



GPS

2100 series

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

The GPS-2100 Dual Channel Function/Arbitrary Waveform Generator is capable of generating stable and precise sine, square, triangle, pulse, and arbitrary waveforms. With an easy-to-read colour display and an intuitive user interface with numeric keypad, this instrument offers 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, 125 MSa/s arbitrary waveform generator. Easily create custom arbitrary waveforms using the included waveform editing software or output any of the 46 built-in predefined arbitrary waveforms. Up to 10 user-defined 16 kPts arbitrary waveforms can be saved to the instrument. With its dual-channel output. Both channels are equipped with the same characteristics to fit dual-signal applications such as differential or IQ signalling. Users can also use the included editing software, EasyWave, to edit the waveform and then send it to the 2100 unit directly, or save the waveform into the flash drive and then transfer it over.



Figure 1 Model shown GPS-2110

Key Features

- Advanced DDS technology with 125MSa/s sampling rate and 14bit vertical resolution
- Configurable with powerful arbitrary waveform editing software EasyWave (included)
- Abundant input/output: waveform output, synchronous signal output, External modulation source input, 10MHz clock input, external trigger input, internal trigger output etc
- Standard interfaces: USB Device, USB Host,
- 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

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Technical Specifications

Model	GPS-2110	GPS-2125	GPS-2150
Maximum output frequency	10 MHz	25 MHz	50 MHz
Output channels	2		
Sampling rate	125 MSa/s		
Wave length	16 kPts		
Frequency resolution	1 μ 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 μ Hz ~ 10 MHz	1 μ Hz ~ 25 MHz	1 μ Hz ~50 MHz
Square wave	1 μ Hz ~ 10 MHz	1 μ Hz ~ 25 MHz	1 μ Hz ~25 MHz
Pulse	500 μ Hz ~ 5 MHz	500 μ Hz ~ 5 MHz	500 μ Hz ~5 MHz
Ramp/Triangular	1 μ Hz ~ 300 kHz	1 μ Hz ~ 300 kHz	1 μ Hz ~ 300 kHz
Gaussian white noise	>10 MHz bandwidth (-3 dB)	>25 MHz bandwidth (-3dB)	>50 MHz bandwidth (-3dB)
Arbitrary waveform	1 μ Hz ~ 5 MHz	1 μ Hz ~ 5 MHz	1 μ 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, 50/60Hz, CATII
 100~127 VACRMS, 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-2110	10MHz, dual channel, function/arbitrary waveform generator	204110
GPS-2125	25MHz, dual channel, function/arbitrary waveform generator	204025
GPS-2150	50MHz, dual channel, function/arbitrary waveform generator	204550

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
 Service and calibration available.

Please contact for more information

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