

# XDG3000 Sereis Dual-channel Arbitrary Waveform Generator

- + Advanced DDS technology, Max 250MHz frequency output
- + Max 1.25GS/s sample rate, and 1μHz frequency resolution
- + Vertical Resolution :14 bits, max 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 150 built-in arbitrary waveforms
- + Comprehensive modulation functions : AM, FM, PM, FSK, 3FSK, 4FSK, PSK, QSK, ASK, BPSK, PWM, Sweep, and Burst
- + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- + SCPI, and LabVIEW supported
- + 8 inch high resolution (800 × 600 pixels) LCD



## + Performance Specifications

Model	XDG3252	XDG3202	XDG3162	XDG3102	XDG3082
Channel	dual				
Frequency Output	250MHz	200MHz	160MHz	100MHz	80MHz
Sample Rate	1.25GSa/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 150 built-in waveforms, and user-defined arbitrary waveform

### Frequency (resolution 1μHz)

Sine	1μHz ~ 250MHz	1μHz ~ 200MHz	1μHz ~ 160MHz	1μHz ~ 100MHz	1μHz ~ 80MHz
Square	1μHz ~ 50MHz	1μHz ~ 50MHz	1μHz ~ 50MHz	1μHz ~ 40MHz	1μHz ~ 30MHz
Pulse	1μHz ~ 25MHz	1μHz ~ 25MHz	1μHz ~ 25MHz	1μHz ~ 25MHz	1μHz ~ 25MHz
Ramp	1μHz ~ 5MHz				
Noise	120MHz (-3dB , type)				
Arb	1μHz ~ 50MHz				

### Amplitude

Amplitude(50Ω)	1mVpp ~ 10Vpp ( ≤ 40MHz ) ; 1mVpp ~ 5Vpp ( ≤80MHz ) 1mVpp ~ 2.5Vpp ( ≤120MHz ) ; 1mVpp ~ 1Vpp ( ≤200MHz )
Amplitude(high impedance)	2mVpp ~ 20Vpp ( ≤ 40MHz ) ; 2mVpp ~ 10Vpp ( ≤80MHz ) ; 2mVpp ~ 5Vpp ( ≤120MHz ) ; 2mVpp ~ 2Vpp ( ≤200MHz )
Resolution	1mVPP or 4digits
DC Offset Range (AD+DC)	±5V(50Ω)、±10V( high impedance )

DC Offset Range Resolution	1mV or 4digits
Load Impedance	50Ω type

### Arbitrary Waveform

Wave Length	2 ~ 1M pts
Frequency	50MHz
Sample Rate	1GSa/s

### Modulation

Modulation Waveform	AM、FM、PM、PWM、FSK、3FSK、4FSK、PSK、OSK、ASK、BPSK、Sweep、Burst
Modulation Frequency	2 mHz -100 kHz(AM、FM、PM、PWM); 2 mHz ~ 1MHz(FSK、3FSK、4FSK、PSK、OSK、ASK、BPSK) ; 2mHz - 100MHz ( Burst ) ; 1uHz-200MHz ( Sweep )

### Cymometer

Function	Frequency Period, +Width, -Width, +Duty, and -Duty
Frequency Range	100mHz ~ 200MHz
Frequency Resolution	7 digits/s

### Input / Output

Display	8 inch (800x600) TFT LCD
Type	counter external modulation input , external trigger input , external reference clock input / output
Communication Interface	USB Host, USB Device,LAN

### Mechanical

Dimension (W×H×D)	340mm x 177mm x 90mm
Device Weight	About 2.5KG

Specifications subject to change without prior notice.

### + Application

design and debug      circuit function test      education & training

### + Accessories

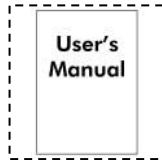
The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB Cable



Q9 Cable