

# AG-S Series Single-channel Arbitrary Waveform Generator

## Accessories

The accessories subject to final delivery.



Power Cord



CD-Rom



Manual



09



USB

# DDS



## Main Feature

- + 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 48 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, PWM, Sweep, and Burst
- + Supported SCPI
- + 4 inch high resolution (480 × 320 pixels) TFT LCD display

**LILLIPUT**<sup>®</sup>

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## Performance Specifications

Model	AG4081	AG4101	AG4121	AG4151
Channel	single + trigger			
Frequency Output	80MHz	100MHz	120MHz	150MHz
Sample Rate	400MS/s			
Vertical Resolution	14 bits			
<b>Waveform</b>				
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, user-defined arbitrary waveform			
<b>Frequency (resolution 1μHz)</b>				
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			
<b>Amplitude</b>				
Amplitude	10m Vpp - 10 Vpp (50Ω), 20m 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)			
<b>Arbitrary Waveform</b>				
Wave Length	2 pts to 1M pts			
Sample Rate	200MS/s			
Vertical Resolution	14 bits			
Non-volatile Memory	26 waveforms			
<b>Modulation</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 × 320 pixels) TFT LCD			
Type	external modulation input / output, external trigger input / output, external reference clock input / output			
Communication Interface	USB host, USB device, RS232, LAN			
<b>Mechanical</b>				
Dimension (W×H×D)	235 × 110 × 295 (mm)			
Weight (without package)	3.00 kg			

Specifications subject to change without prior notice.