

frequency output: 30MHz / 60MHz
Sample rate: 300MSa/s
Single channel output

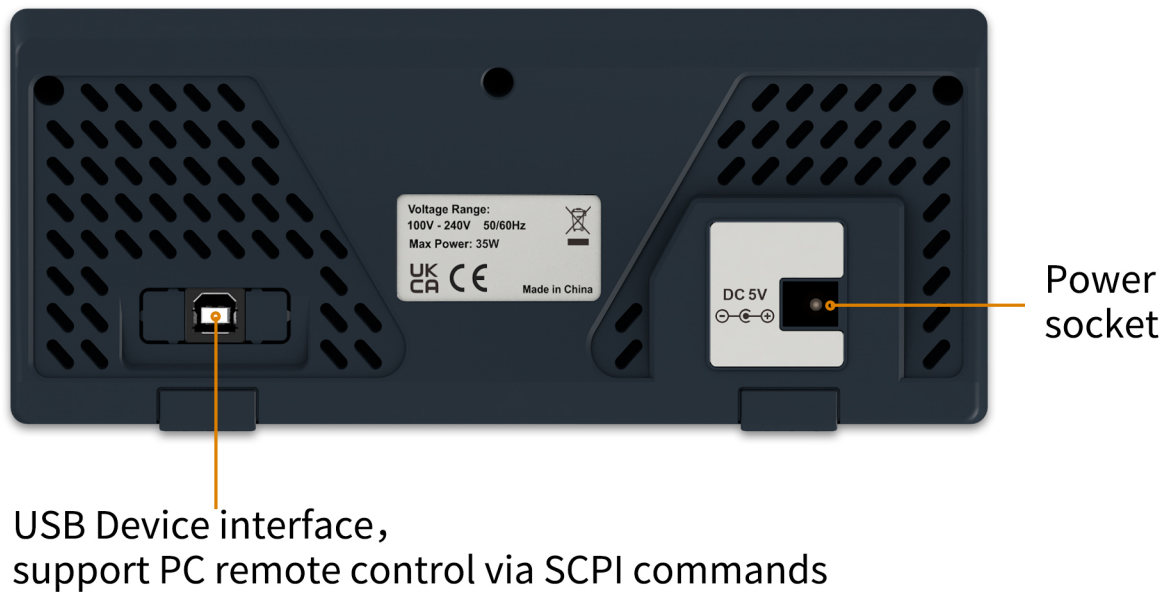
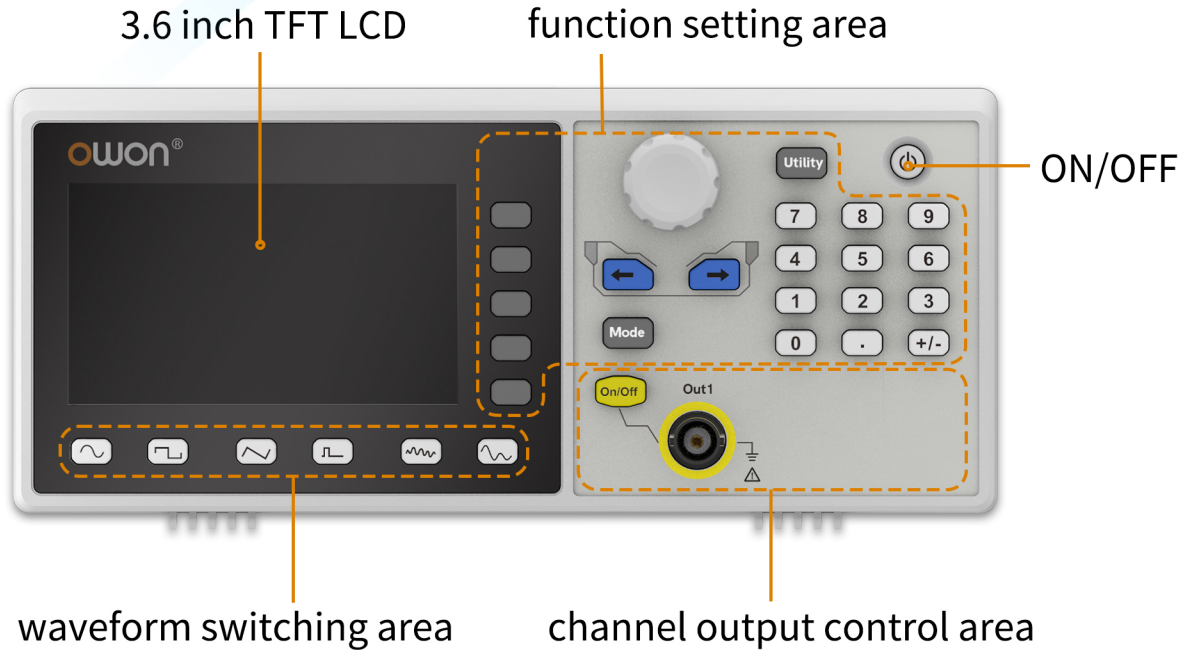


DGE1000

WAVEFORM GENERATOR

- Up to 60MHz frequency output, Max 300MSa/s sample rate
- Vertical Resolution :14 bits, max 8K Arb waveform length
- Comprehensive waveform output :
5 basic waveforms, and 160 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

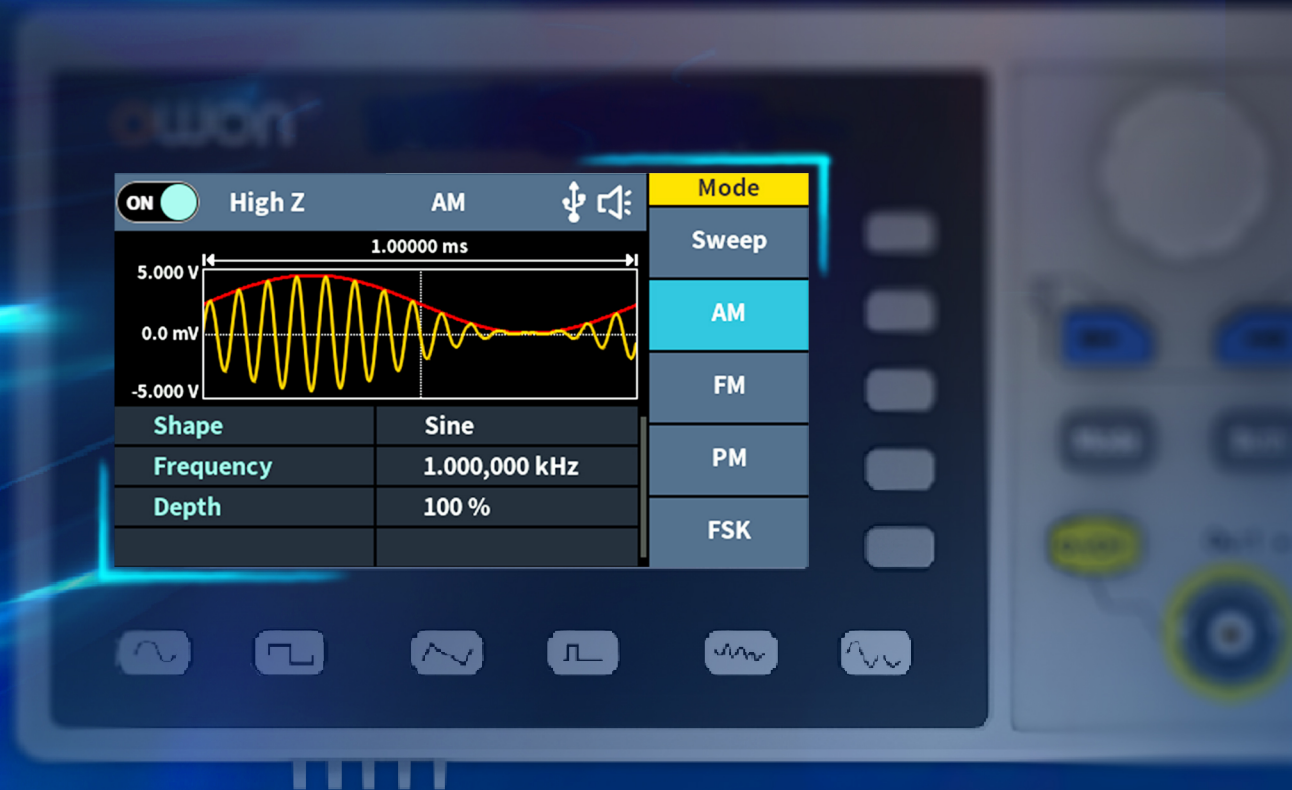
APPEARANCE DIMENSION



Dimension (W x H x D):
200mm x 68.5mm x 73.6mm

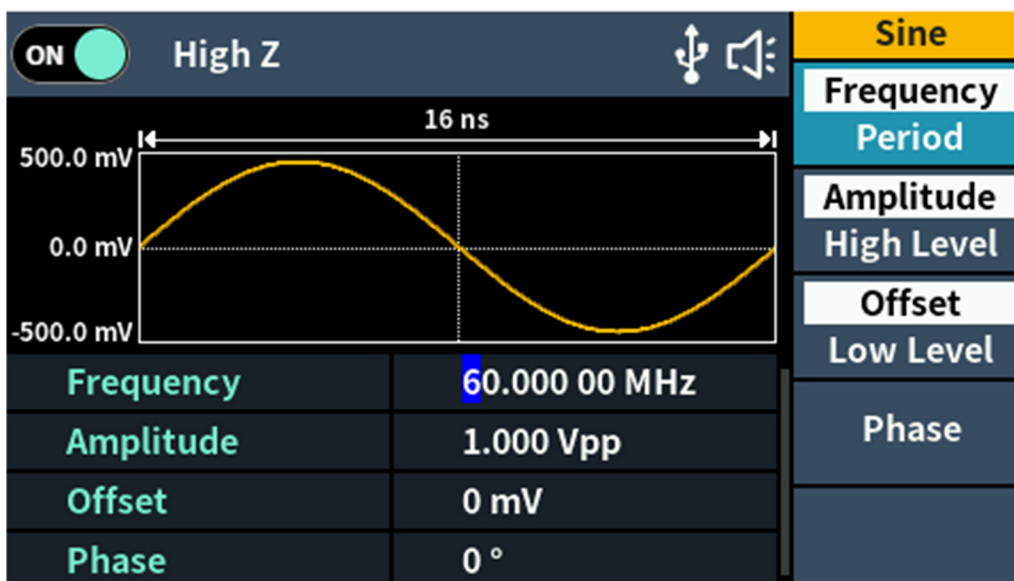


3.6 inch LCD Display

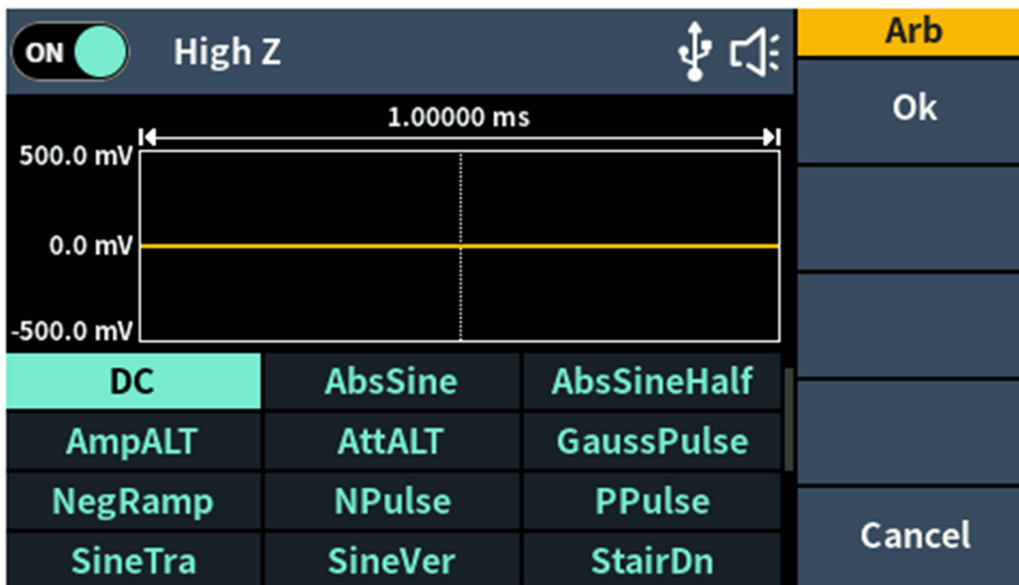


DGE1000 series adopt 3.6 inch TFT color LCD display, each channel output wave-form status and menu settings can be fully displayed on the screen. With convenient shortcut key, it makes man-machine interaction more convenient and effectively improve working efficiency.

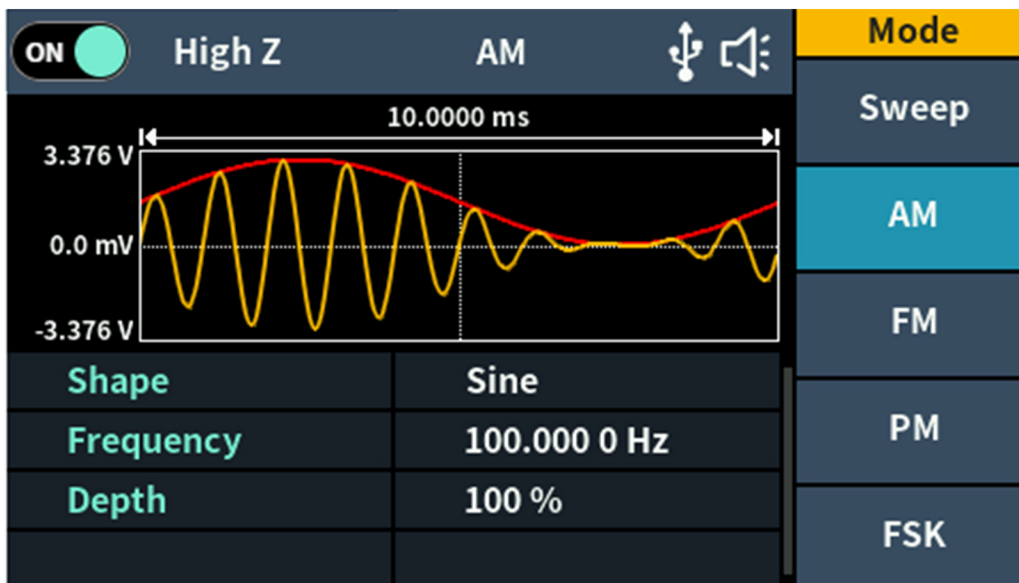
FUNCTION INTRODUCTION



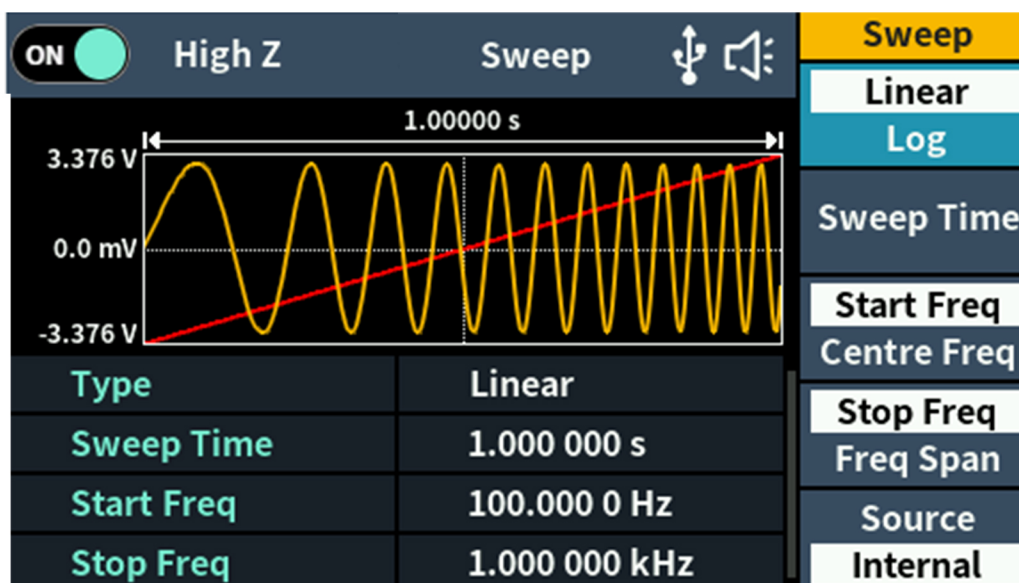
High frequency
stable output



With more than 160 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	DGE1030	DGE1060
Channel	1	
Frequency Output	30MHz	60MHz
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 160 built-in waveforms, and user-defined arbitrary waveform	

Frequency

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	
Frequency Resolution	1 μHz or 7 significant figures	
Frequency Stability	±30 ppm at 0±40°C	
Frequency Aging Rate	±30 ppm per year	

Arbitrary

Waveform Length	2 - 8K points	
Sample Rate	125MSa/s	300MSa/s

Amplitude

into 50Ω Load	1mVpp - 10Vpp (≤10MHz) 1mVpp - 4Vpp (≤70MHz)	
DC Offset Range (AD+DC)	high resistance: ±(10 Vpk - Amplitude Vpp/2) (≤10MHz); ±4Vpk-Amplitude Vpp/2 50Ω: ±(5 Vpk-Amplitude Vpp/2)(≤10MHz); ±(2 Vpk-Amplitude Vpp/2)	
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, 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	
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	$1\mu\text{Hz} \leq \text{Offset} \leq$ 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 73.6mm
Weight (without package)	0.5kg

ACCESSORIES AND PACKAGING

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

