

UTG900E Series Function Arbitrary Waveform Generators



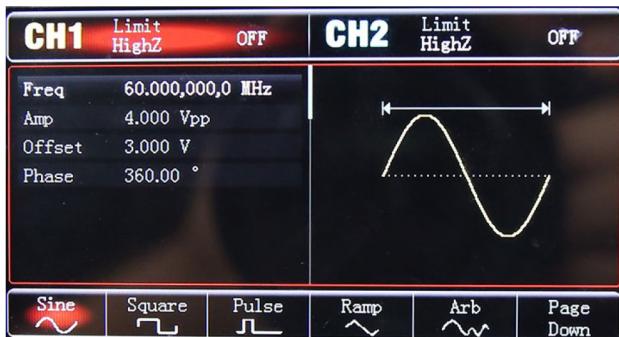
● Introduction

UTG900 series function arbitrary waveform generator uses direct digital synthesis technology to produce accurate and stable waveform output, as low as 1μHz resolution, is a handheld mini economy, high performance, multi-function arbitrary waveform generator. Can generate accurate, stable, pure, low distortion output signal, easy to operate, superior technical indicators and humanized graphic display, is a multi-purpose equipment to meet the needs of learning, testing, improve work efficiency.

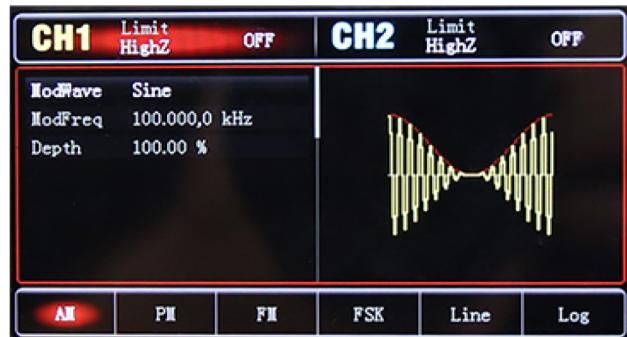
● Features

- 30/60MHz sine waveform output, 1μHz full-band resolution
- 200MSa/s sample rate, 14bit vertical resolution, Double channel
- portable handheld mini signal generator
- High-accuracy, broad-band 6 bit frequency counter, range: 100mHz~100MHz
- Easy to use modulation type: AM,FM,PM,FSK
- 24 non-volatile waveform stores
- 4.3 inches high resolution color TFT display

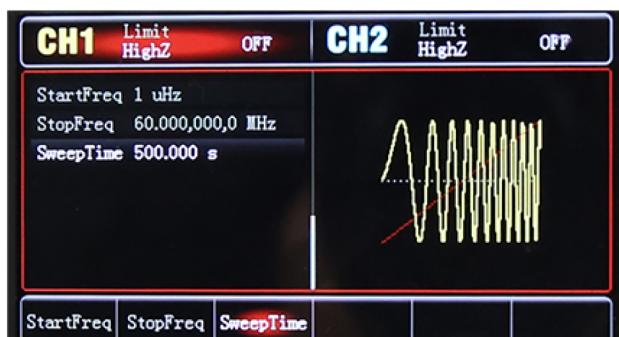
Design Features



Double Channel, Multiple basic waveform options



24 Select Arbitrary Wave



Linear and logarithmic scan signal



Easy to use modulation type

Nonvolatile storage	24 waveforms
Output characteristics	
Amplitude range	≤10MHz: 1mVpp~10Vpp; (50Ω) ≤60MHz: 1mVpp~5Vpp; (50Ω)
Accuracy (1kHz sine wave)	±(3% of set value+2mVpp)
Amplitude flatness (equal to 1kHz sine wave, 1Vpp/50Ω)	Test condition: typical value (sine wave, 2.0Vpp) ≤100MHz: ±0.1dB ≤60MHz: ±0.3dB
Waveform output	
Impedance	50Ω typical value
Insulation	Maximum 42Vpk to ground wire
Protection	Channel protection
Modulation types	
AM modulation	
Carrier wave	Sine wave, square wave, ramp wave, arbitrary wave
Source	Internal
Modulation wave	Sine wave, square wave, ramp wave, noise, arbitrary wave
Modulation frequency	2mHz~200kHz
Modulation depth	0%~120%
FM modulation	
Carrier wave	Sine wave, square wave, ramp wave, arbitrary wave
Modulation wave	Sine wave, square wave, ramp wave, noise, arbitrary wave
Modulation frequency	1μHz~200kHz
Frequency deviation	DC~15MHz DC~30MHz
PM modulation	
Carrier wave	Sine wave, square wave, ramp wave, arbitrary wave
Modulation wave	Sine wave, square wave, ramp wave, noise, arbitrary wave
Modulation frequency	2mHz~200kHz
Phase deviation	0°~360°
FSK modulation	
Carrier wave	Sine wave, square wave, ramp wave, arbitrary wave
Source	Internal/external
Modulation wave	Square wave (Duty ratio 50%)
Rate	2mHz~100kHz
Frequency sweep	
Carrier wave	Sine wave, square wave, ramp wave, arbitrary wave
Type	Linear or logarithmic
Frequency sweep time	1ms~500s ± 0.1%
Sync signal	
Output level	TTL compatible
Output frequency	1μHz~2MHz
Output frequency	50Ω, typical value
Coupled mode	DC
Trigger input	
Input level	TTL compatible
Input impedance	> 10kΩ, DC coupling
Frequency counter	
Input level	TTL compatible
Range of input frequency	100mHz~100MHz
Accuracy	±51ppm
Frequency resolution	7 digit
Coupled mode	DC
General technical specifications	
Display type	4.3 inches TFT LCD
Resolution	480×272
Power supply	DC5V, 2A
Power consumption	Less than 10W
Temperature range	Operating: 10°C~+40°C Non-operating: -20°C~+60°C

Cooling method	Natural cooling	
Humidity range	Below +35°C: ≤90% relative humidity +35°C~+40°C: ≤60% relative humidity	
Altitude	Operating below 2,000m Non-operating below 15,000m	
Dimensions	172mm×90mm×68mm	
Net weight	0.33kg	
Rough weight	0.77kg	
Ordering Information		
UTG900E Series	UTG962E(60MHz, 200MS/s, 2-Channel)	UTG962E
	UTG932E (30MHz, 200MS/s, 2-Channel)	UTG932E
Standard Accessories	Power cord conforming to the standard of the destination country	/
	USB interface cable	UT-D14
	1 BNC-alligator clip cable	UT-L02
	1 BNC cables (1M)	UT-L45