



Series
DGE3000

Waveform Generator

30/60MHz
Frequency Output

300MSa/s
Max Sample Rate

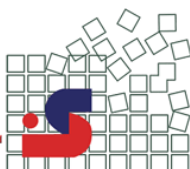
14 bits
Vertical Resolution

- Up to 60MHz frequency output, Max 300MSa/s sample rate
- Vertical Resolution :14 bits, max 100K Arb waveform length
- Comprehensive waveform output :
5 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions : AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSBAM and QPSK
- SCPI and LabVIEW supported
- 3.6 inch TFT LCD, all settings can be fully displayed

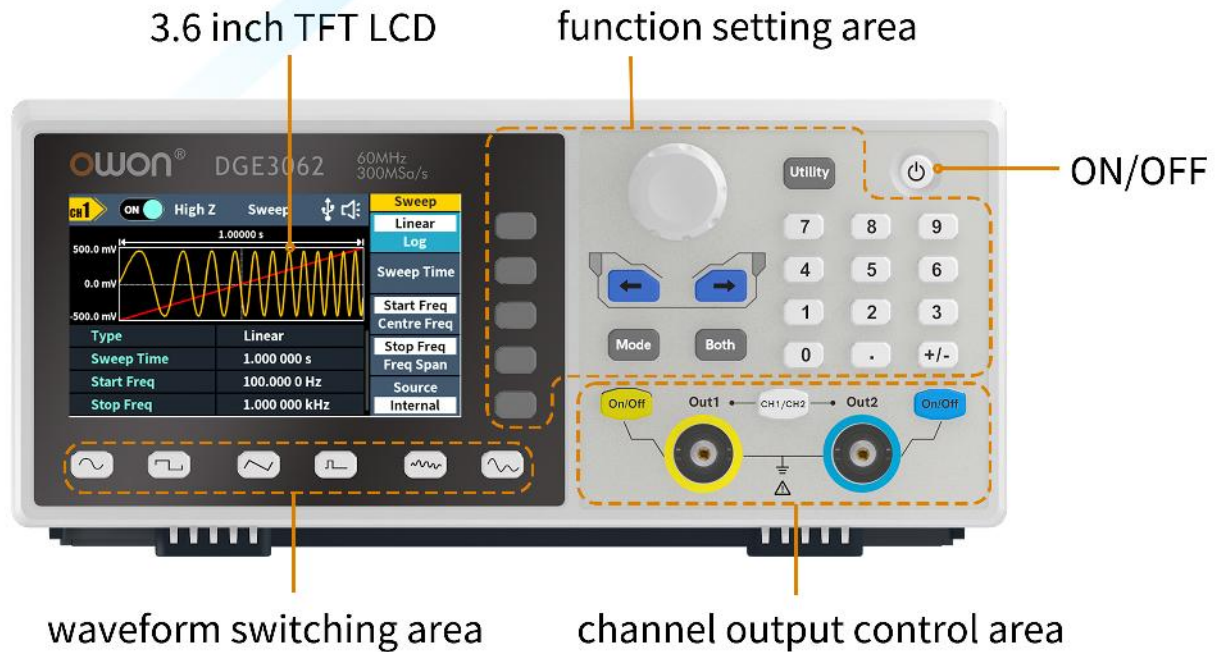
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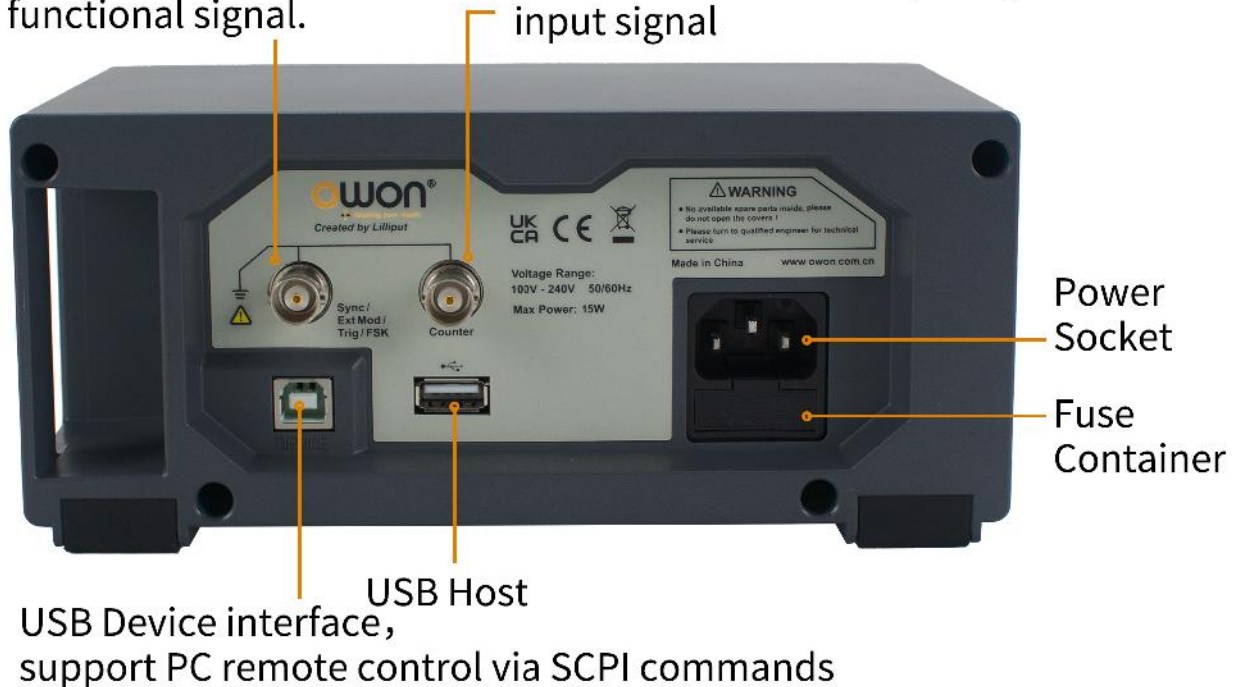


APPEARANCE DIMENSION



Signal connector,
used to connect the input or
output of a functional signal.

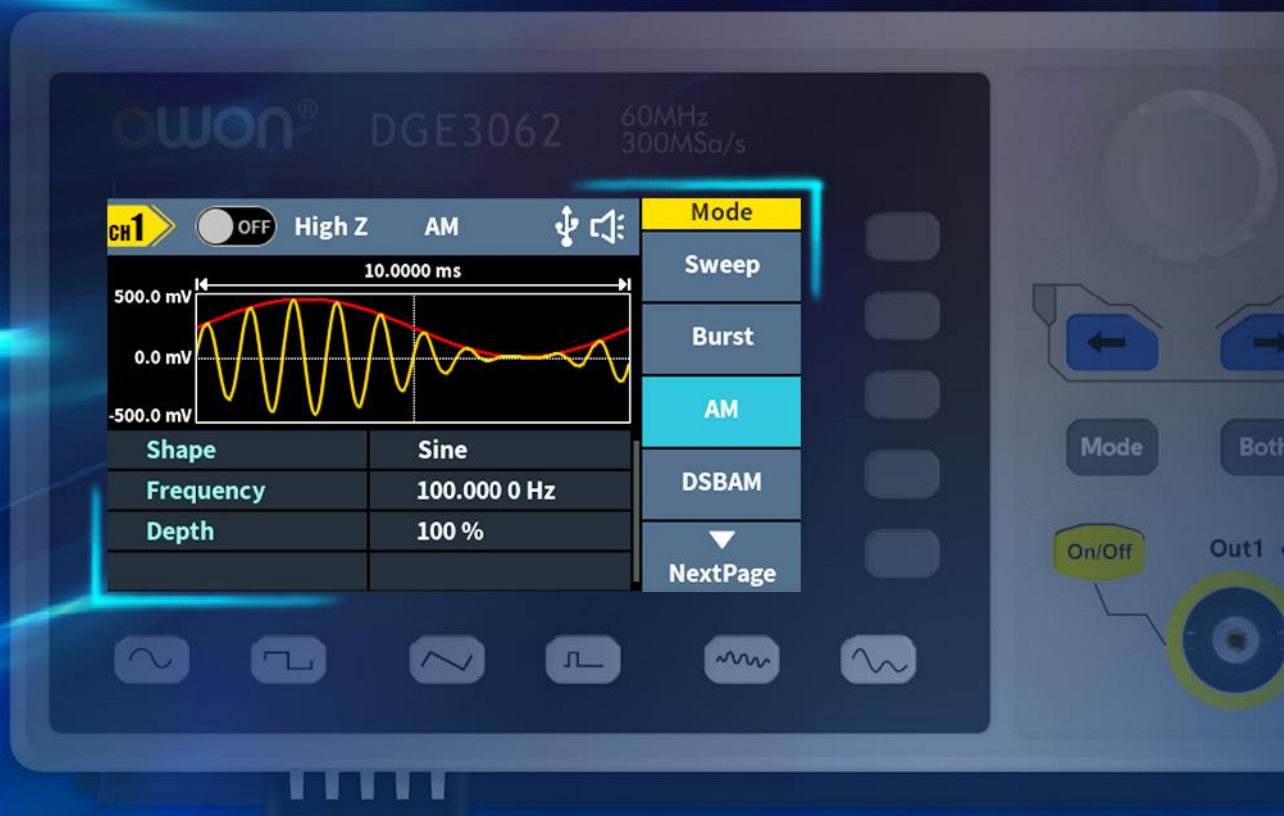
Counter input,
used to receive the frequency meter
input signal



Dimension (W x H x D):
200mm x 92mm x 157mm

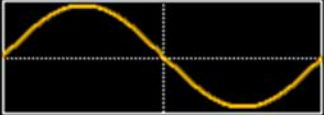
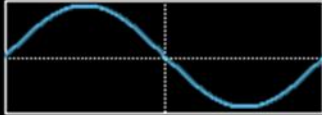


3.6 inch LCD Display

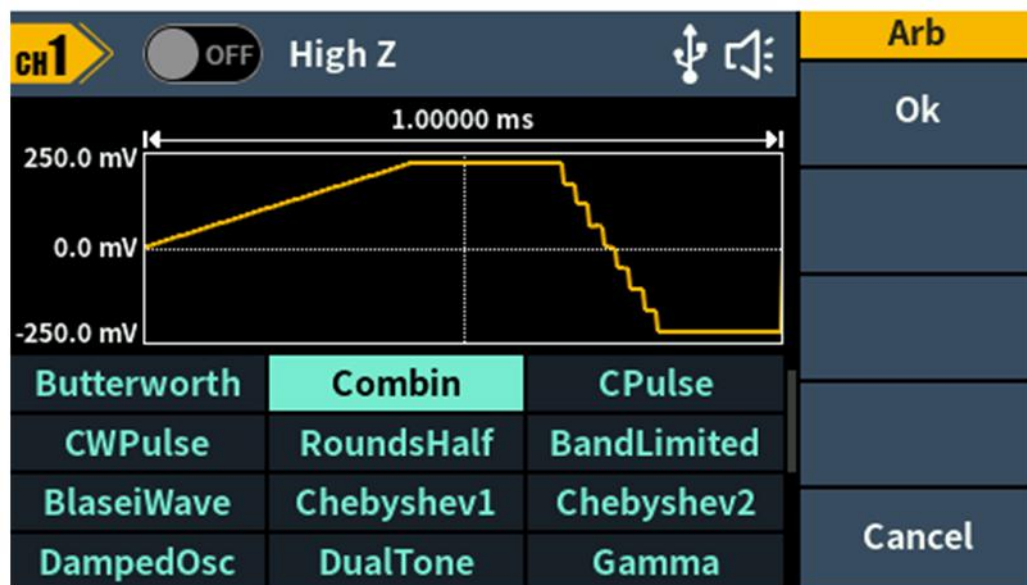


DGE3000 series adopt 3.6 inch TFT color LCD display, each channel output waveform status and menu settings can be fully displayed on the screen. With convenient shortcut key, it makes man-machine interaction more convenient and effectively improve working efficiency.

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 °

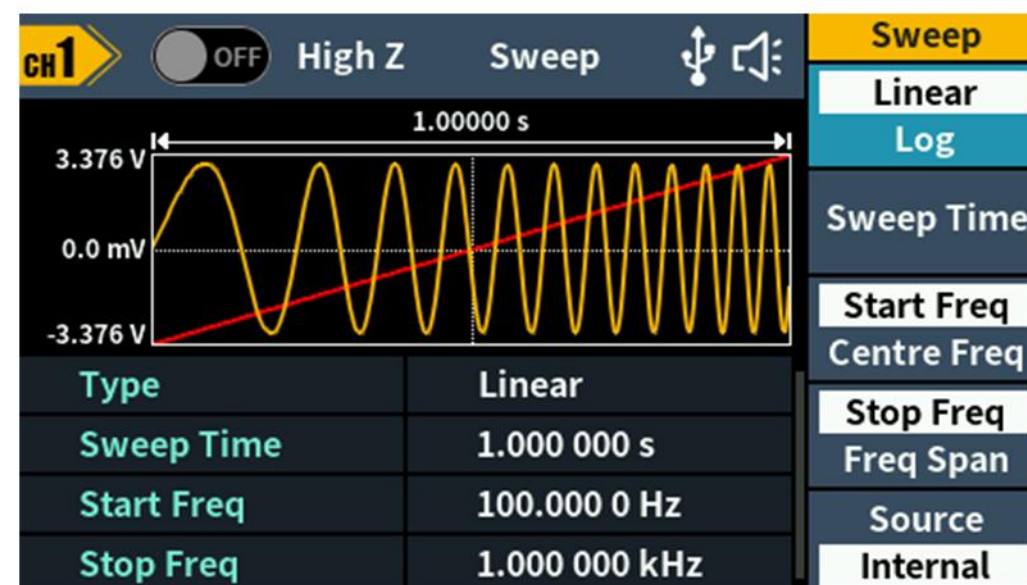
Standard equivalent performance dual channels.



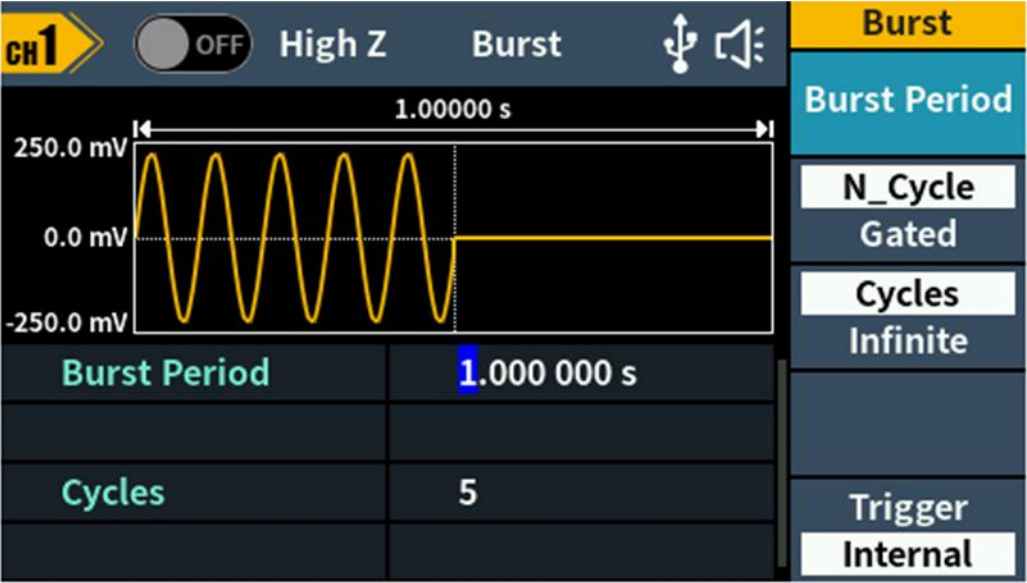
with more than 150 kinds of built-in arbitrary waveforms.



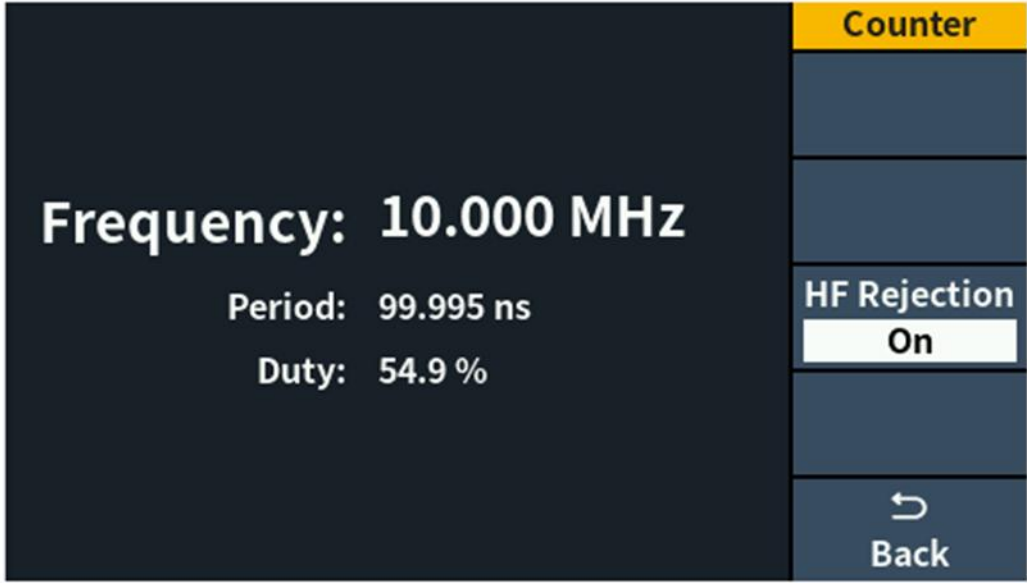
support AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSBAM, QPSK modulation mode.



Sweep function



Burst function



Frequency counter function:
High-accuracy frequency counter integrated, supported range 100mHz - 100MHz

/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

Model	DGE3032	DGE3062
Channel	2	
Frequency Output	30MHz	60MHz
Sample Rate	125MSa/s	300MSa/s
Vertical Resolution	14 bits	

Waveform

Standard Waveform	sine, square, pulse, ramp, noise	
Arbitrary Waveform	exponential rise, exponential fall, sin(x)/x, step wave, and others, total 150 built-in waveforms	

Frequency (resolution 1μHz)

Sine	1μHz - 30MHz	1μHz - 60MHz
Square	1μHz - 15MHz	1μHz - 20MHz
Pulse	1μHz - 15MHz	1μHz - 20MHz
Ramp	1μHz - 1MHz	1μHz - 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	1μHz - 10MHz	

Arbitrary

Waveform Length	2 points - 100K points	
Sample Rate	125MSa/s	300MSa/s

Amplitude

into 50Ω load	1mVpp - 10Vpp (≤10Hz) 1mVpp - 5Vpp (≤60MHz)	
DC Offset Range (AD+DC)	±(10 Vpk – Amplitude Vpp/2) high resistance ±(5 Vpk – Amplitude Vpp/2) 50 Ω	
DC offset resolution	1mV or 4digits	
Load Impedance	50Ω (typical)	
DC offset Accuracy	±(1 % of setting + 1 mV + amplitude Vpp * 0.5%)	

Modulation

Type	AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSB-AM, QPSK, SUM, Sweep, Burst
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Frequency Counter

Function	Frequency, period
Frequency Range	100mHz - 100MHz
Frequency Resolution	7 digits

Input / Output

Display	3.6 inch 480 x 272 pixels TFT LCD
Input mode	external modulation input, external trigger input, Sync output
Communication Interface	USB Host, USB Device

Mechanical specifications

Dimension (W×H×D)	200mm x 92mm x 157mm
Weight (without package)	0.8kg

ACCESSORIES AND PACKAGING

1 Host Machine

2 Quick Guide

3 Power Cable

4 USB Cable

5 BNC to Alligator Clip

6 Q9 Cable

