



GPS

21100 series

Designed to enhance waveform generation;
built for lasting power and durability.

The testing of physical systems and transducers often needs stable and reliable signals. The GPS-211XX series is our most powerful function/arbitrary waveform generator featuring a maximum high output frequency of 160MHz and is a dual-channel device offering wave length of 16kpts (CH 1) and 512kpts (CH 2). As with other GPS function generators, this model also gains an advantage over other similar instruments with the integration of EasyPulse[®] technology which provides an abundant of advantages to the user including low jitter and more flexible pulse width adjustment, With an easy-to-read color display and intuitive user interface with numeric keypad, these instruments offer plenty of features including linear/logarithmic sweep, built-in counter, extensive modulation and triggering capabilities, a continuously variable DC offset, and a high performance 14-bit, 500 MSa/s arbitrary waveform generator.

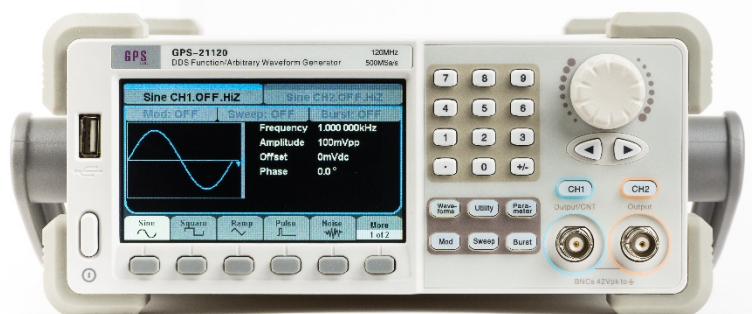


Figure 1 Model shown GPS-21120

Key Features

- 14-bit, 500 MSa/s, 512k point arbitrary waveform generator
- Two independent channels with one button synchronization
- 2ppm high frequency stability, -116dBc/Hz low phase noise
- Rich modulation features
- High resolution 4.3-inch LCD color display
- High precision frequency counter enables measuring ranges 100MHz-200MHz (single channel)
- 10 MHz reference clock input and output

Ideal for

- Research and development
- Educational institutions
- Electronic and electrical equipment repair businesses
- Stimulus/response testing, frequency response characterization, and in-circuit signal injection

Technical Specifications

| Model | GPS-21120 | GPS-21160 |
|----------------------------|---|----------------------|
| Maximum output frequency | 120 MHz | 160 MHz |
| Output channels | 2 | |
| Sampling rate | 500 MSa/s | |
| Wave length | CH1: 16 Kpts CH2: 512 Kpts or 16 Kpts | |
| Frequency resolution | 1 μ Hz | |
| Vertical resolution | 14 bits | |
| Waveform | Sine, Square, Ramp, Pulse, Gaussian white noise, DC. Plus 36 types of built-in predefined arbitrary waveforms | |
| Sine wave | 1 μ Hz ~ 120 MHz | 1 μ Hz ~ 160 MHz |
| Square wave | 1 μ Hz ~ 40 MHz | 1 μ Hz ~ 50 MHz |
| Pulse | 1 μ Hz ~ 30 MHz | 1 μ Hz ~ 40 MHz |
| Ramp/Triangular | 1 μ Hz ~ 3 MHz | 1 μ Hz ~ 4 MHz |
| Gaussian white noise | 100 MHz (-3 dB) | |
| Arbitrary waveform | 1 μ Hz ~ 30 MHz | 1 μ Hz ~ 40 MHz |
| Modulation function | AM, FM, PM, DSB-AM, FSK, ASK, PWM, Sweep, Burst | |
| Standard configuration | USB device port (USBTMC-compliant) and front panel USB host port GPIB connectivity with optional USB-to-GPIB adapter | |
| Amplitude (high impedance) | 1 mVpp - 10 Vpp, \leq 40 MHz, 1 mVpp - 5 Vpp, \leq 100 MHz, 1 mVpp - 1.5 Vpp, \leq 160 MHz | |

Standard Accessories

EasyWave© software
USB cable
220V AC EU power cord
Quick-start guide
Calibration certificate

Input Voltage

100 - 240 VAC \pm 10%, 50 / 60 Hz \pm 5%
100 - 120 VAC \pm 10%, 45 - 440 H

Power

30 W max.

EMC

EMC Directive 2004/108/EC,
EN61326:2006, EN61000-3-2:2006+A2:2009, EN61000-3-3:200

Safety

low voltage directive 2006/95/EC,
EN61010-1:2001, EN61010-031:2002+A1:2008

General Specifications

| Part Numbers / Optional Accessories | | |
|-------------------------------------|--|-------------|
| Code | Item | Part Number |
| GPS-21120 | 120 MHz, dual channel, function/arbitrary waveform generator | 202210 |
| GPS-21160 | 160 MHz, dual channel, function/arbitrary waveform generator | 202601 |

Dimensions

261 x 105 x 344mm / 10 x 4 x 13.5" (w x d x h) approx.

Mass

2.8kg/6.1lbs approx.

Operating:

0°C ~ 40°C
Below +35°C: \leq 90% relative humidity
+35°C ~ +40°C: \leq 60% relative humidity
 \leq 3000m

Services

1-year warranty (subject to product registration with GPS Ltd)

Visit www.gpslimited.com/register-product
Service and calibration available.

Please contact for more information

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