Educating tomorrow’s RF technicians and engineers — but restricted by your capital budget?

Looking for basic RF signal generators and spectrum analyzers for your students’ labs — but hesitant as to which ones to choose?

Thinking of improving your class with additional live demonstrations and hands-on practice for your students?

Then meet those needs with a set of basic RF instruments like the Keysight Technologies, Inc. low cost N9310A signal generator and N9320B spectrum analyzer. They help you to develop more stimulating and effective demonstrations and hands-on labs, yet with affordable prices that help you stay within your budget.

In your classroom, research lab, or teaching lab, Keysight’s low cost RF signal generator and spectrum analyzer are your preferred RF teaching tools.

Keysight Technologies has optimized the N9310A RF signal generator and N9320B RF spectrum analyzer as a pair of complementary educational tools. We believe that their professional performance, ease-of-use and affordable price will satisfy the requirements of you and your department heads.

This pair of low cost, general purpose RF instruments have been rapidly and continuously adopted by many universities and institutes throughout the world, for building up their research labs, modernizing their teaching labs, or enhancing live classroom demonstrations. When you discuss the concepts of RF signals in the frequency domain to your students, explain how a wireless communication system works, or prepare hands-on labs for student practice, the N9310A and N9320B are your ideal RF educational tools. More important, you can trust Keysight and its high standard of technical support services, when you have instruments needs.

Product Overview

N9310A RF signal generator
It covers a frequency range from 9 kHz to 3 GHz, and can output CW (continuous wave) signals, step, or list swept CW (by frequency/amplitude/both), and AM, FM, FM, and pulse modulations. It also provides a 20 Hz to 80 kHz low frequency output and an optional IQ modulator. For more details, please visit: www.keysight.com/find/n9310a

N9320B RF spectrum analyzer
It covers a frequency range from 9 kHz to 3 GHz, and is able to display four traces and 12 markers for easy analysis. It also provides a one-button power measurement suite and an optional tracking generator. For more details, please visit: www.keysight.com/find/n9320b
Built-in educational performance

To ensure meeting your needs, Keysight has put a number of educational elements into the product design for the N9310A and N9320B.

- Intuitive user interface eases student learning
- Multi-language user interface erases the language barrier
- USB memory stick support makes file or data transfer easy
- SCPI (Standard Commands for Programmable Instrumentation) support provides an industry standard “English-like” syntax
- High resolution TFT color screen brings you bright and clear display visibility
- Optional rubber handle and bumpers provide rugged protection and convenience for carrying between labs
- Identical bench top form factor and compact size streamlines the appearance of your lab

Keysight low cost series RF instruments
Professional and cost effective for you

Learning how to use RF instrument and understanding how RF signal interact are fundamentals for electronics studies. N9310A and N9320B are the basic tools. They bring signal interactions to light for students and help explain signal related processes.

Now you have the opportunity to put the keen price/performance combination of Keysight RF instruments into your class or lab stations for your students.

**N9310A ordering information**

<table>
<thead>
<tr>
<th>N9310A</th>
<th>RF signal generator</th>
</tr>
</thead>
<tbody>
<tr>
<td>N9310A-001</td>
<td>Analog IQ modulator</td>
</tr>
<tr>
<td>N9310A-TCM</td>
<td>Rack mount kit</td>
</tr>
<tr>
<td>N9310A-TTC</td>
<td>Hard transit case</td>
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<tr>
<td>N9310A-THB</td>
<td>Handle and bumper</td>
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<tr>
<td>N9310A-TPA</td>
<td>External attenuator</td>
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**N9320B ordering information**

<table>
<thead>
<tr>
<th>N9320B</th>
<th>RF spectrum analyzer</th>
</tr>
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<tbody>
<tr>
<td>N9320B-PA3</td>
<td>Preamplifier, 3 GHz</td>
</tr>
<tr>
<td>N9320B-1CM</td>
<td>Rack mount kit</td>
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<tr>
<td>N9320B-1TC</td>
<td>Hard transit case</td>
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<tr>
<td>N9320B-1HB</td>
<td>Handle and bumper</td>
</tr>
<tr>
<td>N9320B-TG3</td>
<td>Tracking generator, 3 GHz</td>
</tr>
</tbody>
</table>

**Typical configuration**

- N9310A
- N9310A-001
- N9320B
- N9320B-TG3

www.keysight.com/find/n9310a
www.keysight.com/find/n9320b