

Sciencetech 4061S 10MHz Function -Pulse Generator with 50MHz Frequency Counter are based on Direct Digital Synthesis technique to create stable and accurate output waveforms. They also offer linear ramp and square wave and pulse with fast rise/fall time. Generator also having built in Arbitrary waveforms to be used in various applications like Biomedical, Audio, Mathematics, etc. Front-panel operation is very user friendly. Internal Modulation makes it easy to modulate waveforms without the need of any separate modulation source. Sciencetech 4061S Function Generators are ideal partner for your laboratories.

Applications

- Analog & Digital Communications
- Instrumentation and Control
- Embedded Systems
- Analog & Digital Circuit Design
- Education & Training
- Audio Circuit Design
- Bio-medical

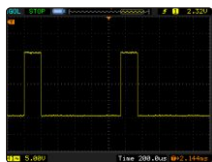
Features

- DDS (Direct Digital Synthesis) Technique
- Frequency Resolution 1mHz
- Waveforms - Sine, Square, Triangle, Ramp, Pulse, TTL, Sinc, Cardiac, Blackman, Stair Up, Stair Down, Exponential Rise, Exponential Fall, Voice, Noise, Sine Vertical, Alternate Attenuation, Alternate Amplification, Round PM, Absolute Sine
- 50 MHz Frequency Counter
- Low Distortion
- 20Vpp Output (O.C.)
- Ethernet (optional)
- Internal Modulations & TTL
- TFT Color LCD Display
- Amplitude Readout
- Rise/Fall time ≤ 20 ns
- High Accuracy
- 60dB Attenuation
- DCOffset

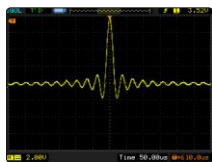
Technical Specifications

| | |
|--------------------------------------|---|
| Operating Modes | : Sine, Square, Triangle, Ramp, Pulse, Cardiac, Sinc, Noise, Exponential Rise, Exponential Fall, Blackman, Voice Negative Ramp, TTL, Sine Vertical, Alternate Attenuation, Alternate Amplification, Round PM, Absolute Sine |
| Frequency range (Sine Wave) | : 1mHz – 10MHz |
| Frequency range (other waveforms) | : 1mHz – 3MHz (Others) |
| Frequency Resolution | : 1mHz |
| Frequency Display Accuracy | : $\pm 0.2\%$ |
| Sine wave Distortion | : $<0.5\%$ (20Hz-499Hz), $<0.3\%$ (500Hz-20KHz) |
| Rise/Fall Time | : $\leq 20\text{ns}$ |
| Jitter | : 5nS (Square) & 10nS (Ramp & Pulse) |
| Triangle Non-Linearity | : $\leq 1\%$ (typical) |
| Pulse Duty Cycle | : 5% to 95% Digitally Controlled |
| Output | : 20Vpp O.C., 10Vpp into 50Ω |
| Output Impedance | : 50Ω |
| Amplitude Readout | : $+5\% \pm 1$ digit |
| Attenuation | : 20dB/40dB Fixed & 20dB Variable (60dB Max.) |
| Level Flatness | : 0.5dB (3MHz) |
| DC Offset | : $\pm 5\text{V}$ adjustment |
| Internal Modulation | : FM Modulation (with variable deviation frequency) |
| Frequency Counter | : 50MHz (External) |
| Sensitivity | : 0.5Vrms |
| Input Impedance | : $1\text{M}\Omega$ |
| Max. Input Voltage | : 200V (DC + AC Peak) |
| Mains Supply | : 230V AC $\pm 10\%$, 50Hz |
| Power Consumption | : 20VA (approximately) |
| Dimension (mm) | : W 212 X H114 x D283 |
| Weight | : 2Kgs (approximately) |
| Operating Conditions | : 0-40°C, 85%RH |
| Included Accessories | : BNC to BNC cable & Power cord - 1 no. (each) |
| Ethernet Interface (optional) | : User can remotely control these Instruments |

Built in Waveforms



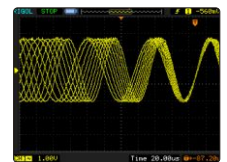
Pulse



Sinc



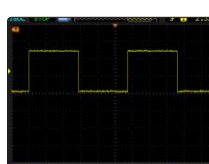
Cardiac



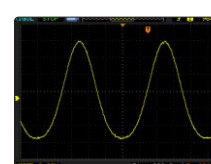
FM



Stair Up



TTL



Blackman

and many more...