

Arbitrary Waveform Generator **multicomp** PRO

**RoHS
Compliant**



Features

- Max 70MHz frequency output and 300MSa/s Sample rate
- 14 bits Vertical Resolution, Vertical resolution 1 μ Hz
- 8K waveform length
- Comprehensive waveform output : 5 basic waveforms, and 150 built-in arbitrary waveforms
- Comprehensive modulation functions : AM, FM, PM, FSK and Sweep Burst
- SCPI, and LabVIEW supported
- 3.6 inch (480 \times 272 pixels) LCD

Performance Specifications

| Model | MP751059 | MP751060 |
|----------------------|--|--------------------|
| Channel | 2 | |
| Frequency Output | 35MHz | 70MHz |
| Sample Rate | 500MSa/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 | | |
| Sine | 1 μ Hz-35MHz | 1 μ Hz -70MHz |
| Square | 1 μ Hz ~ 15MHz | 1 μ Hz ~ 20MHz |
| Pulse | 2mHz ~ 15MHz | 1 μ Hz ~ 20MHz |
| Ramp | 2mHz ~ 1MHz | 1 μ Hz ~ 2MHz |
| Noise | 20MHz (-3dB, typical) | |
| Arbitrary Waveform | 2mHz ~ 10MHz | |
| Frequency resolution | 1 μ Hz or 7 significant figures | |
| Frequency stability | \pm 30 ppm at 0 \pm 40 $^{\circ}$ C | |
| Frequency aging rate | \pm 30 ppm per year | |
| Arbitrary | | |
| Waveform Length | 2 points – 8K points | |
| Sample Rate | 125Ma/s | 300Ma/s |
| Amplitude | | |
| Amplitude | 1mVpp ~ 8Vpp (\leq 10MHz) 1mVpp ~ 5Vpp (\leq 70MHz) | |

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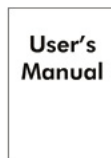
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|---------------------------------------|---|
| DC Offset Range (AD+DC) | $\pm(10 V_{pk} - \text{Amplitude } V_{pp}/2)$ high resistance $\pm(5 V_{pk} - \text{Amplitude } V_{pp}/2) 50 \Omega$ |
| DC offset resolution | 1mV or 4 digits |
| Load Impedance | 50 Ω (typical) |
| DC offset Accuracy | $\pm(1 \% \text{ of } \text{setting} + 1 \text{ mV} + \text{amplitude } V_{pp} * 0.5\%)$ |
| Modulation | |
| Type | AM, FM, PM, FSK |
| Internal Modulation Frequency | 2 mHz to 100 kHz |
| Sweep characteristic | |
| Carrier | Sine, rectangular wave, ramp wave, arbitrary wave (Except DC) |
| Minimum/maximum starting frequency | 2mHz (minimum) / maximum frequency of corresponding carrier |
| Minimum/maximum termination frequency | 2mHz (minimum) / maximum frequency of corresponding carrier |
| Trigger source | Internal, external, |
| Burst characteristic | |
| Waveform | Sine wave, square wave, ramp wave, pulse wave and arbitrary wave (Except DC) |
| Types | N-Cycle |
| Trigger source | Internal, manual |
| Carrier frequency | $2 \text{ mHz} \leq \text{Offset} \leq \text{Maximum frequency of corresponding carrier} / 2$ |
| Input / Output | |
| Display | 3.6" 480 × 272 pixels LCD |
| Communication Interface | USB Device |
| Mechanical specifications | |
| Size | 200mm × 68.5mm × 75mm |
| Weight | 0.5kg |



Power Cord



Adapter



Quick Guide



USB Cable



BNC Cable



BNC to Alligator Clip

Part Number Table

| Description | Part Number |
|--|-------------|
| Arbitrary Waveform Generator, 2 Channel, 35MHz | MP751059 |
| Arbitrary Waveform Generator, 2 Channel, 70MHz | MP751060 |

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