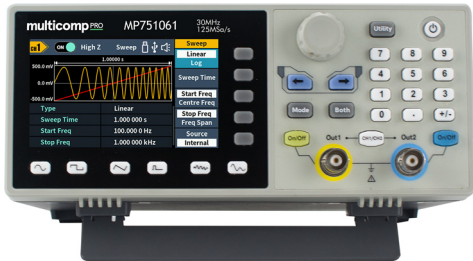


# Arbitrary Waveform Generator

**multicomp**PRO

**RoHS  
Compliant**



## Features

- Max 60MHz frequency output, 300MSa/s Sample rate
- 14 bits Vertical Resolution, 100K Arb waveform length
- Comprehensive waveform output : 5 basic waveforms, and 160 built-in arbitrary waveforms
- Comprehensive modulation functions : AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSBAM, QPSK, SUM, sweep Burst
- SCPI, and LabVIEW supported
- 3.6 inch (480 × 272 pixels) multi-touch screen, support

## Performance Specifications

Model	MP751061	MP751062
Channel	2	
Frequency Output	30MHz	60MHz
Sample Rate	125MSa/s	300MSa/s
Vertical Resolution	14 bits	
Waveform		
Standard Waveform	sine, square, pulse, ramp, noise	
Arbitrary Waveform	Exponential rise, exponential fall, sin(x)/x, step wave, and others, total 150 built-in waveforms	
Frequency (resolution 1μHz)		
Sine	1μHz-30MHz	1μHz-60MHz
Square	1μHz ~ 15MHz	1μHz ~ 20MHz
Pulse	1μHz ~ 15MHz	1μHz ~ 20MHz
Ramp	1μHz ~ 1MHz	1μHz ~ 2MHz
Noise	20MHz (-3dB, typical)	
Arbitrary Waveform	1μHz ~10MHz	
Sine Wave Spectrum Purity		
Harmonic Distortion (typical (0dB))	DC - 1MHz: <-65dBc 1MHz - 30MHz: <-60dBc 30MHz - 60MHz: <-50dBc	
Total Harmonic Distortion	<0.2%, 10 Hz to 20 kHz, 1 Vpp	
Spurious (non-harmonic) (typical (0dB))	≤10MHz: <-70dBc >10MHz: <-70dBc + 6dB/ octave band	
Phase Noise (typical (0 dBm, 10 kHz deviation))	typical (0dBm, 10kHz offset) 10MHz: -110dBc/Hz	
Square		
Rise / Fall Time	<15ns	
Overshoot	< 2%	
Duty Cycle	5% (fixed)	
Jitter (rms)	200ps + 30ppm	

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Model	MP751061	MP751062
Pulse		
Pulse Width	≥24ns	
Rise / Fall Time	≥15ns	
Jitter (rms)	200ps + 30ppm	
Ramp		
Linearity	≤1% of peak output (typical, 1kHz, 1 Vpp, 50% symmetry)	
Symmetry	0% ~ 100%	
Arbitrary		
Waveform Length	2 points – 100K points	
Sample Rate	125MSa/s	300MSa/s
Amplitude		
into 50Ω load	1mVpp ~ 10Vpp (≤10Hz) 1mVpp ~ 5Vpp (≤60MHz)	
DC Offset Range (AD+DC)	±(10 Vpk – Amplitude Vpp/2) high resistance ±(5 Vpk – Amplitude Vpp/2) 50 Ω	
DC offset resolution	1mV or 4digits	
Load Impedance	50Ω (typical)	
DC offset Accuracy	±(1 % of  setting  + 1 mV + amplitude Vpp * 0.5%)	
Modulation		
Type	AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSB-AM, QPSK, SUM, Sweep Burst	
AM		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal / external	
Modulating Waveform	sine, square, ramp, noise	
Depth	0.0%~100.0%	
Modulating Frequency	2 mHz ~100KHz	
FM		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal / external	
Modulating Waveform	sine, square, ramp, noise, and arbitrary	
Modulating Frequency	2 mHz ~100KHz	
PM		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal / external	
Modulating Waveform	sine, square, ramp, noise	
Phase Deviation	0° - 180°	
Modulating Frequency	2 mHz –100KHz	
ASK/FSK/3FSK/4FSK		
Carrier Waveform	Sine, square, ramp, and arbitrary (except DC)	
Source	Internal	

# Arbitrary Waveform Generator **multicomp**PRO

Model	MP751061	MP751062
Modulating Waveform	square with 50% duty cycle	
Key Frequency	2 mHz - 1MHz	
PSK		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal / external	
Modulating Waveform	square with 50% duty cycle	
Key Frequency	2 mHz - 1MHz	
BPSK		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal	
Modulating Waveform	square with 50% duty cycle	
Key Frequency	2 mHz - 1MHz	
OSK		
Carrier Waveform	sine	
Source	internal	
Oscillation Time	square with 50% duty cycle	
Key Frequency	2 mHz - 1MHz	
DSB-AM		
Carrier Waveform	sine, square, ramp	
Source	internal / external	
Internal frequency	2mHz~100kHz	
Depth	0.0%~100.0%	
QPSK		
Carrier Waveform	sine	
Source	internal	
frequency	2mHz~1MHz	
SUM		
Carrier Waveform	sine, square, ramp	
Source	internal / external	
Internal am frequency	2mHz~100kHz	
Depth	0.0%~100.0%	
PWM		
Carrier Waveform	pulse	
Source	internal / external	
Modulating Waveform	sine, square, ramp, noise	
Modulating Frequency	2 mHz ~ 100kHz	
Deviation	0~min	
Pulse train responses		
Carrier	Sine, Square, Pulse, and Arbitrary Waveform (except DC)	

# Arbitrary Waveform Generator **multicomp**PRO

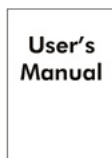
Model	MP751061	MP751062
Carrier frequency	BW/2	
Type	unlimited, gated	
Gated Source	external trigger	
Sweep characteristic		
carrier	sine, square, ramp, and arbitrary (except DC)	
Minimum / maximum starting frequency	2mHz	
Type	linear, logarithmic	
Direction	up / down	
Scanning time	1 ms to 500 s ± 0.1%	
Trigger source	Internal, manual	
Frequency Counter		
Function	Frequency, period	
Frequency Range	100mHz ~ 100MHz	
Frequency Resolution	6 digits	
Input / Output		
Display	3.6" 280 × 2720 pixels LCD	
Input mode	external modulation input, external trigger input,	
Communication Interface	USB Host, USB Device	
Mechanical specifications		
Size	200mm (L) × 92mm (H) × 156.2mm (D)	
Weight	0.8kg	
Warranty	03 years	



Power Cord



CD Rom



Quick Guide



USB Cable



BNC Cable



BNC to Alligator Clip

## Part Number Table

Description	Part Number
Arbitrary Waveform Generator, 2 Channel, 30MHz	MP751061
Arbitrary Waveform Generator, 2 Channel, 60MHz	MP751062

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