

OWON AG1022



- + 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
- + SCPI Supported
- + 4 inch high resolution (480 x 320 pixels) LCD



+ Performance Specifications

Model	AG1012	AG1012F	AG1022	AG1022F	AG2052F NEW!	AG2062F NEW!
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)

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Arbitrary Waveform						
Wave Length	2 pts to 8K pts				2 pts to 1M pts	
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				
Power Amplifier Module (optional)						
Input Impedance	50 kΩ		Output Impedance		< 2 Ω	
Max Input Voltage	2.2Vpp		Gain		X10	
Max Output Voltage	22Vpp		Offset		<7%	
Output Slew Rate	10V/us		Bandwidth (at full power)		DC 100kHz	
Max Output Power	10W					
Input / Output						
Display	4 inch (480 x 320 pixels) 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, and USB device, LAN (surport remote control), RS232 (option)					
Mechanical						
Dimension (W x H x D)	235 x 110 x 295 (mm)					
Weight (without package)	3.00 kg					