



Waveform Generator | HDG6000B Series

2-Channels, 200MHz Output, 16-Bit,
1.25GSa/s, 64M Memory Depth



Product Features

- Output frequency range: 1 μ Hz ~ 200MHz / 160MHz / 110MHz / 80MHz;
- Up to 1.25GSa/s sampling rate, 16bits vertical resolution;
- Built-in 16-order harmonic generator;
- 16 channels digital output together with the analog channels can rebuild the more mixed signals;
- Up to 64M memory depth, ensuring better waveform detail creation;
- 7-inch color TFT LCD display;
- Continuous, sweeping, burst and modulation modes (AM, FM, PM, 2ASK, 2FSK, 2PSK, PWM), covers most test requirements;
- Built in 200MHz counter with 7-digit resolution;
- More than 150 arbitrary waveforms built-in generate all kinds of waveforms needed in a laboratory.

Model		HDG6202B	HDG6112B	HDG6202C	HDG6112C
Channels		2			
Waveform Length		64M			
Max. Frequency		200MHz	110MHz	200MHz	110MHz
Sampling Rate		1.25GSa/s			
Voltage Resolutio		16bits			
Standard waveforms		sine, square, triangle, pulse, noise, harmonic			
Arb. Waveforms		> 150			
Frequency Range	Sine	1μHz~200MHz	1μHz~110MHz	1μHz~200MHz	1μHz~110MHz
	Square	1μHz~60MHz	1μHz~50MHz	1μHz~60MHz	1μHz~50MHz
	Pulse	1μHz~50MHz	1μHz~40MHz	1μHz~50MHz	1μHz~40MHz
	Triangle	1μHz~5MHz	1μHz~4MHz	1μHz~5MHz	1μHz~4MHz
	Harmonic	1μHz~50MHz	1μHz~50MHz	1μHz~50MHz	1μHz~50MHz
	Noise Bandwidth (~3dB)	120MHz	120MHz	120MHz	120MHz
Arbitrary		1μHz~50MHz	1μHz~40MHz	1μHz~50MHz	1μHz~40MHz
Frequency Resolution		1μHz			
Internal Frequency Reference Accuracy		±1ppm, 18~28°C			
Amplitude Range (50Ω)		≤20MHz: 1mVpp ~ 20Vpp			
		≤80MHz: 1mVpp ~ 5Vpp			
		≤110MHz: 1mVpp ~ 2Vpp			
		≤200MHz: 1mVpp ~ 1Vpp			
Amplitude Accuracy		Typical (1KHz sine wave, 0V offset, >10mVpp)			
		(±1%±2mVpp of setting)			
Modulation Modes		AM, FM, PM, 2ASK, 2FSK, 2PSK, BPSK, QPSK, 3FSK, 4FSK, OSK, PWM			
Modulation Source		Internal, external			
Operating Modes		Continuous, gated burst, frequency sweep, modulate			
Amplitude Units		Vpp, mVpp, Vrms, dBm (50 Ω impedance)			
Amplitude Resolution		1mVpp			
Internal Reference Output Level		3.3Vpp			
Input Frequency Range		10MHz ± 50Hz			
Output Impedanc		50Ω, DC Coupling			
Frequency Counter	Measurement Fur	Frequency, period, positive/negative pulse width, duty cycle			
	Frequency Resolu	7 digits			
	Frequency Range	1μHz~80MHz			
	Gate Time	10ms~16s			
	Input Signal Rang	0~3.3V			
	Connectors	USB HostUSB Device		USB Host, USB Device, LAN	
Display		7 inch, 64K color, TFT LCD, 800 × 640			
Power Voltage		100-120VAC _{RMS} (±10%), 45Hz to 440Hz, CATII			
		120-240VAC _{RMS} (±10%), 45Hz to 66Hz, CATII			
Power Consumption		<30W			
Fuse		T, 0.25A, 250V, 5x20mm			
Temperature		Operating: 10 ° C to 40 ° C			
		Stoage: -20 ° C to 60 ° C			
Cooling Method		Fan cooling			
Operating Humidity		≤+104°F (≤+40°C): ≤ 90% relative humidity			
		106°F~122°F (+41°C ~50°C): ≤ 60% relative humidity			
Altitude		Operating: Below 3,000 meters			
		Non operating: Below 15,000 meters			
Dimension		318mm x 110mm x 150mm (W × H × D)			
Weight		3kg			