</b>	> 2div
LCD	
<b>Display</b>	VOLT/div, TIME/div, X-Y Mode, Frequency
<b>Backlight</b>	Orange



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CRT	
<b>Type</b>	6-inch rectangular type, internal graticule
<b>Phosphor &amp; Acceleration Voltage</b>	P 31 & Approx. 2kV
<b>Effective Screen Size</b>	8 x 10 div (1 div = 10mm (0.39in))
<b>Graticule</b>	Internal
<b>Trace Rotation</b>	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
<b>ACCESSORIES :</b>	
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	
<b>GTC-001</b>	Instrument Cart, 450(W) x 430(D) mm (120V Input Socket)
<b>GTC-002</b>	Instrument Cart, 330(W) x 430(D) mm (120V Input Socket)
<b>GTL-110</b>	Test Lead, BNC-BNC Heads



High Sensitivity 1mV/div



Auto Time-Base



LCD Readout Display



5 Digits Real-Time Frequency Counter