



GPS

# 2100+

A dual channel arbitrary function generator that impressively provides a variety of accurate and clean signals to support a wide range of applications

With the integrated EasyPulse® technology technique, many common weaknesses of the current generators on the market are resolved with regards to pulse waveforms. EasyPulse® overcomes the one-clock jitter issue to produce the most complete accurate display. The generator also integrates special circuitry for square waveforms for more precise rise/fall times at its highest frequencies. 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, 150 MSa/s arbitrary waveform generator. CH1 and CH2 outputs can both be varied from 0 to 10 Vpp into 50 ohms (up to 20 Vpp into open circuit).



Figure 1 Model shown GPS-2160+

## Key Features

- Advanced DDS technology with 150MSa/s sampling rate and 14bit vertical resolution
- Innovative EasyPulse® technology
- Rich modulation features
- Sweep/Burst function
- Harmonics generator function
- Waveform combining function
- High precision frequency counter
- 4.3" colour TFT display, (480 x 272 pixels)

## Ideal for

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

## Technical Specifications

Model	GPS-2130+	GPS-2160+
Maximum output frequency	30 MHz	60 MHz
Output channels	2	
Sampling rate	150 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: 196 types of built-in arbitrary waveforms	
Sine wave	1 $\mu$ Hz ~ 60 MHz	
Square wave	1 $\mu$ Hz ~ 60 MHz	
Pulse	1 $\mu$ Hz ~ 12.5 MHz	
Ramp/Triangular	1 $\mu$ Hz ~ 500 kHz	
Gaussian white noise	>60 MHz	
Arbitrary waveform	1 $\mu$ Hz ~ 6 MHz	
Modulation function	AM, FM, PM, FSK, ASK, PWM, Sweep, Burst	
Standard configuration	USB Host, USB Device, LAN	
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  
 Calibration certificate

### LVD

IEC 61010-1:2010

### EMC

EN61326-1:2013

### Input Voltage

100 - 240 Vrms ( $\pm$  10%), 50 / 60 Hz  
 100 - 120 Vrms ( $\pm$  10%), 400 Hz

### Languages

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

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-2130+	30MHz, 2 channels, function/arbitrary waveform generator w/ LAN	201303
GPS-2160+	60MHz, 2 channels, function/arbitrary waveform generator w/ LAN	201600

### Dimensions

260 x 107 x 295mm / 10 x 4 x 12" (w x d x h) approx.

### Mass

3.4kg/7.5lbs approx.

### Operating:

0°C ~ 40°C  
 Below +30°C:  $\leq$ 90% relative humidity  
 +30°C ~ +40°C:  $\leq$ 50% relative humidity  
 $\leq$ 3048m

### 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/2100plus](http://www.gpslimited.com/2100plus)  
 For all enquiries, Tel: +44 (0) 208 964 3600  
 Email: [info@gpslimited.com](mailto:info@gpslimited.com)