



GPS

# 2100S

A series of single-channel arbitrary generators that deliver accurate signal performance guided by an intuitive user interface

Integrating the newly innovated EasyPulse© technology, 2100S range can generate pulse of low jitter, quick rising/falling edge regardless of frequency effect, while the duty cycle, edge and pulse width can be extensively and accurately adjusted. This gives a major advantage over any DDS generator in the market with its versatility. With its built-in 46 types of arbitrary waveforms, complete set of modulation functions and powerful PC waveform editing software, EasyWave©, the GPS-2100S series provides a comprehensive package at an unbeatable price.

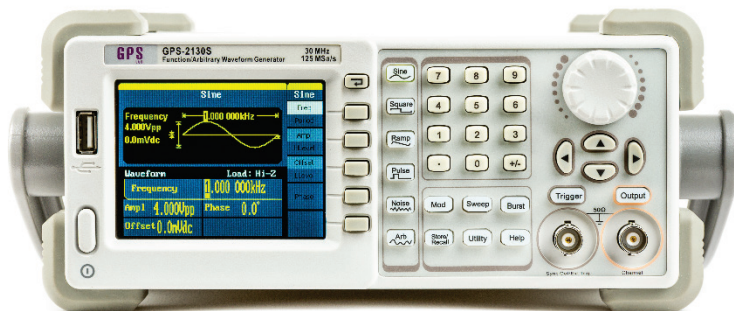


Figure 1 Model shown GPS-2130S

## Key Features

- Advanced DDS technology with 125MSa/s sampling rate and 14bit vertical resolution
- Configurable with powerful arbitrary waveform editing software EasyWave (included)
- Innovative EasyPulse© technology
- Standard interfaces: USB Device, USB Host, support U-Disk storage
- Can be seamlessly connected to any GPS Ltd Digital Storage Oscilloscope
- Supports remote control

## Ideal for

- Analog sensors
- Simulating environmental signals
- Circuit function tests
- IC tests
- Research and training

www.gpslimited.com/2100S  
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 Email: info@gpslimited.com

## Technical Specifications

Model	GPS-2105S	GPS-2110S	GPS-2130S
Maximum output frequency	5 MHz	10 MHz	30 MHz
Output channels	1		
Sampling rate	125 MSa/s		
Wave length	16 kPts		
Frequency resolution	1 $\mu$ Hz		
Vertical resolution	14-bit		
Waveform	Sine, Square, Ramp, Pulse, Gaussian white noise; Arbitrary waveform: 46 types of built-in arbitrary waveforms		
Sine wave	1 $\mu$ Hz ~ 5 MHz	1 $\mu$ Hz ~ 10 MHz	1 $\mu$ Hz ~30 MHz
Square wave	1 $\mu$ Hz ~ 5 MHz	1 $\mu$ Hz ~ 10 MHz	1 $\mu$ Hz ~10 MHz
Pulse	500 $\mu$ Hz ~ 5 MHz	500 $\mu$ Hz ~ 5 MHz	500 $\mu$ Hz ~5 MHz
Ramp/Triangular	1 $\mu$ Hz ~ 300 KHz	1 $\mu$ Hz ~ 300 KHz	1 $\mu$ Hz ~ 300 KHz
Gaussian white noise	>5 MHz bandwidth (-3 dB)	>10 MHz bandwidth (-3 dB)	>30 MHz bandwidth (-3dB)
Arbitrary waveform	1 $\mu$ Hz ~ 5 MHz	1 $\mu$ Hz ~ 5 MHz	1 $\mu$ Hz ~ 5 MHz
Modulation function	AM, FM, PM, DSB-AM, FSK, ASK, PWM, Sweep, Burst		
Standard configuration	USB Host & USB Device		
Amplitude (high impedance)	4 mVpp~20 Vpp ( $\leq$ 10 MHz), 4 mVpp~10 Vpp (>10 MHz)		

### Standard Accessories

EasyWave© software  
 USB cable  
 220V AC EU power cord  
 (unit is 220V and 110V selectable)  
 Quick-start guide

### Input Voltage

100~240 VACRMS, 45~66Hz, CATII  
 100~127 VACRMS, 45~440Hz, CATII

### Languages

English, French, Japanese, Korean, German, Russian, Italian, Portuguese

### EMC

2004/108/EC Directive  
 Applicable standards EN 61326-1:2006  
 EN 61000-3-2:2006 + A2:2009  
 EN 61000-3-3:2008

### Safety

2006/95/EC Low Voltage Directive  
 EN 61010-1:2010

### TUV

UL 61010-1:2012  
 CAN/CSA-C22.2 NO.61010-1:2012

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-2105S	5MHz, 1 channel, function/arbitrary waveform generator	200115
GPS-2110S	10MHz, 1 channel, function/arbitrary waveform generator	201010
GPS-2130S	30MHz, 1 channel, function/arbitrary waveform generator	203130

### Dimensions

229 x 105 x 281mm / 9 x 4 x 11" (w x d x h) approx.

### Mass

2.6kg/5.7lbs 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](http://www.gpslimited.com/register-product)  
 Service and calibration available.

Please contact for more information

[www.gpslimited.com/21005](http://www.gpslimited.com/21005)  
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