

30MHz Arbitrary Waveform Signal Generator



FEATURES

- 4.3" High Resolution TFT LCD Display
- Two Independent Channels Output, Same Characteristic
- 1μHz 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

Frequency		
Range	Sine	1 μ Hz ~ 30MHz.
	Square, Pulse	1 μ Hz ~ 10MHz.
	Others	1 μ Hz ~ 5MHz.
Resolution		1 μ Hz.
Accuracy		\pm (50ppm+1 μ Hz).
Waveform		
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).
Amplitude		
Range		0.1mVpp ~ 10Vpp (50 Ω), 0.2mVpp ~ 20Vpp (Open circuit).
Resolution		1mVpp (Amplitude \geq 1Vpp), 0.1mVpp (Amplitude <1Vpp).
Accuracy		\pm (1% of setting+1mVpp).
DC Offset		
Range		\pm 5V DC (50 Ω), \pm 10V DC (High Z).
Accuracy		\pm (1% of setting + 1mV DC).
Modulation (CHA)		
FM, AM, PM, PWM, SUM	Carrier Waveform	Sine, Square, Ramp, etc. (only Pulse for PWM).
	Modulating Waveform	Sine, Square, Ramp, etc.
	Modulating Frequency	1 μ Hz ~ 100kHz.
FSK, BPSK	Carrier Waveform	Sine, Square, Ramp, etc.
	Hope Frequency	1 μ Hz ~ 30MHz.
	Hope Rate	1 μ Hz ~ 100kHz.
Sweep (CHA)		
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.
Burst (CHA)		
Burst Waveform		Sine, Square, Ramp, etc.
Burst Count		1 ~ 1000000.
Frequency Counter		
Frequency Range		0.01Hz ~ 350MHz, resolution : 6 digits/s.
Period, Pulse Width		100ns ~ 20s.
Duty Cycle		1% ~ 99%.
General Characteristics		
Power		AC 100 ~ 240V, 45 ~ 65Hz, <30VA.
Dimension		256 x 102 x 322 mm.
Weight		Approx. 3 Kg.
Standard Accessories		
Power Cord		1 No.
BNC Cable		1 No.
CD (Software+User's Guide)		1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

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