

DG1000 Series Function/Arbitrary Waveform Generators



Advanced Performance

Waveforms	
Standard Waveforms	Sine, Square, Ramp, Pulse, Noise, Exponential Rise, Exponential Fall, Sinc, Cardiac, DC Arbitrary Waveform
Waveform Length	2 to 4K points
Non-Volatile Memory	Maximum 4 waveforms
Frequency	500 μ Hz~3 MHz
Vertical Resolution	14bits
Sample Rate	100 MSa/s
Frequency Characteristics	
Sine	DG1011: 1 μ Hz ~ 15 MHz DG1021: 1 μ Hz~20 MHz
Square	1 μ Hz ~ 5 MHz
Pulse	500 μ Hz ~ 3 MHz
Ramp	1 μ Hz ~ 150 kHz
White Noise	5 MHz of bandwidth
Arbitrary Waveform	1 μ Hz ~ 3 MHz
Resolution	1 μ Hz
Other Characteristics	
Amplitude (into 50 Ω)	20 mVpp to 10 Vpp
Accuracy (1 kHz)	\pm 1% of setting \pm 1 mVpp
AM Modulation	
Carrier Waveforms	Sine, Square, Ramp, Arbitrary Waveform
Modulating Waveforms	Sine, Square, Ramp, Triangle, Noise, Arbitrary Waveform (2 mHz to 20 kHz)
Modulating Depth	
FM Modulation	0 ~ 120%
Carrier Waveforms	
Modulating Waveforms	Sine, Square, Ramp, Arbitrary Waveform
Deviation	Sine, Square, Ramp, Triangle, Noise, Arbitrary Waveform (2 mHz to 20 kHz) DC to 5 MHz

FSK Modulation	
Carrier Waveforms	Sine, Square, Ramp, Arbitrary Waveform
Modulating Waveforms	50% duty cycle Square (2 mHz to 50 kHz)
PM Modulation	
Carrier Waveforms	Sine, Square, Ramp, Arbitrary Waveform
Modulating Frequency	Sine, Square, Ramp, Triangle, Noise, Arbitrary Waveform (2 mHz to 20 kHz)
Phase Deviation	0°~360°
Sweep	
Carrier Waveforms	Sine, Square, Ramp, Arbitrary Waveform
Type	Linear or Logarithmic
Direction	Up or Down
Sweep Time	1 ms to 500 s \pm 0.1%
Trigger Source	Manual/Internal/External
Marker	Fall Edge of Sync Signal (frequency alterable)
Burst	
Waveforms	Sine, Square, Ramp, Pulse, Noise, Arbitrary
Type	count 1 to 50,000 cycles, infinite, gated
Start/Stop Phase	-360° to +360°
Internal Period	1 μ s to 500 s \pm 0.1%
Gated Source	External Trigger
Trigger Source	Manual/Internal/External
Counter	
Measurement Functions	Frequency, period, pulse width (positive/negative), duty cycle
Frequency Range	Single channel, 100 mHz~200 MHz
Frequency Resolution	6 bits
Other Parameters	10 MHz
Clock Reference	USB Host, USB Device
Standard I/O	Chinese/English
Internal Help System	Worldwide Use, 100 ~ 240 VAC _{rms} /40 W Max
Power	
Weight	2.7 kg

DG1000 Series

Function/Arbitrary Waveform Generators



Standard Accessories



Power Cord



USB Data Wire



Ultrasound Software CD-ROM (Waveforms Editor)



User Manual and product guarantee card

Optional Accessories



BNC Coaxial-Cable

- Advanced DDS technology, 20 MHz maximum output frequency.
- 100 MSa/s maximum sample rate, 14 bits vertical resolution, 4K points of memory depth.
- High accuracy and wide bandwidth frequency counter inside, range up to 200MHz.
- USB Device & Host interface configured, to support USB disk storage.
- Seamless connectivity with DS series Oscilloscopes.

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