



owon AG series products are multi-function generators which combine Arbitrary Waveform Generation and Function Generation. The product introduces Direct Digital Synthesizer (DDS) technology to provide stable, precise, pure and low distortion signal. The user-friendly interface design and panel layout bring exceptional user experience. Embedded USB Device, USB Host, remote control via LAN and thumb drive support provide more alternative solutions for users.

Features and Benefits :

- ◆ Advanced DDS technology , Max 150MHz frequency output
- ◆ Up to 400MSa/S sample rate and 32bits Frequency resolution
- ◆ Vertical Resolution: 14bits , Up to 1 M wavelength
- ◆ Comprehensive waveform outputs : Sine , Square , Ramp , Pulse , Noise , Sinc , Exponential Rise and fall, 32 channels digital waveform , DC and user defined arbitrary waveform
- ◆ Comprehensive modulation functions : AM, FM, PM, FSK, PWM modulations
- ◆ 3.9 inch high resolution (480×320 pixels) TFT LCD display



Performance characteristics:

Model	AG4151	AG1022
Bandwidth	one channel 150MHz	two channel 25MHz
Sample rate	400MSa/S	130MSa/S
Vertical Resolution	14bits	
Auto waveform record length	1M points	10k points
Amplitude Flatness	20 mVPP- 20VPP	20mVPP-20VPP
Modulation	AM, FM, PM, PWM, FSK, SWEEP, Burst	



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Performance Characteristics		
Model	AG4151	AG1022
Standard waveforms	Sine, Square, Pulse, Ramp, Noise	
Arbitrary waveforms	Exponential Rise and Decay, DC, Since, User defined 32channels digital waveform	Exponential Rise and Decay, Since, DC, User defined
Frequency Characteristics	400MSa/s , Resolution 1 μ Hz	130MSa/s , Resolution 1 μ Hz
sine	1 μ Hz—150MHz	1 μ Hz—25MHz
Square	1 μ Hz—50MHz	1 μ Hz—25MHz
Pulse	1 μ Hz—30MHz	1 μ Hz—25MHz
Ramp	1 μ Hz—1MHz	1 μ Hz—1MHz
Noise	50MHz	20MHz
Arbitrary waveforms		
Wave length	1Mpts	10Kpts
Sample Rate	200MSa/s	130MSa/s
Vertical Resolution	14bits	
Non-Volatile Memory	4 waveforms	
Amplitude Flatness		
Amplitude	10mVPP-10VPP(50 Ω) 20mVPP-20VPP(High Impedance)	
Resolution	1mVPP or 14bits	
DC Offset Range (AD+DC)	\pm 5V(50 Ω)、 \pm 10V(High Impedance)	
DC Offset Range	1mV	
Load Impedance	50 Ω (typical)	
Amplitude Flatness		
Modulation Waveforms	AM、 FM、 PM、 FSK , PWM, Linear/Logarithm Sweep and burst waveform	
Modulation Frequency	2 mHz-20.00 kHz (FSK 2mHz-100kHz)	
Input/Output		
Display	3.9-inch(480 \times 320) TFT LCD	
Type	External modulation input/output, External trigger input/output, External reference clock input/output	/
Interface	USB Host, USB Device, RS232, LAN	USB Host, USB Device, RS232

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