

CFG4000 Series Arbitrary Waveform Generators



Introduction

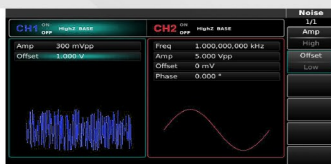
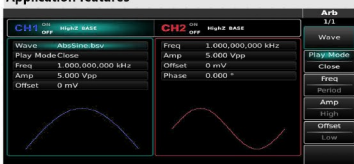
The **CFG4000** Series waveform generators are applied to a wide range of application domain, integrating multiple waveforms for Function Generation, Arbitrary Waveform Generation, Pulse Generation, Harmonic Generation, Analog/Digital Modulation source.

The **CFG4000** Series is a waveform generator with high sampling rate up to 500MS/s, MAX waveform length up to 32Mpts. To generate stable, precise, low distortion signals. The **CFG4000** Series adopts Direct Digital Synthesizer (DDS) technology. User-friendly interface design with high resolution 8 inches display screen and rational panel layout to improve operational efficiency.

Features

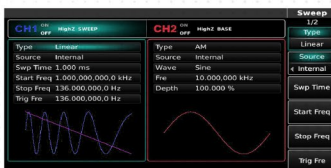
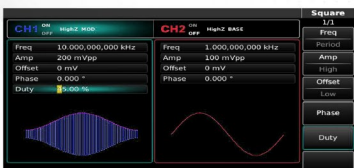
- 80MHz/120MHz/160MHz sine waveform output, 1 μ Hz full-band resolution
- 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time
- 500MSa/s sampling rate, 16 bits vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 32Mpts arbitrary waveform length, 7GB non-volatile arbitrary waveforms
- Versatile modulation options: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- Frequency counter range: 100mHz~ 800MHz
- 8 inches TFT LCD, WVGA (800 $\times$ 480)
- Standard Ports: USB Host, USB Device, LAN, 10MHz Input, 10MHz Output, Frequency Counter, FSK Trig, Modulation In

Application features



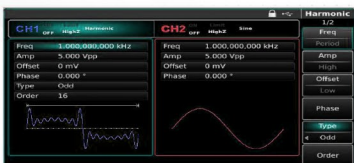
Built-in arbitrary waveform available at any time

Noise modes



Rich modulation functions

Linear and logarithmic sweep waveform



Customize harmonic generation function

Special digital interface (optional)

Technical Specifications

Model	CFG4080	CFG4120	CFG4160
Max. frequency	80MHz	120MHz	160MHz
Channels	2		
Sampling rate	500MS/s		
Waveforms	Sine, square, ramp, harmonic, pulse, noise, DC voltage, arbitrary		
Working modes	Output on/off, continuous, modulation, sweep, burst		
Modulation types	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM		
Frequency Characteristics			
Sine	1μHz~80MHz	1μHz~120MHz	1μHz~160MHz
Square/Pulse	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Slope	1μHz~2MHz	1μHz~3MHz	1μHz~4MHz
Harmonic	1μHz~40MHz	1μHz~60MHz	1μHz~80MHz
Noise (-3dB)	80MHz bandwidth	120MHz bandwidth	160MHz bandwidth
Resolution	1μHz		
Arbitrary Waveform			
Frequency range	1μHz~20MHz	1μHz~30MHz	1μHz~40MHz
Memory depth	8pts~32Mpts		
Vertical resolution	16bits		
Min rise/fall time (typical: 1Vpp)	< 7ns	< 6ns	< 5ns
General Characteristics			
Power	100V~240V AC, 50Hz/60Hz		
Display	8 inches TFT LCD, WVGA (800 x 480)		
Product color	White and grey		
Product net weight	3.5kg		
Product size	336mm x 164mm x 108mm		
Standard quantity per carton	1 pcs		
Standard carton size	405mm x 225mm x 265mmv		
Standard carton gross weight	4.8kg		
Ordering Information			
CFG4000 Series	CFG4160 (160MHz, 500MSa/s, 32Mpts, 2-Channel)		CFG4160
	CFG4120 (120MHz, 500MSa/s, 32Mpts, 2-Channel)		CFG4120
	CFG4080 (80MHz, 500MSa/s, 32Mpts, 2-Channel)		CFG4080
Standard Accessories	Power cord conforming to the standard of the destination country		/
	USB interface cable		UT-D14
	2 BNC cables(1M)		/
	User Manual and Software Download Guide		/
Optional Accessories	digital cable		UIT-I102