



### SPECIFICATIONS

Specifications	UTG2025A	UTG2062A
Channels	2	2
Sample Rate	125MS/s	250MS/s
Output Frequency	25MHz	60MHz
Frequency Resolution	1μHz	1μHz
Vertical Resolution	14 bits	14 bits
Max.Arb Memory Depth	8 kpts	1 Mpts
Waveforms	Sine, Square, Ramp, Triangle, Pulse, Noise, DC, Arb	
Output Amplitude Range	1mVpp~10Vpp(50Ω); 2mVpp~20Vpp(High Z)	
Modulation Types	AM, FM, PM, ASK, FSK, PWM, Sweep, Burst	
Interfaces	USB Device, USB Host, Frequency Counter	

### GENERAL CHARACTERISTICS

Power	100-240VAC, 50Hz/60Hz
Display	4.3 Inches TFT LCD, WVGA (480×272)
Product Color	White and Gray
Product Net Weight	3.2 kg
Product Size	165mm×320mm×110mm
Standard Accessories	BNC Cable, Power Cord, USB Cable, PC Software CD
Standard Individual Packing	Gift Box
Standard Quantity Per Carton	2 PCs
Standard Carton Measurement	380mm×330mm×320mm
Standard Carton Gross Weight	9.7 kg
Optional Accessories	LAN Port



## FEATURES AND BENEFITS

- ▶ 80MHz/120MHz/160MHz sine waveform output, 1 $\mu$ Hz full-band resolution ;
- ▶ 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time ;
- ▶ 500M/s sample rate, 16 bits vertical resolution ;
- ▶ Standard dual channels, supporting stand-alone or channel-coupling output mode ;
- ▶ 32Mpts arbitrary waveform length, 7GB nonvolatile memory;
- ▶ Versatile modulation choices: AM、FM、ASK、FSK、PSK、BPSK、QPSK、OSK、PWM、SUM、QAM
- ▶ 8 Inches TFT LCD,WVGA (800×480);
- ▶ Standard Ports: USB Host, USB Device, LAN,10MHz input/output, Frequency Counter, FSK Trig, Modulation In.

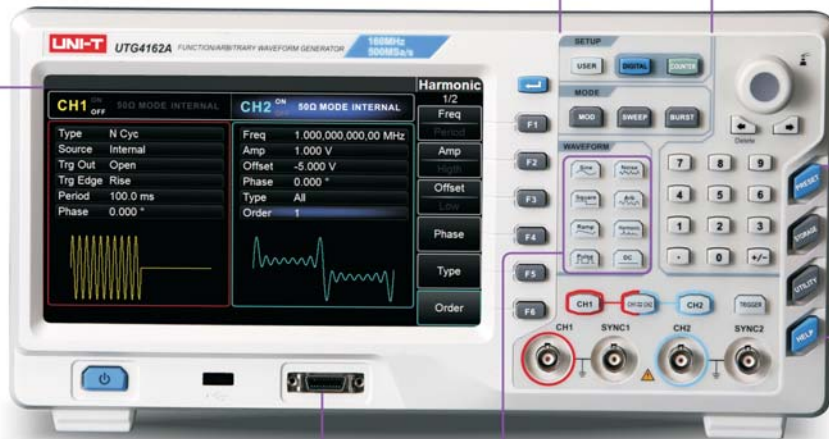


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EN61010-1

### INDUSTRIAL DESIGN

8 Inches TFT Color LCD Display  
with WVGA (800×480) Resolutions

Function Area



Quick  
Access  
Keys

Digital Signal Generation Output

Waveform Selection  
Shortcut Keys

Anti-Theft Lock Hole



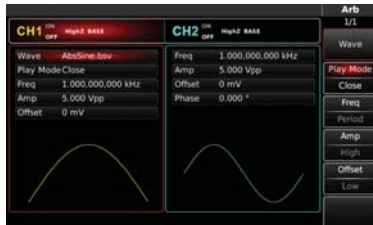
Multiple I/O Interfaces

Dimensions (W × H × D): 336mm × 164mm × 108mm



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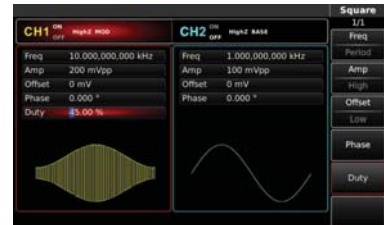
### USER INTERFACE



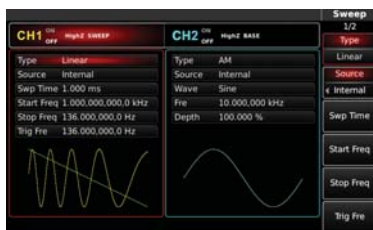
Arbitrary waveform function



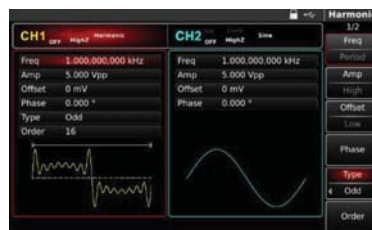
Noise Modes



Various Modulation Options



Linear and Logarithmic Sweep Available



Customize Harmonic Generation Function



Special Digital Interface (Optional)

### SPECIFICATIONS-Part 1

Specifications	UTG4082A	UTG4122A	UTG4162A
Channels	2	2	2
Bandwidth	80MHz	120MHz	160MHz
Sample Rate	500M/s	500M/s	500M/s
Waveforms	Sine, Square, Ramp, Harmonic, Pulse, Noise, DC, Arbitrary Waveforms		
Working Mode	Output Gate, Continuous, Modulate, Frequency Sweep, Burst		
Modulation Types	AM, FM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM		
<b>Frequency Characteristics</b>			
Sine	1μHz~80MHz	1μHz~120MHz	1μHz~160MHz
Square	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Pulse	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Ramp	1μHz~2MHz	1μHz~3MHz	1μHz~4MHz
Harmonic	1μHz~40MHz	1μHz~60MHz	1μHz~80MHz
Arbitrary	20MHz	30MHz	40MHz
Noise(-3dB)	80MHz Bandwidth	120MHz Bandwidth	160MHz Bandwidth
Resolution	1μHz	1μHz	1μHz
<b>Arbitrary Waveform</b>			
Waveform Length (Max.)	8~32Mpts	8~32Mpts	8~32Mpts
Vertical Resolution	16 bits	16 bits	16 bits
Sample Rate	500MSa/s	500MSa/s	500MSa/s
Min Fall/Rise Time	<7ns	<6ns	<5ns
Jitter(RMS)(typical)	6ns+30ppm	6ns+30ppm	6ns+30ppm
Nonvolatile Memory	7GB	7GB	7GB
<b>Digital Arbitrary Waveform (Optional)</b>			
Waveform Length	1~1k bits		
Sampling Rate	1S/s~40MS/s		
Transmission Mode	Manual single trigger, continuous trigger (no time delay)		
Waveform Resolution	16 bits maximum		
Output Voltage Level	TTL		
<b>Output Characteristics</b>			
Amplitude Range (50Ω)	≤20MHz:1mVpp~10Vpp	≤80MHz:1mVpp~5Vpp	≤120MHz:1mVpp~2.5Vpp
Accuracy(1kHz sine)	±(1% of setting value+1mVpp)		
Amplitude Flatness (with reference to 1kHz sine wave, 5Vpp)	≤10MHz :±0.1dB	≤80MHz : ±0.2dB	≤120MHz:±0.4dB
<b>DC Offset</b>			
Range(Peak AC+DC)	±5V(50Ω) ±10V (High resistance)		
Offset Accuracy	±(2% of Offset setting+ 0.5% of amplitude +2mV)		



## SPECIFICATIONS-Part 2

Specifications	
<b>Waveform Output</b>	
Impedance	50Ω, typical
Isolation	42Vpk maximum to earth
Protection	Short-circuited protection, waveform output disabled automatically when overloaded.
<b>Connector on Back Panel</b>	
<b>Modulation Input</b>	
External AM Modulation	<20kHz ±5Vpk full-scale 5kΩ (input impedance)
<b>Clock Input/Output</b>	
Input/output Frequency Range	10MHz±500Hz
Input/output Level Range	TTL Compatible
Input/output Impedance	10kΩ/ 50Ω(AC Coupled)
Lock Time	< 1s
<b>Trigger Input</b>	
Input Level	TTL Compatible
Slope	Rise or Fall,selectable
Pulse Width	>100ns
Input Impedance	> 10kΩ,DC-coupled
Response Time	Sweep:<500μs, Typical Burst:< 500ns, Typical
<b>Trigger Output</b>	
Level	TTL Compatible, to 50Ω
Pulse Width	>400ns,Typical
Output Impedance	50Ω,Typical
Max. Frequency	1MHz
<b>Sync Output</b>	
Input Level	TTL Compatible
Output Impedance	50Ω
<b>Frequency Counter</b>	
Level	TTL Compatible (200mV~9Vpp)
Input Frequency	100mHz~800MHz
Trigger Level	0~±2.5Vdc
Accuracy	±51ppm
Frequency Resolution	7 bits
High Frequency Rejection	ON/OFF
Trigger Sensitivity Adjustable	0%~100%
Coupling	DC, AC

## GENERAL CHARACTERISTICS

Power	100~240 VAC, 50Hz/60Hz
Display	8 Inches TFT Color LCD Display with WVGA(800 × 480) Resolution
Product Color	White and Gray
Product Net Weight	3.5 kg
Product Size (W×H×D)	336mm × 164mm × 108mm
Standard Accessories	BNC Cable, Power Cord, USB Cable, PC Software CD
Standard Individual Packing	Gift Box
Standard Quantity Per Carton	2 PCs
Standard Carton Measurement(L×W×H)	336mm × 164mm × 108mm
Standard Carton Cross Weight	9.5 kg
<b>Optional Accessories</b>	Digital Protocol Connector