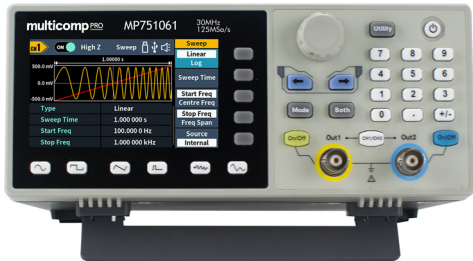


# Arbitrary Waveform Generator **multicomp** PRO

**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	
<b>Waveform</b>		
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	
<b>Frequency (resolution 1μHz)</b>		
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	
<b>Sine Wave Spectrum Purity</b>		
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	
<b>Square</b>		
Rise / Fall Time	<15ns	
Overshoot	< 2%	
Duty Cycle	5% (fixed)	
Jitter (rms)	200ps + 30ppm	

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

**multicomp** PRO

# Arbitrary Waveform Generator **multicomp** PRO

Model	MP751061	MP751062
<b>Pulse</b>		
Pulse Width	≥24ns	
Rise / Fall Time	≥15ns	
Jitter (rms)	200ps + 30ppm	
<b>Ramp</b>		
Linearity	≤1% of peak output (typical, 1kHz, 1 Vpp, 50% symmetry)	
Symmetry	0% ~ 100%	
<b>Arbitrary</b>		
Waveform Length	2 points – 100K points	
Sample Rate	125MSa/s	300MSa/s
<b>Amplitude</b>		
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%)	
<b>Modulation</b>		
Type	AM, FM, PM, PWM, FSK, 3FSK, 4FSK, PSK, ASK, BPSK, OSK, DSB-AM, QPSK, SUM, Sweep Burst	
<b>AM</b>		
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	
<b>FM</b>		
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	
<b>PM</b>		
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	
<b>ASK/FSK/3FSK/4FSK</b>		
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	
<b>PSK</b>		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal / external	
Modulating Waveform	square with 50% duty cycle	
Key Frequency	2 MHz - 1MHz	
<b>BPSK</b>		
Carrier Waveform	sine, square, ramp, and arbitrary (except DC)	
Source	internal	
Modulating Waveform	square with 50% duty cycle	
Key Frequency	2 MHz - 1MHz	
<b>OSK</b>		
Carrier Waveform	sine	
Source	internal	
Oscillation Time	square with 50% duty cycle	
Key Frequency	2 MHz - 1MHz	
<b>DSB-AM</b>		
Carrier Waveform	sine, square, ramp	
Source	internal / external	
Internal frequency	2mHz~100kHz	
Depth	0.0%~100.0%	
<b>QPSK</b>		
Carrier Waveform	sine	
Source	internal	
frequency	2mHz~1MHz	
<b>SUM</b>		
Carrier Waveform	sine, square, ramp	
Source	internal / external	
Internal am frequency	2mHz~100kMHz	
Depth	0.0%~100.0%	
<b>PWM</b>		
Carrier Waveform	pulse	
Source	internal / external	
Modulating Waveform	sine, square, ramp, noise	
Modulating Frequency	2 MHz ~ 100kMHz	
Deviation	0~min	
<b>Pulse train responses</b>		
Carrier	Sine, Square, Pulse, and Arbitrary Waveform (except DC)	

# Arbitrary Waveform Generator **multicomp** PRO

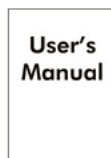
Model	MP751061	MP751062
Carrier frequency	BW/2	
Type	unlimited, gated	
Gated Source	external trigger	
<b>Sweep characteristic</b>		
carrier	sine, square, ramp, and arbitrary (except DC)	
Minimum / maximum starting frequency	2mHz	
Type	linear, logarithmic	
Direction	up / down	
Scanning time	1 ms to 500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



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

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
 Farnell.com/multicomp-pro  
 sg.element14.com/b/multicomp-pro

**multicomp** PRO