

## GF-856, GF-858 ARBITRARY WAVEFORM GENERATORS 25 MHz, 125 MS/s, USB, RS-232

The multifunction generators **GF-858** (25 MHz) and **GF-856** (5 MHz) 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. (also RS-232 in the model **GF-858**).

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 instruments also have an input for external modulation and external clock input. They include a 6 digits frequency counter up to 200 MHz.



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

- ✓ 4" high resolution (480 × 320 pixels) TFT LCD display
- ✓ Advanced DDS technology
- ✓ Sample rate 125 MS/s
- ✓ Frequency resolution 1 mHz
- ✓ 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	GF-858	SPECIFICATIONS	GF-856	GF-858	
Frequency output	5 MHz	25 MHz	<b>Arbitrary waveform</b> Wavelength Non-volatile Memory	2 pts to 8 K pts 26 waveforms		
Sample rate	125 MS/s			<b>Modulation</b> Modulation waveform Modulation frequency	AM, FM, PM, FSK, Sweep and Burst 2 mHz to 20 kHz (FSK 1 μHz a 100 kHz)	
Vertical resolution	14 bits				<b>Counter</b> Function  Frequency range Resolution	Frequency, period, positive pulse width, duty cycle 100 mHz to 200 MHz 6 digits
<b>Waveform</b> Standard Arbitrarias	Sine, Square, Ramp, Pulse, Noise Exponential Rise, Exponential fall Sin(x)/x, Step Wave, etc. Total 45 built-in waveforms and user-defined arbitrary waveforms.		<b>Input / Output</b> Display Type	4" (480 x 320 pixels) LCD External reference clock input / output External trigger input / output External modulation input / output		
	<b>Frequency resolution</b> Sine Square Pulse Ramp Ruido Arbitrary waveform	1 μHz to 5 MHz		1 μHz to 25 MHz	1 μHz to 5 MHz 1 μHz to 5 MHz 1 μHz to 1 MHz 5 MHz (-3 dB) typ. 1 μHz to 5 MHz	
<b>Amplitude</b>	1 m Vpp to 1 Vpp (50 Ω) 1 m Vpp to 20 Vpp (high impedance) 1 m Vpp or 14 bits		<b>Communication interface</b>	USB host, USB device, LAN (remote control)	USB host, USB device, LAN (remote control), RS-232	
<b>DC Offset</b> Resolution Load impedance	± 5 V (50 Ω), ±10 V (high impedance) 1 mV 50 Ω typical		<b>Accessories</b>	PC Software, Quick reference guide, USB cable, Power cord		
			<b>Mechanical features</b>	235 (W.) x 110 (H.) x 295 (D.) mm 3 kg.		