

## 5 / 10 / 20 MHz Multiwaveform Arbitrary Signal Generator



### Features

- Economic and Light Weight
- Dual Output with Same Characteristic
- 1 $\mu$ Hz Frequency Resolution
- 11 Built-in Waveforms and 5 User defined Arbitrary Waveforms
- AM, FM, PM, PWM, FSK Modulation, Frequency Sweep and Burst Function
- Built-in 100MHz Frequency Counter
- Arbitrary Waveform Editing PC Software
- USB Host, USB Device

### Technical Specifications

		MASG5M	MASG10M	MASG20M
<b>Frequency</b>				
Range	Sine	1 $\mu$ Hz ~ 5MHz	1 $\mu$ Hz ~ 10MHz	1 $\mu$ Hz ~ 20MHz
	Square, Pulse	1 $\mu$ Hz ~ 5MHz		
	Others	1 $\mu$ Hz ~ 1MHz		
Resolution		1 $\mu$ Hz		
Accuracy		$\pm$ 20 ppm.		
<b>Waveform</b>				
Type		11 build-in waveform (Sine, Square, Ramp, Pulse etc.) + 5 user defined arbitrary waveforms.		
Arbitrary	Length	4096 points.		
	Sampling Rate	100 MSa/s.		
	Vertical Resolution	10 bits.		
<b>Amplitude</b>				
Range	Frequency $\leq$ 8MHz	0 ~ 10V p-p (50 $\Omega$ ), 0 ~ 20V p-p (open circuit).		
	Frequency > 8MHz	0 ~ 9V p-p (50 $\Omega$ ), 0 ~ 18V p-p (open circuit).		
Resolution		2mV p-p (Amplitude > 2V p-p).		
		0.2mV p-p (Amplitude $\leq$ 2V p-p).		
<b>DC Offset (Amplitude 0V p-p)</b>				
Range		$\pm$ 5V DC (50 $\Omega$ ), $\pm$ 10V DC (open circuit).		
Resolution		2mV DC.		

<b>Modulation (CHA)</b>			
FM, AM, PM	Carrier Waveform	16 waveforms, Sine, Square, Ramp etc. (only Pulse for PWM).	
PWM	Modulating Waveform	16 waveforms, Sine, Square, Ramp etc.	
	Modulating Frequency	2mHz ~ 20kHz.	
FSK	Carrier Waveform	16 waveforms, Sine, Square, Ramp etc.	
	Hope Frequency	1μHz ~ 5MHz	1μHz ~ 1MHz
	FSK Rate	1mHz ~ 100kHz	
<b>Frequency Sweep (CH A)</b>			
Carrier Waveform		16 waveforms, Sine, Square, Ramp etc.	
Sweep Mode		Linear or Logarithmic.	
Sweep Time		50ms ~ 500s.	
<b>Burst (CH A)</b>			
Burst Waveform		16 waveforms, Sine, Square, Ramp etc.	
Burst Count		1 ~ 1000000.	
Internal Period		1μs ~ 500s.	
Start / Stop Phase		0° ~ 360°.	
<b>SYNC Output</b>			
Waveform Characteristic		Square, edge time ≤ 20ns.	
Output Level		TTL compatible.	
<b>Frequency Counter</b>			
Frequency Range		1Hz ~ 100MHz.	
Input Amplitude		100mVrms ~ 7Vrms.	
Period		50ms ~ 5s.	
<b>General Characteristics</b>			
Power		AC 100 ~ 240V, 45 ~ 65Hz, <30VA.	
Display		VFD display.	
Dimension		322 x 256 x 102 mm.	
Weight		1.5 Kg.	

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