

## **GX 1030** ARBITRARY FUNCTION GENERATOR 2 CHANNELS, 30 MHz

## This multifunction, high-performance, communicating laboratory tester-generator offers a variety of stable, high-fidelity signals:

- Large 4.3-inch high-contrast TFT colour screen (960x540 mm)
- Frequency range from 0.001 mHz to 30 MHz for classic and arbitrary signals
- DDS technology on 2 outputs (coupling and duplication) combination of functions
- Signals sampled at 150 MS/s with 14-bit resolution
- Analogue and digital modulation types: AM & FM, FSK & ASK, PSK and PWM
- Practical SWEEP and BURST functions
- Frequency meter from 100 mHz to 200 MHz
- EasyPulse technology for generating low-jitter pulses
- TrueArb technology to eliminate jitter and signal distortion
- Programmable via a USB or Ethernet link and storage on USB key
- PC software for creating arbitrary signals: SX-GENE and EasywaveX



*SX GENE software: construction of arbitrary signals on PC* 

Measure



	GX 10	30		
Display	4.3-inch colour TFT	screen with high contrast - dimensions 960x 54	40 mm -24 bits	
Controls on front panel		23 direct-access buttons, 1 rotary knob		
Adjustment of signal parameters	Ca	ontinuous via the encoder and/digital keypad		
BNC output terminals on front panel	Generator outputs 1 & 2 - Independent settings (waveform, f, phase, amplitude, etc.), coupled, duplicated or combined channels			
BNC I/O terminals on rear panel	3 inputs/outputs for Ext. trigger, frequency meter and 10 MHz clock - synchronization			
	Signal gen	eration		
Signal types	Sine, Square, Triangle, Ramp	o, Pulse, White Noise, Arbitrary Signal (196 p	re-installed waveforms)	
Generation of arbitrary signals Resolution / Sampling		14 hits / 150 MS/s		
Data storage	Memory depth 16	Memory depth 16 kpts - Storage of predefined or specific signals on USB drive		
Editing of signals with Sx-Gene	Acquisition, transfer & modification of a s	Acquisition, transfer & modification of a signal acquired from an oscilloscope (0X50000X6000, 0X7000,0X9000 Scopein@Box)		
Signal frequencies	uraphical or mathematical editing using the sk-uene so	twate. Mounication of a signal acquired and/or	compination of standard signals from the generato	
Frequency range	Sine from 0.001 mHz to 30.000 MHz, T	Sine from 0.001 mHz to 30.000 MHz, Triangle 500 kHz, Noise and Square 30 MHz, Pulse 12.5 MHz, Arbitrary Signal 6 MHz		
Resolution / Accuracy	7-digit display - 1	7-digit display - 1 mHz resolution - vertical accuracy <=(1%+1mVpp) at 10 kHz		
Long-term drift		± 100 ppm / an		
Temperature coefficient	< 5 ppm / °C			
Amplitude				
Voltage levels	$50 \Omega$ output = 2 mVss ~ 10 Vss < 10 MHz / 2 m	50 $\Omega$ output = 2 mVss ~ 10 Vss < 10 MHz / 2 mVss ~ 5 Vss $\geq$ 10 MHz / H/L output = 4 mVss ~ 20 Vss < 10 MHz / 4 mVss $\sim$ 10 Vss $\geq$ 10 MHz		
Flatness	7-digit display - 1	/-digit display - 1 mHz resolution - vertical accuracy <=(1%+1mvpp) at 10 kHz		
VDC offset	± IUU ppm / year			
Impedance / Protection		< 5 ppm / °C		
Signal characteristics			50 ID	
Sine	Typical distortion < 0.075 % for t < 20 kHz, and harmonics < -50 dBc			
Triangle (max. frequency 2 MHz)	Linearity error < 1% max			
Square & pulse	Kise time < 16.8 ns (typ.) - Dui	ty cycle IU-90% (UC < t < 20MHz) –Min. pulsed 32	.6 ns with I ns resolution	
AM N	Adulation	FMI	Modulation	
Larrier	Sine, Square, Irlangie, Arbitrary Sine, Square, Ramp, Noise, Arbitrary		Sine, Square, Iriangle, Arbitrary Sine, Square, Ramp, Triangle, Noise, Arbitrar	
Modulated signals	(1 mHz-20 kHz)	Modulated signals	(1 mHz-20 kHz)	
Depth	0% to 120%	Frequency shift	0 to 15 MHz	
FSK	Nodulation	ASK	Modulation	
Carrier	Sine, Square, Triangle, Arbitrary	Carrier	Sine, Square, Triangle, Arbitrary	
Modulated signals	50% duty cycle (1 mHz to 50 kHz)	Modulated signals	50% duty cycle (1 mHz to 50 kHz)	
PM N	dulation PWM Modulation		Modulation	
Carrier	Sine, Square, Triangle, Arbitrary	Frequency	1 mHz to 1 MHz	
Modulated signals	Sine, Square, Ramp, Triangle, Noise, Arbitrary	Modulated signals	Sine, Square, Triangle, Noise, Arbitrary	
Phase shift	0 to 360°	Resolution	6.67ns	
	Other fun	ctions		
	en Burst			
Carrier	Sine, Square, Ramp, Triangle, Arbitrary	Signals	Sine, Square, Ramp, Arbitrarv	
Туре	Linear/logarithmic	Type	Short (1-100,000 cvcles), Infinite. Gate	
Direction	Rising or falling	Phase start/ston	በ° to +360°	
Sween time	1 ms to 500 s	Internal nerind	1 us to 1000 s + 1%	
Trigger	Manual, External, Internal	-	-	
Frequency meter				
Measurement range	100 mHz to 200 MHz			
Parameters	Frequency, depth, period, duty cycle, pulse			
Harmonics function				
Graphical display	16 even or odd orders generated with amplitude and phase			
Combination of channels	2 internal abannala (NH (NA (NH)			
display of setup		Z IIILEITIAI CHAITIEIS CHI-CHZ- CHI+CHZ		
	General spec	ifications		
Data storage	Storage of predefined or specific signals and complete instrument configurations on USB drive			
Communication interface	USB Device, USB host -, LAN			
Main power supply	100~240 VRMS 45~440 Hz CAT II - < 50W			
Software	The SX-GENE software is av	The SX-GENE software is available for download from our support website with the LV and LW drivers		
Mechanical specifications	L	L x H x W = 260.3mm x 107 mm x 295 mm - 3.43 kg		
buarantee		2 years		
Reference to order	State	at delivery		
CV 1020				
	1 gene	i generator with $2P+E$ mains power cable, one USB cable and Quick Start Guide		
30 MHZ arbitrary function genera	on paper in 5 languages, User's Manual and software available for download			

## FRANCE

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