

# AG-S Series Single-channel Arbitrary Waveform Generator - {80 - 150MHz}



- + Advanced DDS technology, max 150MHz frequency output
- + Up to 400MS/s sample rate, and 1μHz 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
- + SCPI, and LabVIEW supported
- + 4 inch high resolution (480 x 320 pixels) LCD
- + could work with OWON SDS Series DSO smoothly

## + Performance Specifications

Model	AG4081	AG4101	AG4121	AG4151
Channel	single + trigger			
Frequency Output	80MHz	100MHz	120MHz	150MHz
Sample Rate	400MS/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 - 80MHz	1μHz - 100MHz	1μHz - 120MHz	1μHz - 150MHz
Square	1μHz - 40MHz	1μHz - 50MHz		
Pulse	1μHz - 20MHz	1μHz - 25MHz		
Ramp	1μHz - 1MHz			
Noise	50MHz (-3dB) (typical)			
Arbitrary Waveform	1μHz - 10MHz			

### Amplitude

Amplitude	10m Vpp - 10 Vpp (50Ω), 20m Vpp - 20 Vpp (high impedance)
Resolution	1m Vpp or 4 digits
DC Offset Range (AD+DC)	±5V (50Ω), ±10V (high impedance)
DC Offset Range Resolution	1mV or 4 digits
Load Impedance	50Ω (typical)

Model	AG4081	AG4101	AG4121	AG4151
<b>Arbitrary Waveform</b>				
Wave Length	2 pts to 1M pts			
Sample Rate	200MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	64M byte			
<b>Modulation (optional)</b>				
Modulation Waveform	AM, FM, PM, FSK, PWM, Sweep, and Burst			
Modulation Frequency	2mHz to 20.00KHz (FSK 1μHz - 100KHz)			
<b>Input / Output</b>				
Display	4 inch (480 x 320 pixels) LCD			
Type	external modulation input, external trigger input / output, external reference clock input / output			
Communication Interface	USB host, USB device, RS232, and LAN			
<b>Mechanical</b>				
Dimension (W x H x D)	235 x 110 x 295 (mm)			
Device Weight	3.00 kg			

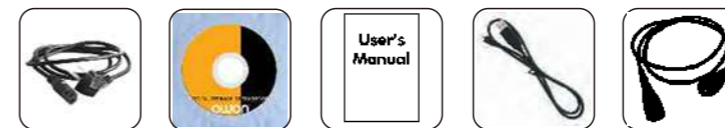
Specifications subject to change without prior notice.

## + Application

design and debug    circuit function test    education and training

## + Accessories

The accessories subject to final delivery.



Power Cord    CD Rom    Manual    USB Cable    Q9

# AG-S Series Single-channel Arbitrary Waveform Generator - {5 - 10MHz}



- + Advanced DDS technology, upto 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, and LabVIEW 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)	
Arbitrary Waveform	1μHz - 5MHz	

### Amplitude

Amplitude	1m Vpp - 12.5 Vpp (50Ω), 1m Vpp - 25 Vpp (high impedance)
Resolution	1m Vpp, 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)

Model	AG051	AG051F	AG101	AG101F
<b>Arbitrary Waveform</b>				
Wave Length	2 pts to 8K pts			
Sample Rate	125MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	64M byte			
<b>Modulation (optional)</b>				
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)
<b>Input / Output</b>				
Display	4 inch (480 x 320 pixels) LCD			
Type	external reference clock input	external modulation input, external trigger input, external reference clock input	external reference clock input	external modulation input, external trigger input, external reference clock input
Communication Interface	USB device			
<b>Mechanical</b>				
Dimension (W x H x D)	235 x 110 x 295 (mm)			
Device Weight	3.00 kg			

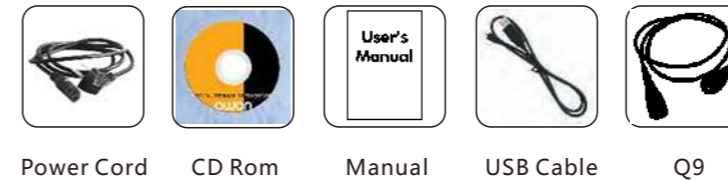
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