

DG3000 Series Function/Arbitrary Waveform Generators

*120 MHz maximum output frequency
Optional Digital Logic Output Module
512 kpts of Waveform Length*



► Application Areas

- Simulation of Analog Sensor and Real World Signals
- In-circuit Functional Test
- Serial Bus Test
- IC Test

► Features and Benefits

1. The world's first Mixed Signal Generator (MSG) with 16 logic channels and 2 clock channels
2. Advanced Direct Digital Synthesis (DDS) Technology, 300 MSA/s maximum sample rate and 120 MHz maximum output frequency, 14 bits vertical resolution, 512 kpts of Waveform Length
3. Connectivity: USB Host, USB Device, LAN, GPIB and RS-232
4. Connect to RIGOL DS1000 series digital oscilloscopes directly

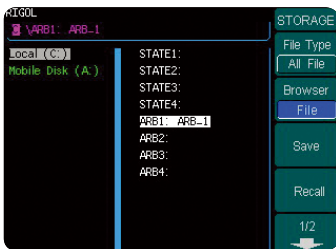
Model	DG3121A	DG3101A	DG3061A
Maximum Output Frequency	120 MHz	100 MHz	60 MHz
Connectivity	USB Device, LAN, GPIB, RS-232, USB Host		
Option	Logic Signal Output Module		

► Specifications

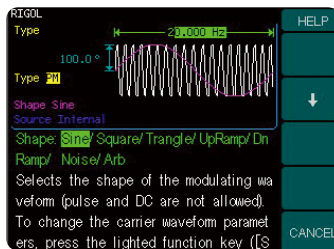
Model	DG3121A	DG3101A	DG3061A
Standard Waveform	Sine, Square, Ramp, Triangle, Pulse, White noise, DC, Index up, Index down, Sinc, Electrocardiogram		
Frequency characteristics			
Sine	1 μ Hz ~ 120 MHz	1 μ Hz ~ 100 MHz	1 μ Hz ~ 60 MHz
Square	1 μ Hz ~ 60 MHz	1 μ Hz ~ 50 MHz	1 μ Hz ~ 30 MHz
Pulse	500 μ Hz ~ 30 MHz	500 μ Hz ~ 25 MHz	500 μ Hz ~ 20 MHz
Ramp	1 μ Hz ~ 1 MHz	1 μ Hz ~ 1 MHz	1 μ Hz ~ 1 MHz
White Noise	50 MHz bandwidth (-3dB)	40 MHz bandwidth (-3dB)	30 MHz bandwidth (-3dB)

Output Mode	
Burst	Count (1 to 65,536 periods), Infinite, gated
Sweep	Linear or Logarithmic
Amplitude Characteristics	
Amplitude	10 mVpp ~ 10 Vpp (into 50 Ω) 20 mVpp ~ 20 Vpp (into open circuit)
Modulate Characteristics	
Mode	AM, FM, PM, FSK, PWM-internal or external
Frequency of Modulation Waveform	2 mHz ~ 20 kHz (FSK 2 mHz to 100 kHz)
Arbitrary Waveform Characteristics	
Frequency Range	1 μ Hz ~ 25 MHz
Waveform Length	2 pts ~ 512 kpts
Amplitude Resolution	14 bits
Sample Rate	300 MSa/s
Arbitrary Waveform Characteristics	
Connectivity	USB Host, USB Device, RS-232, LAN, GPIB
Power Supply	AC, 100-240 V, 45-440 Hz, 50 VA Max

► Intuitive User Interface



File System: Easy-to-use
Support USB flash drive and local files storage



Built-in Help System
Press and hold a key for 3 seconds to enter help system

► Logic Signal Output Module

With the Logic Signal Output Module, RIGOL DG3000 series is the worldwide first Mixed Signal Generator (MSG) featuring 16 digital data channels and 2 clock channels.



Logic Signal Output Module

► Optional Accessories



10W Power Amplifier PA1011

► Optional Accessories



BNC Cable



RS-232 Cable



50 Ω Impedance Adaptor



40 dB Attenuator