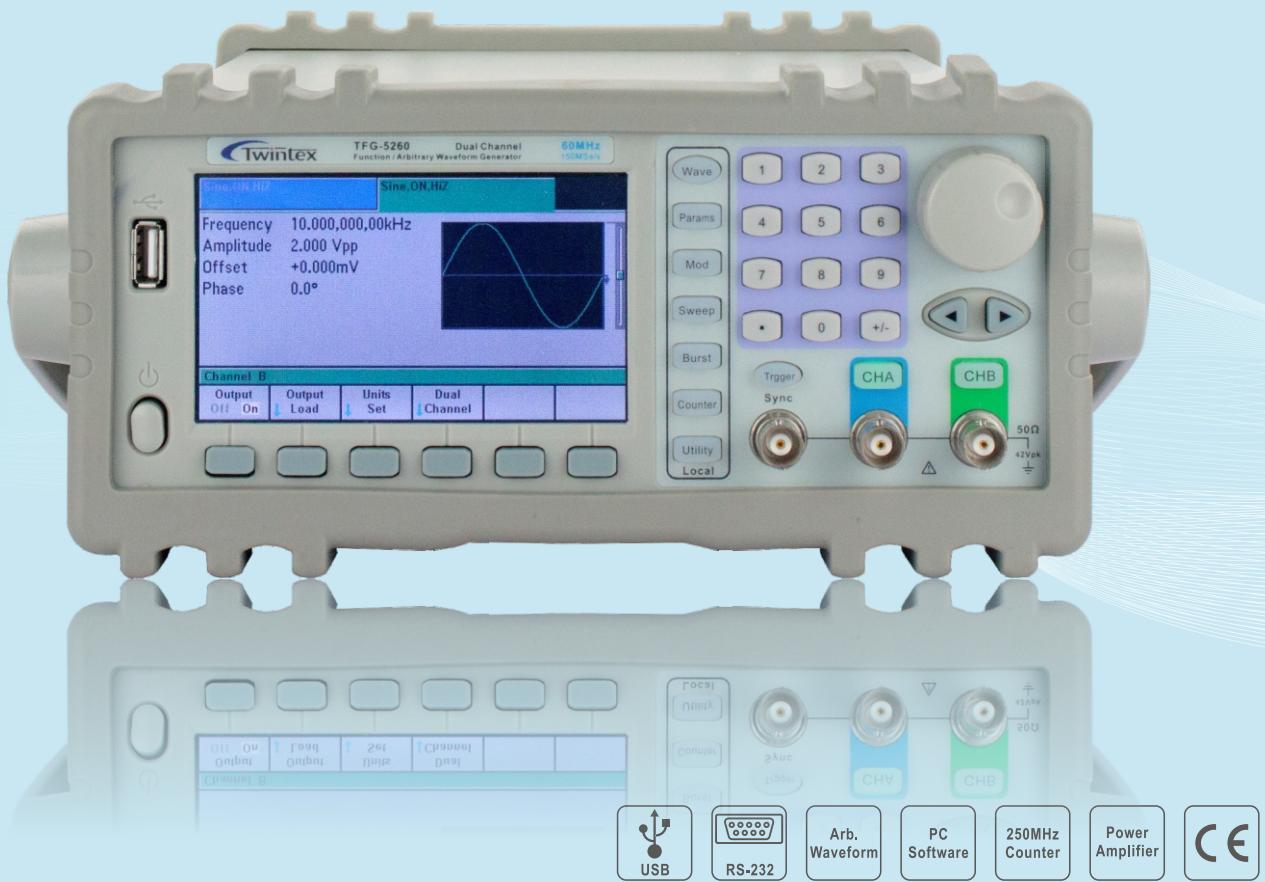


TFG5200 SERIES



FEATURES

- Frequency range 1μHz~25MHz/40MHz/60MHz
- 2 independent output channels at same frequency range for main waveforms
- 4.5-inch TFT LCD display
- Min. output amplitude 1mVpp (50Ω), total distortion 0.2%
- Sampling rate 150MSa/s, vertical resolution 14 bits, waveform length 16k points
- 6 standard waveforms, 50 built-in waveforms and 12 user-defined arbitrary waveforms
- 10 sets save & recall for operating parameters
- Modulations: AM, DSSC AM, FM, PM, ASK, FSK, BPSK
- Synchronous output, external modulation input, trigger input, external reference input and count input
- Linearity/Logarithmic sweep signal and Burst signal
- Channel coupling, parameter (frequency, amplitude, offset, phase) coupling, point frequency replication tracking
- Strong arbitrary waveform building software, support SCPI commands
- Over voltage, over current, short circuit and reverse voltage protections
- Standard USB device and RS-232 interface for PC remote control
- Standard USB Host interface for external save & recall
- Standard 250MHz external frequency counter
- Optional power amplifier

DDS Function Generator

ARBITRARY WAVEFORM, 1uHz~60MHz

SPECIFICATIONS

Model	TFG-5225	TFG-5240	TFG-5260
Waveform			
Output waveform	Sine, Square, Ramp, Pulse, Noise, Arb, DC		
Waveform length	8~16384 points (CHA); 8~2048 point (CHB)		
Vertical resolution	14 bits		
Sampling rate	150MSa/s		
Sine	Harmonics distortion	< -70dBc (< 20kHz); < -50dBc (20kHz~1MHz); < -40dBc (1MHz~30MHz); < -30dBc (30MHz~60MHz)	
	Total distortion	≤0.2% (20Hz ≤ f ≤ 100 kHz)	
Square	Rise/fall edge	18ns	
Pulse	Duty cycle	0.1%~99.9%	
	Edge jitter	≤150ps rms	
Ramp	Symmetry	0.0%~100.0%	
	Non-linearity	≤0.1% (5%~95% of signal)	
Noise	Repeat cycle	>50 years	
Arbitrary	Sampling rate	1μSa/s~50MSa/s	
	Vertical resolution	14bits	
Frequency			
Range	Sine	1μHz~25MHz	1μHz~40MHz
	Square	1μHz~5MHz	1μHz~10MHz
	Ramp	1μHz~500kHz	1μHz~1MHz
	Pulse	1μHz~5MHz	1μHz~10MHz
	Noise	30MHz white noise (-3dBm)	1μHz~15MHz
	Arbitrary	1μHz~6.5MHz	
Resolution		1μHz	
Accuracy		≤±5×10 ⁻⁵	
Output Characteristics			
Amplitude	CHA range	2mVpp~20Vpp (≤20MHz); 2mVpp~10Vpp (≤60MHz) (High impedance)	
		1mVpp~10Vpp (≤20MHz); 1mVpp~5Vpp (≤60MHz) (50Ω)	
	CHB range	2mVpp~6Vpp (High impedance); 1mVpp~3Vpp (50Ω)	
	Flatness (1kHz)	±0.1dB (<100kHz); ±0.3dB (100kHz~10MHz); ±0.5dB (10MHz~60MHz)	
Offset	CHA level range	±(10VDC~AC peak/2) (High impedance); ±(5VDC~AC peak/2) (50 Ω)	
	CHB level range	±(189.3mVDC~AC peak/2) (High impedance); ±(94.7mVDC~AC peak/2) (50Ω)	
	CHA accuracy	±1% offset setting value ±0.25% amplitude setting value ±2mV	
	CHB accuracy	±1% offset setting value ±0.25% amplitude setting value ±3mV	
Modulations	AM depth	0.0%~120.0%	
	FM deviation	0~fc/2	
	PM range	0.0°~360.0°	
	FSK	1μHz~Fsine max (Sine); 1μHz~Fsquare max (Square/Pulse); 1μHz~1MHz (Ramp)	
	BPSK	0.0°~360.0°	
	ASK	2mVpp~20Vpp	
Sweep	Time: 0.001s~1000s; Trigger source: Int/Ext/Bus; Mode: Linearity/Logarithmic		
Burst	Mode: N Cycle/Gated; Numbers: 1~1000000, resolution 1; Interval time: 1μs~1000s, resolution 1μs		
Pulse	Width 28.5ns~period-28.5ns; Overshoot ≤2%(CHA) (50Ω); Edge jitter ≤150ps rms		
Frequency counter	0.1Hz~250 MHz; Resolution: 6 digits/s		
Power amplifier (optional)	1Hz~200kHz; Max. output power 5W sine wave		
General			
Interface	USB Device, USB Host, RS-232		
Power source	AC110V/220V±10% selectable, 50/60Hz, Max. 30VA		
Accessories	Power cord x1, Operation manual x1, Software CD x1, USB cable x1, RS-232 cable x1 BNC-BNC cable x1, Test lead x1		
Dimension (WxHxD)	260x110x385mm		
Weight	4kg		