



GPS

# SA3000XX

Compact and lightweight analysers with premium performance for portable applications

Spectrum Analysers measure the magnitude of input signals against frequency over the instrument's full frequency range. This helps when characterizing wireless transmitters or other electronic devices, determining dominant frequency, power, distortion, harmonics, bandwidth, and other spectral components of a signal that are not easily seen in time domain displays. The analysers focus on general-purpose electronic test and measurement field with the implementation of quality strategy. The GPS-SA3000XX has a new industrial design, elegant appearance, and a sophisticated new user interface after repeated optimisation. The menu navigation is very intuitive and all functions and parameters are easy to locate thanks to the graphical interface. The use of digital IF (intermediate frequency) technology guarantees reliability and performance to meet the most demanding RF applications.

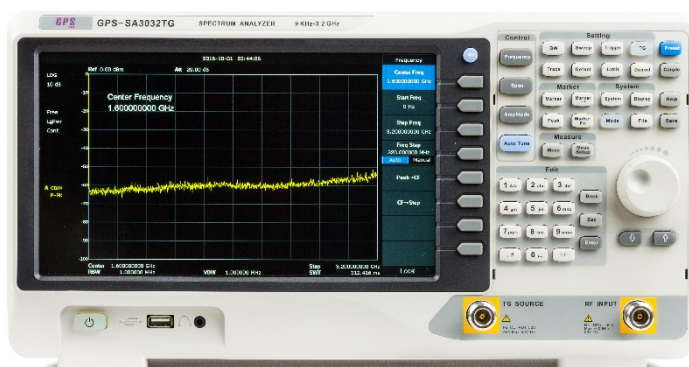


Figure 1 Model shown GPS-SA3032TG including Tracking Generator

## Key Features

- All-Digital IF Technology
- Frequency Range from 9 kHz up to 3.2 GHz
- Low phase noise
- Excellent amplitude accuracy
- Standard Preamplifier
- Support 4 tracers and cursors independently
- Up to 3.2 GHz Tracking Generator Kit (optional)
- 10.1-inch WVGA (1024x600) Display

## Ideal for

- Manufacture and maintenance of microwave communications links
- Telecommunications equipment
- Cable TV systems and broadcast equipment
- Mobile communication systems
- EMI and EMC compliance testing
- Component testing
- Signal surveillance

## Technical Specifications

Model	GPS-SA3021XX	GPS-SA3032XX
Frequency Range	9kHz ~ 2.1 GHz	9kHz ~ 3.2 GHz
Resolution Bandwidth	10 Hz~1 MHz, in 1-3-10 sequence	
DANL	-161 dBm/Hz, Normalize to 1 Hz (typ.)	
Phase Noise	-98 dBc/Hz@1 GHz, 10 kHz offset	
Amplitude Precision	< 0.7 dB	
Trigger Type	Edge, Slope, Pulse width, Window, Runt, Interval, Dropout, Pattern, Video	

### Standard Accessories

SA3000XX software  
 USB cable  
 Product certificate  
 Calibration certificate  
 CD including manual and quick-start guide

### Interface

Host: USB-A 2.0 +  
 Device: USB-B 2.0  
 LAN: LAN (VXI11), 10/100 Base, RJ-45

### Storage

Internal (Flash) 256 MByte,  
 External (USB storage device) 32 GByte

### Languages

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

### Front Panel RF Input

50Ω, N-female

### Front panel TG output

50Ω, N-female

### 10 MHz reference output

10 MHz, >0 dBm, 50 Ω, BNC-female

### 10 MHz reference input

10 MHz, -5dBm~+10dBm, 50 Ω, BNC-female

### External Trigger input

1 kΩ, 5V TTL, BNC-female

### EMC

EN 61326-1:2013

### Safety

EN 61010-1:2010

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-SA3021XX	Spectrum Analyser 9kHz~2.1GHz	630219
GPS-SA3021TG	Spectrum Analyser 9kHz~2.1GHz with Tracking Generator	650508
GPS-SA3032XX	Spectrum Analyser 9kHz~3.2GHz	630320
GPS-SA3032TG	Spectrum Analyser 9kHz~3.2GHz with Tracking Generator	650530
EMI-SA3000	EMI measurement kit	900109
AMK-SA3000	Advanced measurement kit	900382
REFL-SSA3000	Reflect measurement kit	900183
TG-SA3000	Tracking Generator Kit	900355
BAG-SCC	Soft carrying bag	900362

### Dimensions

393 x 207 x 116mm / 15 x 8 x 5" (w x d x h) approx.

### Mass

3.3kg/7.2lbs approx.

### Operating:

0°C ~ 50°C  
 0°C to 30°C, ≤95% relative humidity  
 30°C to 50°C, ≤75% relative humidity

### 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/SA3000XX](http://www.gpslimited.com/SA3000XX)  
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