

# 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

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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),<br>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,<br>external trigger input / output,<br>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.