



AG051 & 101(-F)

Single-channel Arbitrary Waveform Generator

- + Advanced DDS technology, 5MHz /10MHz frequency output
- + 125MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, and 8K arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, Sweep, and Burst
- + SCPI supported
- + 4" high resolution (480 x 320 pixels) LCD

+ Performance Specifications

Model	AG051	AG051F	AG101	AG101F
Channel	single + trigger			
Frequency Output	5MHz		10MHz	
Sample Rate	125MS/s			
Vertical Resolution	14 bits			

Waveform

Standard Waveform	Sine, Square, Pulse, Ramp, and Noise
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrary waveform

Frequency (resolution 1μHz)

Sine	1μHz - 5MHz	1μHz - 10MHz
Square	1μHz - 5MHz	
Pulse	1μHz - 5MHz	
Ramp	1μHz - 1MHz	
Noise	5MHz (-3dB) (typical)	
Arb	1μHz - 5MHz	

Amplitude

Amplitude	1m Vpp - 12.5 Vpp (50Ω), 1m Vpp - 25 Vpp (high impedance)
Resolution	1mVpp, or 4 digits
DC Offset Range (AD+DC)	±6.25V (50Ω), ±12.5V (high impedance)
DC Offset Range Resolution	1mV, or 4 digits
Load Impedance	50Ω (typical)

Arbitrary Waveform

Model	AG051	AG051F	AG101	AG101F
Wave Length	2 pts to 8K pts			
Sample Rate	125MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	64M bytes			

Modulation

Modulation Waveform	/	AM, FM, PM, FSK, Sweep, and Burst	/	AM, FM, PM, FSK, Sweep, and Burst
Modulation Frequency	/	2mHz to 20.00KHz (FSK 2mHz - 100KHz)	/	2mHz to 20.00KHz (FSK 2mHz - 100KHz)

Input / Output

Display	4 inch (480 x 320 pixels) LCD			
Type	external reference clock input	external modulation input, external trigger input, and external reference clock input	external reference clock input	external modulation input, external trigger input, and external reference clock input
Communication Interface	USB device			

Mechanical

Dimension (W x H x D)	235 x 110 x 295 (mm)
Device Weight	3.00 kg

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB



Q9

AG Series Dual-channel Arbitrary Waveform Generator

Accessories

The accessories subject to final delivery.



Power Cord



CD-Rom



Manual



BNC



USB

DDS



Main Feature

- + Advanced DDS technology, max 60MHz frequency output
- + Up to 250MS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 48 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- + Supported SCPI
- + 4 inch high resolution (480 × 320 pixels) TFT LCD display

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Performance Specifications

Model	AG1012	AG1012F	AG1022	AG1022F	AG2052F	AG2062F
Channel	dual					
Frequency Output	10MHz		25MHz		50MHz	60MHz
Sample Rate	125MS/s				250MS/s	
Vertical Resolution	14 bits					
Waveform						
Standard Waveform	Sine, Square, Pulse, Ramp, and Noise					
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 48 built-in waveforms, and user-defined arbitrary waveform					
Frequency (resolution 1μHz)						
Sine	1μHz - 10MHz		1μHz - 25MHz		1μHz - 50MHz	1μHz - 60MHz
Square	1μHz - 5MHz				1μHz - 25MHz	1μHz - 30MHz
Pulse	1μHz - 5MHz				1μHz - 10MHz	
Ramp	1μHz - 1MHz					
Noise	25MHz (-3dB) (typical)					
Arbitrary Waveform	1μHz - 10MHz					
Amplitude						
Amplitude	1m Vpp - 10 Vpp (50Ω), 1m Vpp - 20 Vpp (high impedance)					
Resolution	1m Vpp or 14 bits					
DC Offset Range (AD+DC)	±5V (50Ω), ±10V (high impedance)					
DC Offset Range Resolution	1mV					
Load Impedance	50Ω (typical)					
Model	AG1012	Ag1022	AG1012F	AG1022F	AG2052F	AG2062F
Arbitrary Waveform						
Wave Length	2 pts to 8K pts				2 pts to 1M pts	
Sample Rate	125MS/s				250MS/s	
Vertical Resolution	14 bits					
Non-volatile Memory	26 waveforms					
Modulation						
Modulation Waveform	/		AM, FM, PM, FSK, Sweep, and Burst		AM, FM, PM, FSK, PWM, Sweep, and Burst	
Modulation Frequency	/		2mHz to 20.00KHz (FSK 1μHz - 100KHz)			
Counter						
Function	/		Frequency Period, +Width, -Width, +Duty, and -Duty			
Frequency Range	/		100mHz - 200MHz			
Frequency Resolution	/		6 digits			
Input / Output						
Display	4 inch (480 × 320 pixels) TFT LCD					
Type	external reference clock input / output		counter external modulation input / output, external trigger input / output, external reference clock input / output			
Communication Interface	USB host, USB device, RS232					
Mechanical						
Dimension (W×H×D)	235 × 110 × 295 (mm)					
Weight (without package)	3.00 kg					

Specifications subject to change without prior notice.