

**AG Series** Arbitrary Waveform Generator



- + Advanced DDS technology, max 150MHz frequency output
- + Up to 400MS/s sample rate, and 32 bits frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 26 built-in arbitrary waveforms
- + 32 channels digital signal (optional)
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + Newly supported SCPI
- + 3.9 inch high resolution (480 × 320 pixels) TFT LCD display



**+ Performance Specifications**

Model	AG1012	AG1022	AG1022F	AG2052F	AG4151
Channel	dual			dual	single + trigger
Frequency Output	10MHz	25MHz		50MHz	150MHz
Sample Rate	125MS/s			200MS/s	400MS/s
Vertical Resolution	14 bits				
<b>Waveform</b>					
Standard Waveform	Sine, Square, Pulse, Ramp, and Noise				
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 26 built-in waveforms, user-defined arbitrary waveform, and 32 channels digital signal (optional only in AG4151)				
<b>Frequency (resolution 32 bits)</b>					
Sine	1µHz - 10MHz	1µHz - 25MHz		1µHz - 50MHz	1µHz - 150MHz
Square	1µHz - 5MHz			1µHz - 25MHz	1µHz - 50MHz
Pulse	1µHz - 5MHz			1µHz - 10MHz	1µHz - 25MHz
Ramp	1µHz - 1MHz				
Noise	25MHz (-3dB) (typical)			50MHz (-3dB) (typical)	
Arb	1µHz - 10MHz				
<b>Amplitude</b>					
Amplitude	1m Vpp - 10 Vpp (50Ω), 1m Vpp - 20 Vpp (high impedance)			10m Vpp - 10 Vpp (50Ω), 10m 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)				

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<b>Arbitrary Waveform</b>					
Wave Length	2 pts to 8K pts			2 pts to 1M pts	
Sample Rate	125MS/s			200MS/s	
Vertical Resolution	14 bits				
Non-volatile Memory	26 waveforms				
<b>Modulation</b>					
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)			
<b>Counter</b>					
Function	/	Frequency Period, +Width, -Width +Duty, and -Duty			/
Frequency Range	/	100mHz - 200MHz			/
Frequency Resolution	/	6 digits/s			/
<b>Input / Output</b>					
Display	3.9 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		external modulation input / output, external trigger input / output, external reference clock input / output	
Communication Interface	USB host, USB device, RS232			USB host, USB device, RS232, LAN	
<b>Mechanical</b>					
Dimension (W×H×D)	235 × 110 × 295 (mm)				
Weight (without package)	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.

