

The Best Economic Oscilloscope

GOS-630FC is a brand new benchmark for the Oscilloscopes within the same category. The new innovative functions, including LCD Readout Display, Frequency Counter, and Auto Time-Base setting, are provided as standard features of the product. GOS-630FC, with a bandwidth elevated to 30MHz and additional valuable features, is priced at the level of a fundamental oscilloscope. The add-on value without additional cost make GOS-630FC a most beneficial choice among the entry-level analog oscilloscopes available in the market today.

1mV/div High Vertical Sensitivity

GOS-630FC, with high vertical sensitivity up to 1mV/div, is able to capture the small signals of the input source. Wide ranges of vertical, horizontal, and trigger settings make GOS-630FC a full-fledged oscilloscope. Additional functions such as XY mode display, MAG function (Time based Magnified), and Z-axis Input extend the application range of GOS-630FC to both the education and industry fields.

LCD Readout Display & Real-Time Frequency Counter

Vertical/Horizontal settings and input signal Frequency of GOS-630FC are shown on a bright and clear LCD display simultaneously. Users could easily know the current setting status from the small LCD screen instead of checking the knob positions. GOS-630FC automatically counts the frequency of the input signal

and shows this reading on the display. This is a good feature rarely seen on a basic oscilloscope.

Auto Time-Base Intelligent Operations

GOS-630FC provides " Auto Time-Base " function, which is seen only in digital or high-end analog oscilloscopes, to automatically select the appropriate horizontal time base for waveform display. Buzzer alarm reminds users when the Vertical/Horizontal setting reaches the maximum or minimum boundary.

High Product Quality with Economic Price

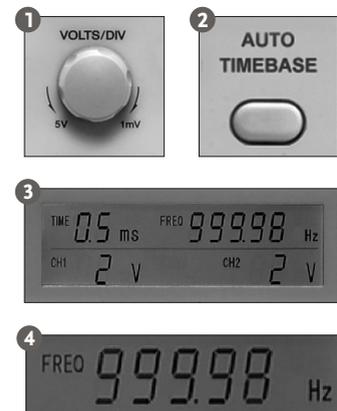
GOS-630FC is a highly reliable product guaranteed by an ISO certified manufacturing system. Hundreds of quality tests have to be passed upon completion of the manufacturing of each unit. Economic price and remarkable functions like LCD readout display, 5 digits real-time counter, and Auto Time-base make GOS-630FC a product with the best price vs. performance ratio in the oscilloscope market.

GOS-630FC

FEATURES

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

1. High Sensitivity 1mV/div
2. Auto Time-Base
3. LCD Readout Display
4. 5 Digits Real-Time Frequency Counter



APPLICATIONS

- Education and Training
- R & D Design and Verification
- Maintenance and Service Center

SPECIFICATIONS

VERTICAL AXIS	Sensitivity Accuracy Vernier Vertical Sensitivity Bandwidth Rise Time Input Impedance Square Wave Characteristics Linearity Vertical Modes Chopping Repetition Frequency Input Coupling Maximum Input Voltage Common Mode Rejection Ratio Isolation Between Channels CH1 Signal Output	1mV ~ 5V/div, 12 steps in 1-2-5 sequence ≤ 3%, (1mV/div, 2mV/div: ≤ 5%) ≤ 1/2.5 of panel-indicated value DC ~ 30MHz (1mV/div, 2mV/div: DC ~ 7MHz) Approx. 11.7ns (1mV/div, 2mV/div: Approx. 50ns) Approx. 1MΩ // Approx. 25pF Overshoot: 5% (At 10mV/div range) <±0.1div of amplitude change CH1, CH2, DUAL (ALT/CHOP), ADD Approx. 250kHz AC, DC, GND CATI 300V(DC+ACpeak) 50:1 or better at 50kHz sinusoidal wave. >1000:1 at 50kHz, >30:1 at 30MHz(at 5mv/div Range) At least 20 mV/div at 50Ω terminal, frequency at least 50Hz to 5MHz
TRIGGERING	Triggering Source Coupling Slope Sensitivity Triggering Modes	CH1, CH2, ALT, LINE, EXT AC: 20Hz to full bandwidth + / - 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) AUTO, NORM, TV-V, TV-H
EXT TRIGGERING SIGNAL INPUT	Input Impedance Maximum Input Voltage	Approx. 1MΩ // approx. 25pF CATI 300V(DC+AC peak)
HORIZONTAL AXIS	Sweep Time Sweep Time Accuracy Vernier Sweep Time Control Sweep Magnification ×10MAG Sweep Time Accuracy Linearity	0.2 μS ~ 0.5 S/div, 20 steps in 1-2-5 sequence ±3% ≤ 1/2.5 of panel-indicated value 10 times ±5% (20nSec ~ 50nSec are uncalibrated) ±3%, ×10MAG: ±5% (20ns and 50ns are uncalibrated)
X-Y MODE	Sensitivity Bandwidth X-Y Phase Difference	Same as vertical axis DC to at least 500kHz ≤ 3° at DC ~ 50kHz
Z AXIS	Sensitivity Bandwidth Input Resistance Maximum Input Voltage	5 Vp-p (Positive-going signal decreases intensity) DC ~ 2MHz Approx. 47kΩ CATI 30V(DC+AC peak)
CALIBRATION VOLTAGE	Waveform Frequency Duty Ratio Output Voltage Output Impedance	Positive-going Square wave Approx. 1 kHz Within 48:52 2 Vp-p ±2% Approx. 1 kΩ
FREQUENCY COUNTER	Display Digits Frequency Range Accuracy Measuring Sensitivity	Max. 5-digits decimal 50Hz~30MHz ±0.05% : 50Hz~1kHz, ±0.02% : 1kHz~30MHz > 2div
LCD	Display Backlight	VOLT/div, TIME/div, X-Y Mode, Frequency Orange
CRT	Type Phosphor & Acceleration Voltage Effective Screen Size Gaticule Trace Rotation	6-inch rectangular type, internal graticule P 31 & Approx. 2kV 8 × 10 div (1 div = 10mm (0.39in)) Internal Provided
Power Source	AC115V, 230V ± 15% selectable, 50Hz or 60Hz	
Storage Temperature & Humidity	-10°C to 70°C ; 70%RH (Max.)	
Accessories	Power cord × 1, Instruction manual × 1, Probes × 2,	
Dimensions & Weight	310 (W) × 150 (H) × 455 (D) mm ; Approx.8.2kgs (18.0lbs)	

ORDERING INFORMATION

GOS-630FC 30MHz 2-Channel Analog Oscilloscope

Specifications subject to change without notice. OS-630FGD0DH

Global Headquarters

GOOD WILL INSTRUMENT CO., LTD.

No. 7-1, Jhongsing Road, Tucheng City, Taipei County 236, Taiwan
 T +886-2-2268-0389 F +886-2-2268-0639
 E-mail: marketing@goodwill.com.tw

China Subsidiary

INSTEK ELECTRONIC (SHANGHAI) CO., LTD.

8F, of NO.2 Building, No.889 Yishan Road, Shanghai China
 T +86-21-6485-3399 F +86-21-5450-0789
 E-mail: marketing@instek.com.cn

Japan Subsidiary

INSTEK JAPAN CORPORATION

4F, Prosper Bldg, 1-3-3 Iwamoto-Cho Chiyoda-Ku,
 Tokyo 101-0032 Japan
 T +81-3-5823-5656 F +81-3-5823-5655
 E-mail: info@instek.co.jp

U.S.A. Subsidiary

INSTEK AMERICA CORP.

3661 Walnut Avenue Chino, CA 91710, U.S.A.
 T +1-909-5918358 F +1-909-5912280
 E-mail: sales@instek.com

Malaysia Subsidiary

GOOD WILL INSTRUMENT (M) SDN. BHD.

27, Persiaran Mahsuri 1/1, Sunway Tunas,
 11900 Bayan Lepas, Penang, Malaysia.
 T +604-6309988 F +604-6309989
 E-mail: sales@goodwill.com.my

GW INSTEK

www.gwinstek.com.tw