



## AG051 & AG051F - Features and Benefits



- 4 inch high resolution (480 x 320 pixels) LCD
- Advanced DDS technology, 5MHz 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 (only AG051F Optional)
- SCPI, and LabVIEW supported

Specifications	Model	AG051	AG051F
	Channel	Single	
	Frequency Output	5MHz	
	Sample Rate	125MS/s	
	Vertical Resolution	14 bits	
	Waveform Characteristic		
	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 Characteristic (resolution 1μHz)		
	Sine	1μHz~5MHz	
Square	1μHz~5MHz		
Pulse	1μHz~5MHz		
Ramp	1μHz~1MHz		
Noise	5MHz (-3dB) (typical)		
Arbitrary Waveform	1μHz~5MHz		
Amplitude Characteristic			
Amplitude	1mVpp~12.5 Vpp (50Ω), 1mVpp~25 Vpp (high impedance)		
Resolution	1mVpp 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)		
Arbitrary Waveform Characteristic			
Wave Length	2 pts to 8k pts		
Sample Rate	125MS/s		
Vertical Resolution	14 bits		
Non-volatile Memory	64M byte		
Modulation (optional)			
Modulation Waveform	/	AM, FM, PM, FSK, Sweep and Burst	
Modulation Frequency	/	2mHz to 20.00KHz (FSK 2mHz~100KHz)	
General Characteristic			
Display	4 inch (480 × 320 pixels) TFT LCD		
Type	external reference clock input	external modulation input; external trigger input external reference clock input	
Communication Interface	USB device		
Dimension (W*H*D)	235mm*110mm*295mm		
Weight	3.00 kg (without package)		