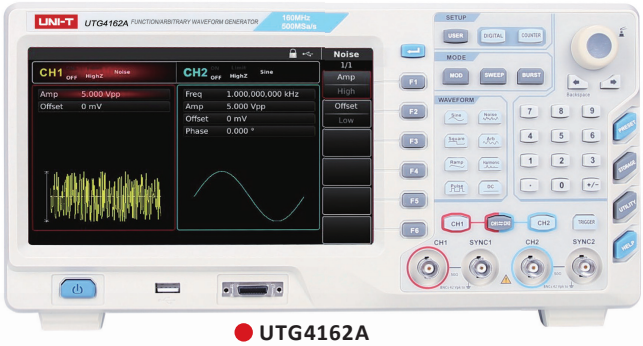
UTG4000A Series

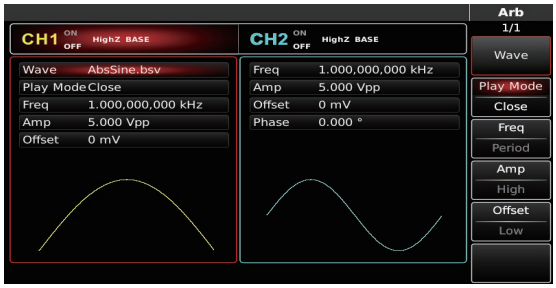
Pulse Function Arbitrary Wave Generators



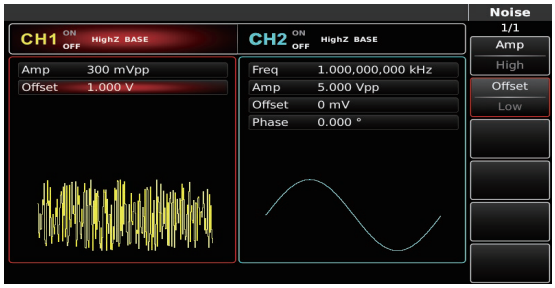
● UTG4162A

The UTG4000A Series waveform generators are applied to a wide range of application domain, integrating multiple waveforms for Function Generation, Arbitrary Waveform Generation, Pulse Generation, Harmonic Generation, Analog/Digital Modulation source.
The UTG4000A Series is a waveform generator with high sampling rate up to 500MS/s, MAX waveform length up to 32Mpt. To generate stable, precise, low distortion signals The UTG4000A Series adopts Direct Digital Synthesizer (DDS) technology. User-friendly interface design with high resolution 8 inches display screen and rational panel layout to improve operational efficiency.

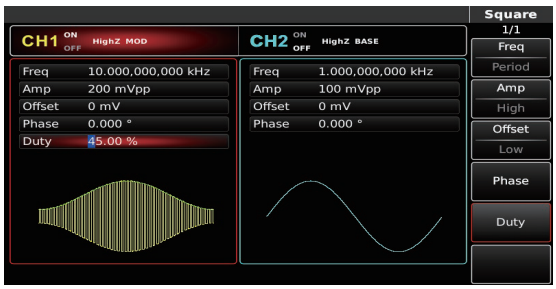
- 80MHz/120MHz/160MHz sine waveform output, 1μHz full-band resolution
- 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time
- 500MSa/s sampling rate, 16 bits vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 32Mpts arbitrary waveform length, 7GB non-volatile arbitrary waveforms
- Versatile modulation options: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- Frequency counter range: 100mHz～800MHz
- 8 inches TFT LCD,WVGA (800×480)
- Standard Ports: USB Host, USB Device, LAN, 10MHz Input, 10MHz Output, Frequency Counter, FSK Trig, Modulation In



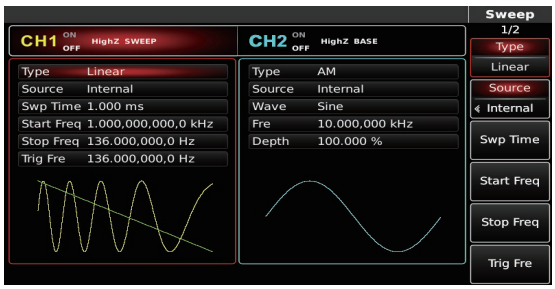
● Built-in arbitrary waveform available at any time



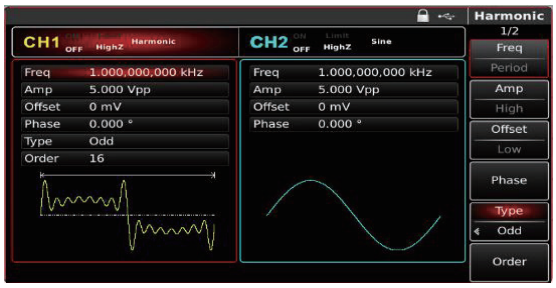
● Noise modes



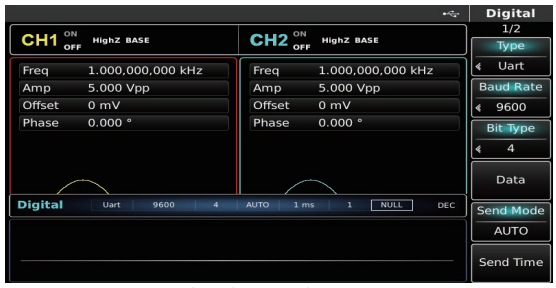
● Rich modulation functions



● Linear and logarithmic sweep waveform



● Customize harmonic generation function



● Special digital interface (optional)

Technical Specifications	UTG4082A	UTG4122A	UTG4162A
Max. frequency	80MHz	120MHz	160MHz
Channels	2		
Sampling rate	500MSa/s		
Waveforms	Sine,square,ramp,harmonic,pulse,noise,DC voltage,arbitrary		
Working modes	Output on/off, continuous, modulation, sweep, burst		
Modulation types	AM,FM,PM,ASK,FSK,PSK,BPSK,QPSK,OSK,PWM,SUM,QAM		
Frequency Characteristics			
Sine	1μHz~80MHz	1μHz~120MHz	1μHz~160MHz
Square/Pulse	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Slope	1μHz~2MHz	1μHz~3MHz	1μHz~4MHz
Harmonic	1μHz~40MHz	1μHz~60MHz	1μHz~80MHz
Noise (-3dB)	80MHz	120MHz	160MHz
Resolution	1μHz		
Arbitrary Waveform			
Frequency range	1μHz~20MHz	1μHz~30MHz	1μHz~40MHz
Memory depth	8pts~32Mpts		
Vertical resolution	16bits		
Min rise/fall time (typical: 1Vpp)	<7ns	<6ns	<5ns
Power	100V~240V AC, 50Hz/60Hz		
Display	8 inches TFT LCD, WVGA (800 x 480)		
Product net weight	3.5kg		
Product size (W×H×D)	336mm x 164mm x 108mm		
Standard quantity per carton	1pc		
Standard carton size	405mm x 225mm x 265mm		
Standard carton gross weight	4.8kg		

Ordering Information	
UTG4000A Series	UTG4162A: 160MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4122A: 120MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4082A: 80MHz, 500MSa/s, 32Mpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14: USB interface cable
	BNC cables (1M): 1 pair
Optional Accessories	UT-U02: digital cable