



Series

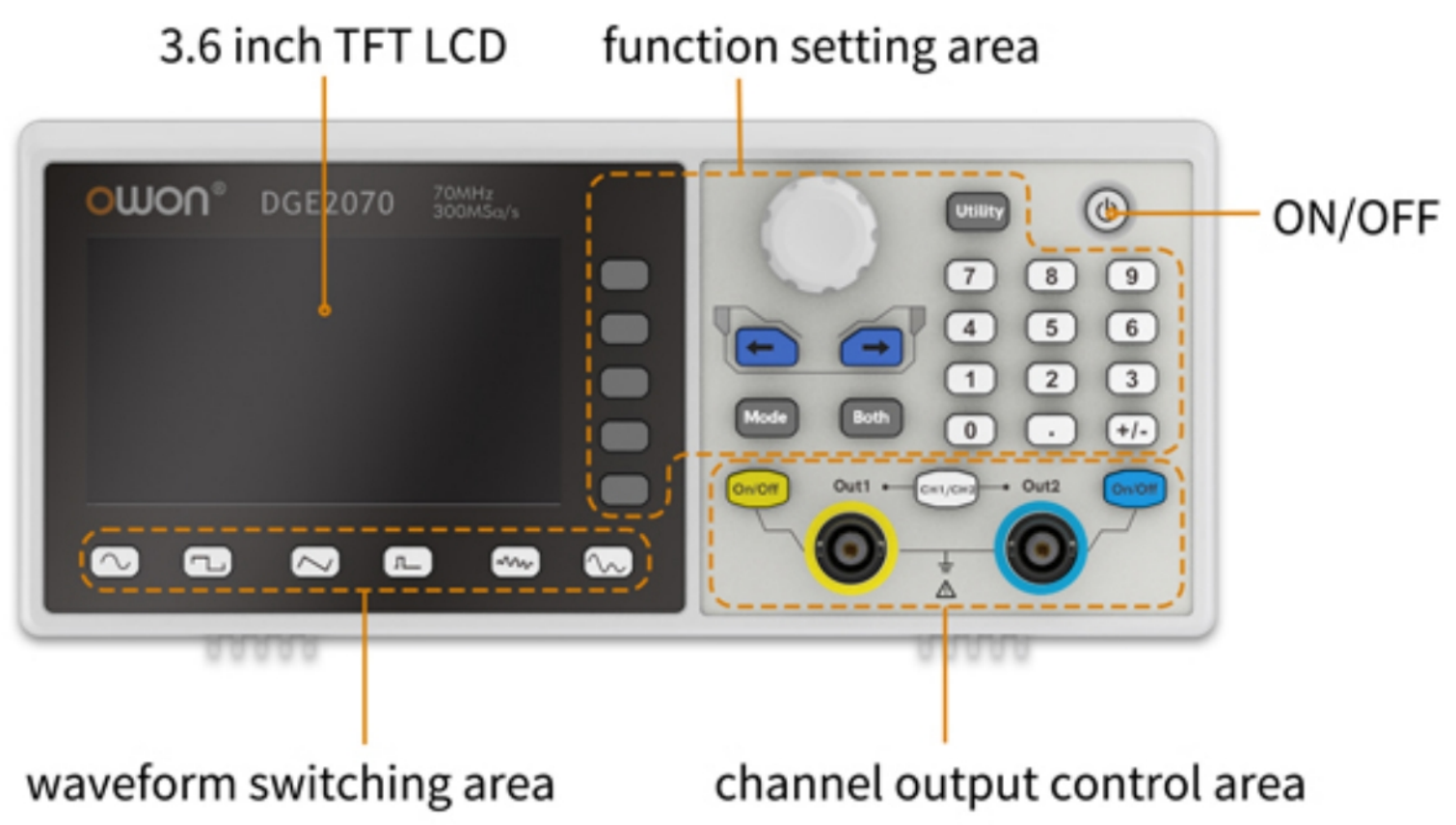
DGE2000

Waveform Generator

35/70MHz Frequency Output	300MS/s Max Sample Rate	14 bits Vertical Resolution
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Appearance Dimension

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021 88936611

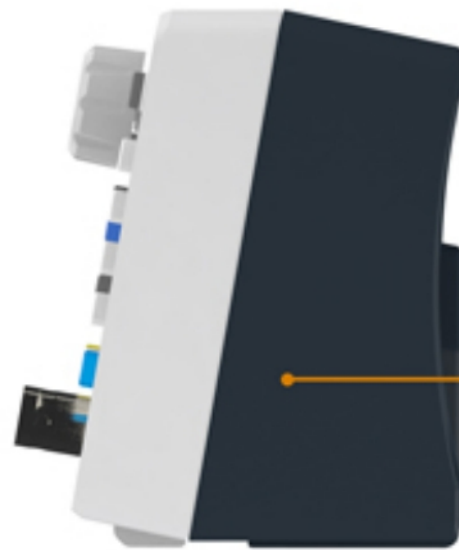




Power socket

USB Device interface, support PC remote control via SCPI commands.

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



Ultra thin body, easy to use.

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	60.000,0 MHz	Freq	60.000,0 MHz
Ampl	10.000 Vpp	Ampl	10.000 Vpp
Offset	0 mV	Offset	0 mV
Phase	0°	Phase	0°

Standard equivalent performance dual channel.

CH1 OFF High Z  

1.00000 ms

250.0 mV
0.0 mV
-250.0 mV

Butterworth	Combin	CPulse
CWPulse	RoundsHalf	BandLimited
BlaseiWave	Chebyshev1	Chebyshev2
DampedOsc	DualTone	Gamma

Arb
Ok
Cancel

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

CH1 ON High Z AM  

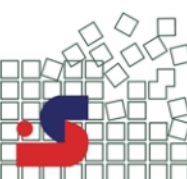
1.00000 ms

5.000 V
0.0 mV
-5.000 V

Shape	Sine
Frequency	1.000,000 kHz
Depth	100 %

Mode
Sweep
AM
FM
PM
FSK

support AM, FM, PM, FSK modulation mode.





Sweep function



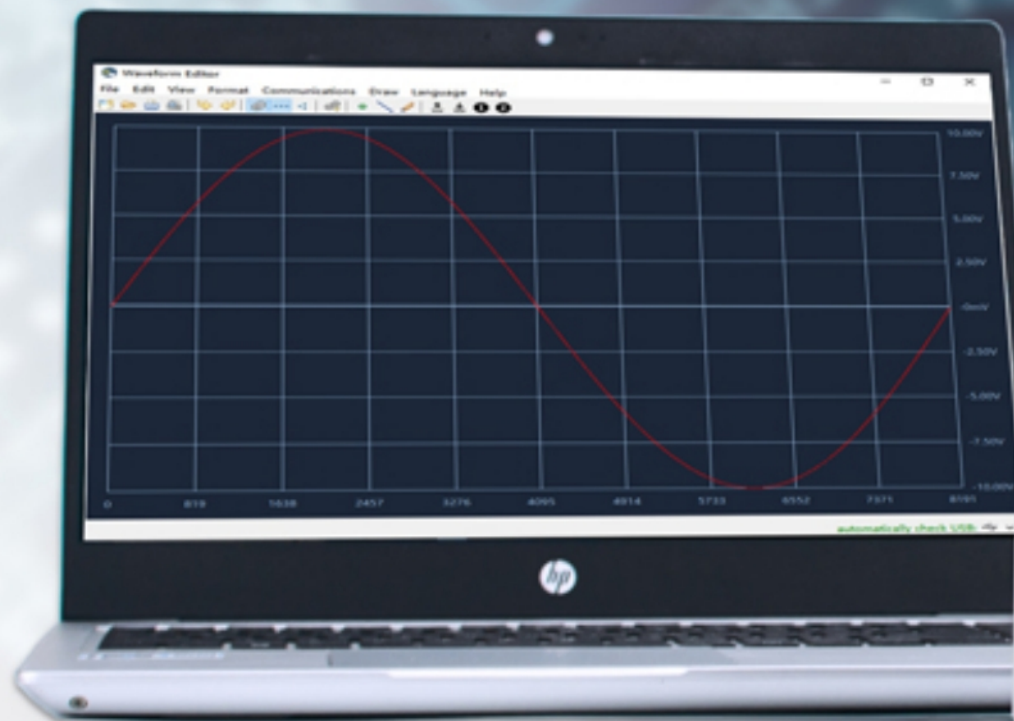
Burst function

/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

- + Standard USB device interface.
- + Support the remote operation of the upper computer.
- + Support SCPI communication function.



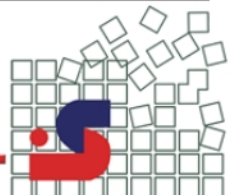
Specifications

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		
Sine	1 μ Hz - 35MHz	1 μ Hz - 70MHz
Square	1 μ Hz - 15MHz	1 μ Hz - 20MHz
Pulse	1 μ Hz - 15MHz	1 μ Hz - 20MHz
Ramp	1 μ Hz - 1MHz	1 μ Hz - 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	1 μ Hz -10MHz	
Frequency Resolution	1 μ Hz or 7 significant figures	
Frequency Stability	\pm 30 ppm at 0 \pm 40°C	
Frequency Aging Rate	\pm 30 ppm per year	
Arbitrary		
Waveform Length	2 - 8K points	
Sample Rate	125Ma/s	300Ma/s
Amplitude		
into 50 Ω Load	1mVpp - 20Vpp (\leq 10MHz) 1mVpp - 4Vpp (\leq 70MHz)	
DC Offset Range (AD+DC)	\pm (10 Vpk – Amplitude Vpp/2) high resistance \pm (5 Vpk – Amplitude Vpp/2) 50 Ω	
DC offset Resolution	1mV or 4digits	
Load Impedance	50 Ω (typical)	
DC offset Accuracy	\pm (1 % of setting + 1 mV + amplitude Vpp x 0.5%)	
Modulation		
Type	AM, FM, PM, FSK, sweep, Burst	
Internal Modulation Frequency	2 mHz to 100 kHz	
Sweep		
Carrier	Sine, rectangular wave, ramp wave, arbitrary wave(Except DC)	
Minimum/Maximum Starting Frequency	2mHz (minimum) / maximum frequency of corresponding carrier	
Minimum/Maximum Termination Frequency	2mHz (minimum) / maximum frequency of corresponding carrier	

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Trigger Source	internal, manual
Burst	
Waveform	Sine wave, square wave, ramp wave, pulse wave and arbitrary wave (Except DC)
Types	N-Cycle
Trigger source	Internal, manual
Carrier frequency	$1\mu\text{Hz} \leq \text{Offset} \leq \text{Maximum frequency of corresponding carrier} / 2$
Input / Output	
Display	3.6-inch TFT LCD with resolution 480 x 272
Communication Interface	USB Device
Mechanical specifications	
Dimension (W×H×D)	200mm x 68.5mm x 74.5mm
Weight (without package)	0.5kg

