

2-CH

frequency output: 35MHz / 70MHz
Sample rate: 125MSa/s / 300MSa/s

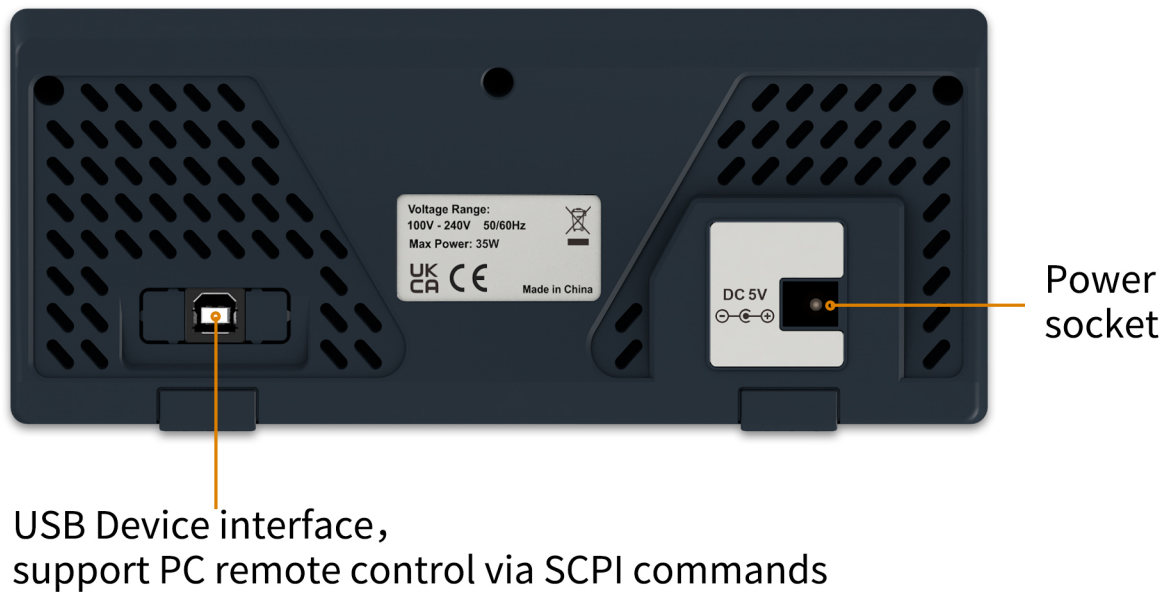
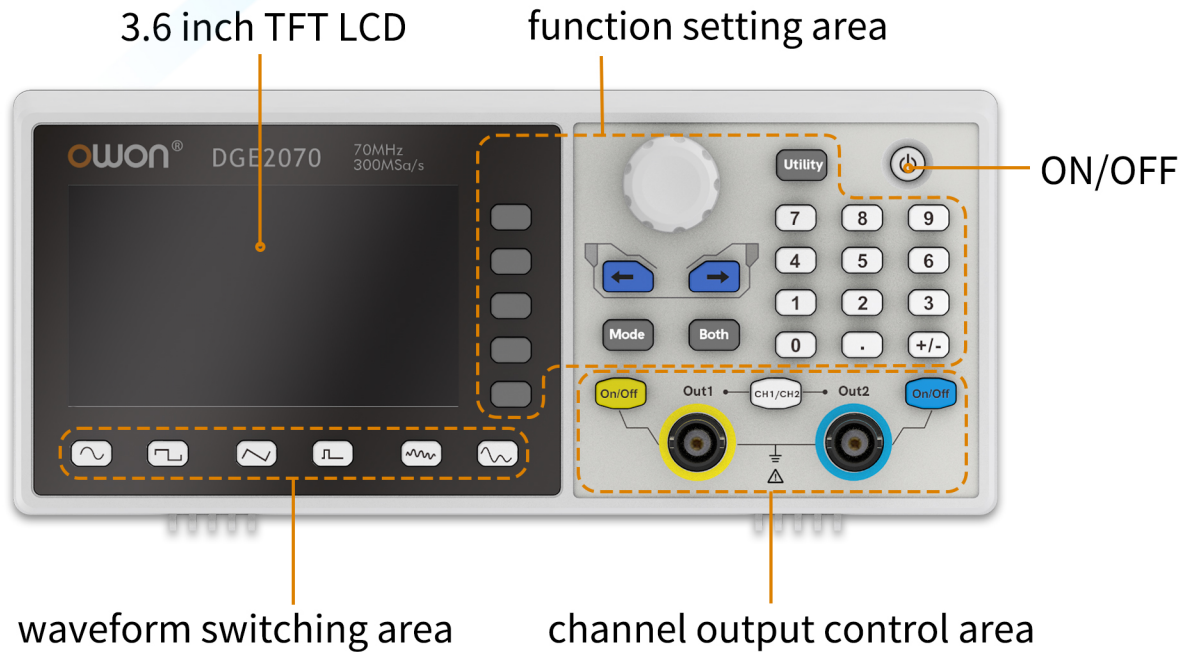


DGE2000

WAVEFORM GENERATOR

- Up to 70MHz frequency output, Max 300MSa/s sample rate
- Vertical Resolution :14 bits, max 8K Arb waveform length
- Comprehensive waveform output :
5 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions :
AM, FM, PM, FSK, Sweep, Burst, etc.
- SCPI, and LabVIEW supported
- 3.6 inch TFT LCD, all settings can be fully displayed
- Ultra-thin body, easy to operate

APPEARANCE DIMENSION



Dimension (W x H x D):
200mm x 86.5mm x 74.5mm

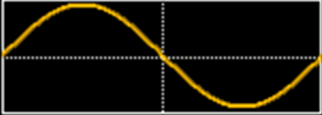
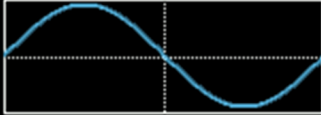


3.6 inch LCD Display

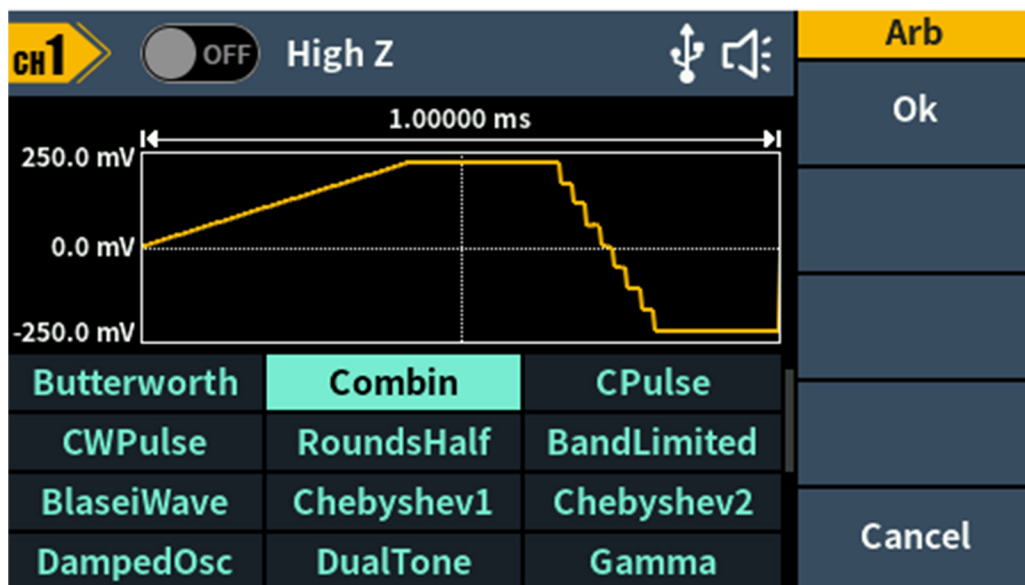


DGE2000 series adopt 3.6 inch TFT color LCD display, each channel output waveform status and menu settings can be fully displayed on the screen. With convenient shortcut key, it makes man-machine interaction more convenient and effectively improve working efficiency.

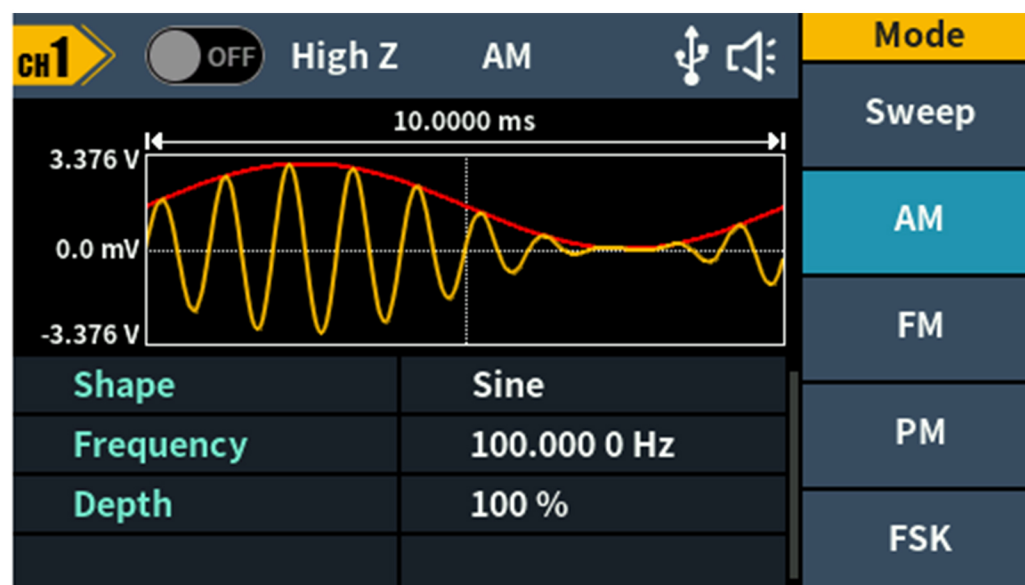
FUNCTION INTRODUCTION

CH1		CH2	
Freq	1.000 00 kHz	Freq	1.000 00 kHz
Ampl	6.752 Vpp	Ampl	1.000 Vpp
Offset	0 mV	Offset	0 mV
Phase	0 °	Phase	0 °

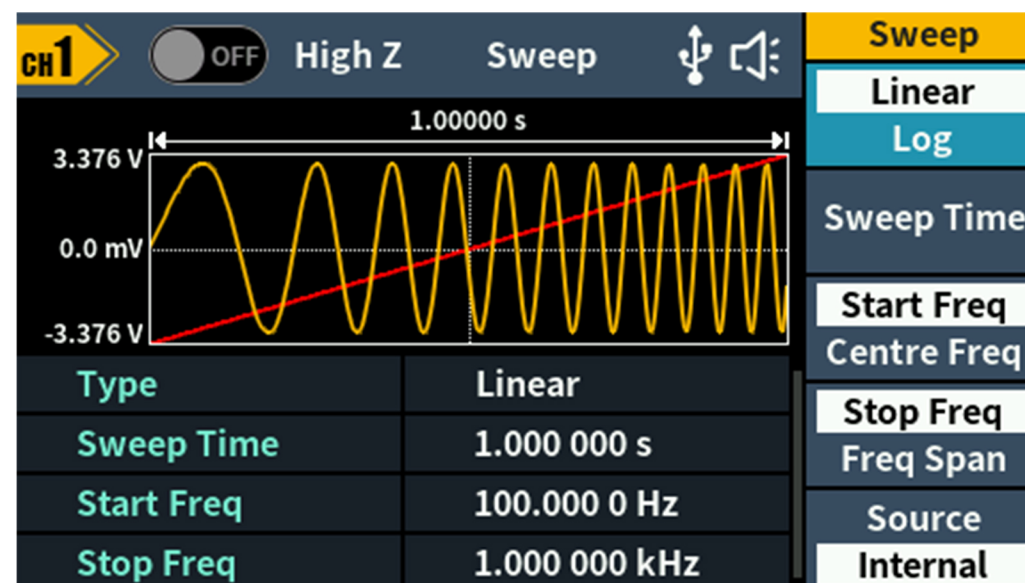
Standard equivalent performance dual channel.



with more than 150 kinds of built-in arbitrary waveforms.



support AM, FM, PM, FSK modulation mode.



Sweep function



Burst function

/USER2			Files
Name		Size	Call Out
USER0		16.00kB	
USER1		16.00kB	
USER2		16.00kB	
USER3		0.00B	
USER4		0.00B	
USER5		0.00B	
USER6		0.00B	Back

16 non-volatile digital arbitrary waveform storage functions.



Support PC remote control

PRODUCT SPECIFICATIONS

Model	DGE2035	DGE2070
Channel	2	
Frequency Output	35MHz	70MHz
Sample Rate	125MSa/s	300MSa/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 - 35MHz	1μHz - 70MHz
Square	1μHz - 15MHz	1μHz - 20MHz
Pulse	1μHz - 15MHz	1μHz - 20MHz
Ramp	1μHz - 1MHz	1μHz - 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	1μHz - 10MHz	

Sine Wave Spectrum Purity

Harmonic Distortion Typical (0dB)	DC - 1MHz: <-65dBc 1MHz - 30MHz: <-60dBc 30MHz - 60MHz: <-50dBc	
Total Harmonic Distortion	< 0.2%, 10 Hz to 20 kHz, 1 Vpp	
Spurious (non-harmonic), Typical (0dB)	≤10MHz: <-70dBc >10MHz: <-70dBc + 6dB/ octave	
Phase Noise	Typical (0 dBm, 10 kHz deviation) 10MHz: -110dBc/Hz	

Square

Rise / Fall Time	<15ns	
Overshoot	< 2%	
Duty Cycle	50.0% (fixed)	
Jitter (rms)	200ps + 30ppm	

Pulse

Cycle	66.667ns - 1000ks	50ns - 1000ks
Pulse Width	≥24ns	
Leading / Trailing Edge Time	≥15ns	
Jitter (rms)	200ps + 30ppm	

Ramp

Linearity	≤1% of peak output (typical, 1kHz, 1 Vpp, 50% symmetry)	
Symmetry	0% to 100%	

Arbitrary		
Waveform Length		2 - 8K points
Sample Rate		125Ma/s 300Ma/s
Amplitude		
into 50Ω load		1mVpp - 10Vpp (≤ 10MHz) 1mVpp - 5Vpp (≤70MHz)
into open circuit or high-Z		2mVpp - 20Vpp (≤ 10MHz) 2mVpp - 10Vpp (≤70MHz)
Resolution		1mV or 4digits
DC Offset	Range (50Ω)	±(5 Vpk – Amplitude Vpp/2)
	Range (high-Z, open circuit)	±(10 Vpk – Amplitude Vpp/2)
	Accuracy	±(1 % of setting + 1 mV + amplitude Vpp * 0.5%)
	Resolution	1mV or 4digits
Load Impedance		50Ω (typical)
Modulation		
Type		AM, FM, PM, FSK, sweep, Burst
Sweep		
Trigger Source		internal, manual
Input / Output		
Display		3.6- inch TFT LCD with resolution 800 x 600
Communication Interface		USB Device
Mechanical specifications		
Dimension (W×H×D)		200mm x 86.5mm x 74.5mm
Weight (without package)		0.45kg

ACCESSORIES AND PACKAGING

- 1 Host Machine
- 2 BNC to Alligator Clip
- 3 Q9 Cable
- 4 USB Cable
- 5 USB to DC Cord
- 6 Power Adapter
- 7 Quick Guide
- 8 Packaging

