

GF-856 ARBITRARY WAVEFORM GENERATOR 5 MHz, 125 MS/s, USB, DIGITAL MODULATIONS

The 5 MHz multifunction generator **GF-856** which combines Arbitrary Waveform and Function Generator, uses DDS (Digital Data Storage) technology to offer two programmable signals in a 4 inches LCD colour screen. All basic waveform are pre-programmed. Besides using the front panel keyboard for programming, the program can be enhanced in the PC and send it through USB. One feature that makes the generator especially interesting is the possibility of playing all types of analog and digital modulations: AM, FM, PM, FSK and perform sweeps and burst. The **GF-856** also has an input for external modulation and external clock input. It includes a 6 digits frequency counter up to 200 MHz.



CREATE YOUR OWN WAVEFORMS USING THE PC SOFTWARE AND GENERATE THEM IN THE INSTRUMENT

- ✓ 4 inch high resolution (480 × 320 pixels) TFT LCD display
- ✓ Advanced DDS technology
- ✓ Sample rate 125 MS/s
- ✓ Frequency resolution 1 μ Hz
- ✓ Vertical resolution 14 bits
- ✓ Waveform record length 1 M
- ✓ 5 basic waveforms and 45 built-in arbitrary waveforms output
- ✓ Standard interface USB port
- ✓ PC software included

Specifications	GF-856	Arbitrary waveform	
Frequency output	5 MHz	Wave Length	2 pts to 8 K pts
Sample rate	125 MS/s	Non-volatile Memory	64 MB
Vertical resolution	14 bits	Modulation	
Waveform (output)		Modulation Waveform	AM, FM, PM, FSK, Sweep and Burst
Standard	Sine, Square, Pulse, Ramp and Noise	Modulation Frequency	2 MHz to 20 kHz (FSK 2 mHz - 100 kHz)
Arbitrary	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave and others, total 45 built-in waveforms and user-defined arbitrary waveform	Counter	
Frequency resolution		Function	Frequency, period, positive Pulse width, Duty cycle
Sine	1 μ Hz - 5 MHz	Frequency Range	100 MHz to 200 MHz
Square	1 μ Hz - 5 MHz	Resolution	6 digits
Pulse	1 μ Hz - 5 MHz	Input / output	
Ramp	1 μ Hz - 1 MHz	Display	4" (480 x 320 pixels) LCD
Noise	5 MHz (-3 dB) (typical)	Type	External reference clock input / output External trigger input / output External modulation input / output
Arbitrary waveform	1 μ Hz - 5 MHz	Communication Interface	USB host, USB device, LAN (support remote control)
Amplitude		Accessories	PC Software, quick reference guide, USB cable, power cord
Amplitude	1 m Vpp - 10 Vpp (50 Ω) 1 m Vpp - 20 Vpp (high impedance)	Mechanical features	
Resolution	1 m Vpp or 14 bits	Dimensions	235 (W.) x 110 (H.) x 295 (D.) mm
DC Offset	± 5 V (50 Ω), ± 10 V (high impedance)	Weight	3 kg
Resolution	1 mV		
Load impedance	50 Ω typical		