

## 30MHz Arbitrary Waveform Signal Generator



### FEATURES

- 4.3" High Resolution TFT LCD Display
- Two Independent Channels Output, Same Characteristic
- 1 $\mu$ Hz Frequency Resolution for whole range
- 120 MSa/s Sampling Rate, 14 Bits Vertical Resolution
- 5 Standard Waveforms, 50 Built-in and 5 User-defined Arbitrary Waveforms
- FM, AM, PM, PWM, Sum, FSK, BPSK and SUM Modulation, Sweep and Burst Function
- Channel Coupling and Combine Features On CHB
- Build in 350MHz Frequency Counter
- Arbitrary Waveform Edit PC Software
- Standard Interface: USB Host, USB Device and RS-232

## Technical Specifications

<b>Frequency</b>		
Range	Sine	1 $\mu$ Hz ~ 30MHz.
	Square, Pulse	1 $\mu$ Hz ~ 10MHz.
	Others	1 $\mu$ Hz ~ 5MHz.
Resolution		1 $\mu$ Hz.
Accuracy		$\pm$ (50ppm+1 $\mu$ Hz).
<b>Waveform</b>		
Type	Standard	Sine, Square, Ramp, Pulse, Noise.
	Arbitrary	50 built-in waveforms + 5 user-defined waveforms
Sine	Harmonic Distortion	$\leq$ 60dBc (F<5MHz).
		$\leq$ 50dBc (F $\geq$ 5MHz).
	Total Distortion	$\leq$ 0.1% (20Hz ~ 20kHz, 20Vpp).
Square	Edge Time	$\leq$ 20ns.
Pulse	Overshoot	$\leq$ 10%.
	Duty Cycle	0.1% ~ 99.9%.
	Pulse Width	50ns ~ 2000s.
Ramp	Symmetry	0.0% ~ 100.0%.
Arbitrary	Length	4096 points.
	Sampling Rate	120 MSa/s.
	Vertical Resolution	14 bits (CHA); 10bits (CHB).
<b>Amplitude</b>		
Range		0.1mVpp ~ 10Vpp (50 $\Omega$ ), 0.2mVpp ~ 20Vpp (Open circuit).
Resolution		1mVpp (Amplitude $\geq$ 1Vpp), 0.1mVpp (Amplitude <1Vpp).
Accuracy		$\pm$ (1% of setting+1mVpp).
<b>DC Offset</b>		
Range		$\pm$ 5V DC (50 $\Omega$ ), $\pm$ 10V DC (High Z).
Accuracy		$\pm$ (1% of setting + 1mV DC).
<b>Modulation (CHA)</b>		
FM, AM, PM, PWM, SUM	Carrier Waveform	Sine, Square, Ramp, etc. (only Pulse for PWM).
	Modulating Waveform	Sine, Square, Ramp, etc.
	Modulating Frequency	1 $\mu$ Hz ~ 100kHz.
FSK, BPSK	Carrier Waveform	Sine, Square, Ramp, etc.
	Hope Frequency	1 $\mu$ Hz ~ 30MHz.
	Hope Rate	1 $\mu$ Hz ~ 100kHz.
<b>Sweep (CHA)</b>		
Carrier Waveforms		Sine, Square, Ramp, etc.
Sweep Mode		Linear or Logarithmic.
Sweep Time		5ms ~ 500s.
List Sweep		Length : 600, Stop Time : 5ms to 500s, Hold Time: 0 to 500s.
<b>Burst (CHA)</b>		
Burst Waveform		Sine, Square, Ramp, etc.
Burst Count		1 ~ 1000000.
<b>Frequency Counter</b>		
Frequency Range		0.01Hz ~ 350MHz, resolution : 6 digits/s.
Period, Pulse Width		100ns ~ 20s.
Duty Cycle		1% ~ 99%.
<b>General Characteristics</b>		
Power		AC 100 ~ 240V, 45 ~ 65Hz, <30VA.
Dimension		256 x 102 x 322 mm.
Weight		Approx. 3 Kg.
<b>Standard Accessories</b>		
Power Cord		1 No.
BNC Cable		1 No.
CD (Software+User's Guide)		1 No.

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