



## DFG-2022F

### Dual-channel Arbitrary Waveform Generator

- + Advanced DDS technology, 25MHz frequency output
- + 125MS/s sample rate, and 1 $\mu$ Hz frequency resolution
- + Vertical Resolution : 14 bits, up to 1M arb waveform length
- + Comprehensive waveform output : 5 basic waveforms, and 45 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, and LabVIEW supported
- + 4 inch high resolution (480 × 320 pixels) LCD

#### + Performance Specifications

Model	DFG-2022F
Channel	dual
Frequency Output	25MHz
Sample Rate	125MS/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 45 built-in waveforms, and user-defined arbitrary waveform

#### Frequency (resolution 1 $\mu$ Hz)

Sine	1 $\mu$ Hz - 25MHz
Square	1 $\mu$ Hz - 5MHz
Pulse	1 $\mu$ Hz - 5MHz
Ramp	1 $\mu$ Hz - 1MHz
Noise	25MHz (-3dB) (typical)
Arb	1 $\mu$ Hz - 10MHz

#### Amplitude

Amplitude	1mVpp - 10Vpp (50 $\Omega$ ), 1mVpp - 20Vpp (high impedance)
Resolution	1m Vpp or 4 digits
DC Offset Range (AD+DC)	$\pm$ 5V (50 $\Omega$ ), $\pm$ 10V (high impedance)
DC Offset Range Resolution	1mV or 4 digits
Load Impedance	50 $\Omega$ (typical)

#### Arbitrary Waveform

Wave Length	2 pts to 8K pts
Non-volatile Memory	64M byte

#### Modulation

Modulation Waveform	AM, FM, PM, FSK, Sweep, and Burst
Modulation Frequency	2mHz to 20.00KHz (FSK 1 $\mu$ Hz - 100KHz)

#### Cymometer

Function	Frequency Period, +Width, -Width, +Duty, and -Duty
Frequency Range	100mHz ~ 200MHz
Frequency Resolution	6 digits/s

#### Power Amplifier Module (optional)

Input Impedance	50 k $\Omega$	Output Impedance	<2 $\Omega$
Max Input Voltage	2.2Vpp	Gain	X 10
Max Output Voltage	22 Vpp	Offset	<7%
Output Slew Rate	10V/us	Bandwidth (at full power)	DC 100kHz
Max Output Power	10 W		

#### Input / Output

Display	4 inch (480 × 320 pixels) LCD
Type	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×H×D)	235 × 110 × 295 (mm)
Device Weight	3.00 kg

Specifications subject to change without prior notice.

#### + Application

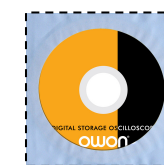
design and debug    circuit function test    education & training

#### + Accessories

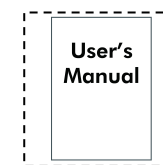
The accessories subject to final delivery.



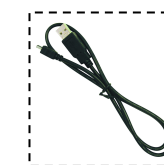
Power Cord



CD Rom



Manual



USB Cable



Q9