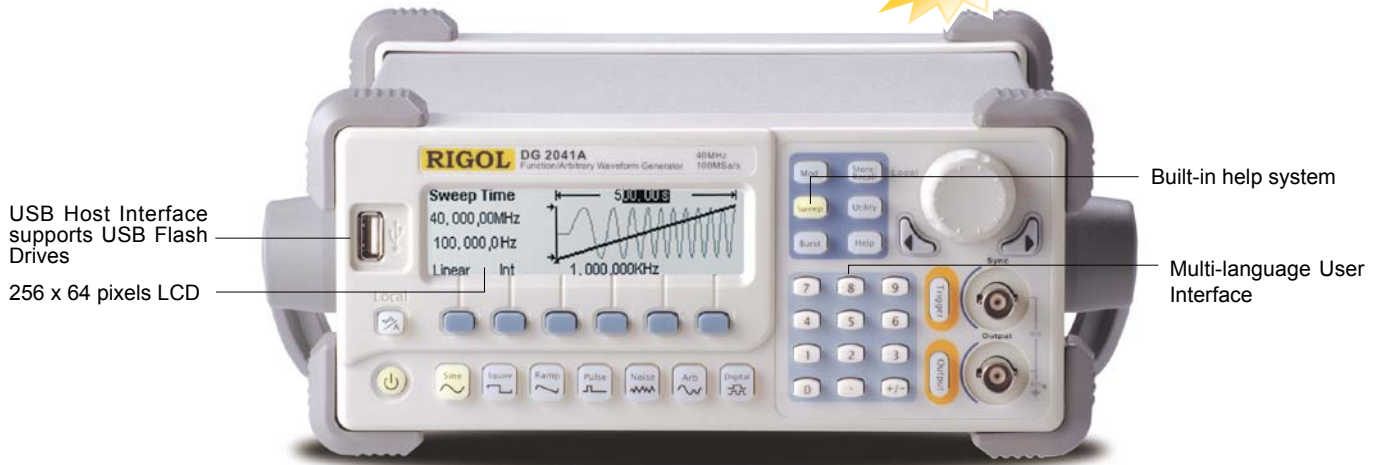


# DG2000 Series Function/Arbitrary Waveform Generators

*User Definable Arbitrary Waveform  
512 kpts of Waveform Length*



Product Dimensions: Width×Height×Depth = 232mm×108mm×288mm weight: 2.7 kg

## ► Application Areas

- Simulation of Analog Sensor and Real World Signals
- Education and Training
- In-circuit Functional Test
- Service and Repair

## ► Features and Benefits

1. Advanced Direct Digital Synthesis (DDS) Technology, 100 MSa/s maximum sample rate and 40 MHz maximum output frequency, 14 bits vertical resolution, 512 kpts Waveform Length
2. Connectivity: USB Host, USB Device, LAN, GPIB and RS-232, seamless connectivity with DS series digital oscilloscope
3. Integretes pulse width & setting function, PWM function.

Model	DG2041A
Maximum Output Frequency	40 MHz
Connectivity	USB Device, LAN, GPIB, RS-232,USB Host

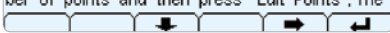
## ► Specifications

Model	DG2041A
Standard Waveform	Sine, Square, Ramp, Triangle, Pulse, White noise, DC, Index up, Index down, Sinc, Electrocardiogram
Frequency characteristics	
Sine	1 $\mu$ Hz ~ 40 MHz
Square	1 $\mu$ Hz ~ 40 MHz
Pulse	500 $\mu$ Hz ~ 16 MHz
Ramp	1 $\mu$ Hz ~ 400 kHz
White Noise	20 MHz bandwidth (-3dB)
Arbitrary Waveform Characteristics	
Frequency Range	1 $\mu$ Hz ~ 12 MHz
Waveform Length	2 pts ~ 512 kpts
Amplitude Resolution	14 bits
Sample Rate	100 MSa/s

Amplitude Characteristics	
Amplitude	20 mVpp ~ 10 Vpp (into 50 $\Omega$ ) 40 mVpp ~ 20 Vpp (into open circuit)
Modulation Characteristics	
Modulation Mode	AM, FM, PM, FSK, PWM-internal or external
Frequency of Modulation Waveform	2 mHz ~ 20 kHz (FSK 2 mHz to 100 kHz)
Output Mode	
Burst	Count (1 to 1,000,000 periods), Infinite, Gate
Sweep	Linear or Logarithmic
Other Parameters	
Connectivity	USB Host, USB Device, RS-232, LAN, GPIB
Power Supply	AC:100V-240V, 45Hz-440 Hz, 50VA Max

### ► Intuitive User Interface

Create an arbitrary waveform  
1: Press [Arb] and then "Create New",  
2: Enter the desired period, voltage limits, and number of points and then press "Edit Points". The



**Built-in Help System**  
Easy access to Built-in help system by pressing and holding the key for 3 seconds

Local	State	0.rsf
UDisk	Data	
	All	

**File System**  
Easy to Use file system supports USB Flash Memory and local file storage

### ► Optional Accessories



10W Power Amplifier PA1011



BNC Cable



RS-232 Cable



50  $\Omega$  Impedance Adaptor



40 dB Attenuator