

# AG-Series

## Dual-channel Arbitrary Waveform Generator

- + Advanced DDS technology, max 60MHz frequency output
  - + Up to 250MS/s sample rate, and 1 $\mu$ Hz frequency resolution
  - + Vertical Resolution : 14 bits, up to 1M arb waveform length
  - + Comprehensive waveform output : 5 basic waveforms, and 45 built-in arbitrary waveforms
  - + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
  - + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
  - + SCPI, and LabVIEW supported
  - + 4 inch high resolution (480 × 320 pixels) LCD
- + *could work with OWON SDS Series DSO smoothly*



### + 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 45 built-in waveforms, and user-defined arbitrary waveform

### Frequency (resolution 1 $\mu$ Hz)

Sine	1 $\mu$ Hz - 10MHz	1 $\mu$ Hz - 25MHz	1 $\mu$ Hz - 50MHz	1 $\mu$ Hz - 60MHz
Square	1 $\mu$ Hz - 5MHz		1 $\mu$ Hz - 25MHz	1 $\mu$ Hz - 30MHz
Pulse	1 $\mu$ Hz - 5MHz		1 $\mu$ Hz - 10MHz	
Ramp	1 $\mu$ Hz - 1MHz			
Noise	25MHz (-3dB) (typical)			
Arb	1 $\mu$ Hz - 10MHz			

### Amplitude

Amplitude	1mVpp - 10Vpp (50 $\Omega$ ), 1mVpp - 20Vpp (high impedance)
Resolution	1mVpp or 4 digits
DC Offset Range (AD+DC)	$\pm$ 5V (50 $\Omega$ ), $\pm$ 10V (high impedance)
DC Offset Range Resolution	1mV or 4 digits
Load Impedance	50 $\Omega$ (typical)

### Arbitrary Waveform

Wave Length	2 pts to 8K pts	2 pts to 1M pts
Non-volatile Memory	64M byte	

### 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)	

### Cymometer

Function	/	Frequency Period, +Width, -Width, +Duty, and -Duty
Frequency Range	/	100mHz ~ 200MHz
Frequency Resolution	/	6 digits/s

### Power Amplifier Module (optional)

Input Impedance	50 kΩ	Output Impedance	<2 Ω
Max Input Voltage	2.2Vpp	Gain	X 10
Max Output Voltage	22 Vpp	Offset	<7%
Output Slew Rate	10V/us	Bandwidth (at full power)	DC 100kHz
Max Output Power	10 W		

### Input / Output

Display	4 inch (480 × 320 pixels) LCD		
Type	external reference clock input / output	counter	external modulation input , external trigger input , external reference clock input / output
Communication Interface	USB host, and USB device, RS232 (option)		

### Mechanical

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

Specifications subject to change without prior notice.

### + Application

design and debug      circuit function test      education & training

### + Accessories

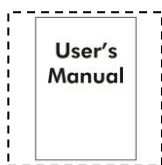
The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Q9 Cable

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