

Keysight Technologies

Top 5 Reasons Why FieldFox is the Ideal RF and Microwave Teaching Tool

Your challenge

When education budgets are reduced, you're required to look for creative solutions to teach RF and microwave theory. While some benchtop instruments have evolved to meet the needs of undergraduate laboratories and classes, this approach is still expensive and requires multiple instruments in each learning environment.

Your solution

FieldFox is a portable RF and microwave analyzer that incorporates the same measurement science as many of the Keysight Technologies, Inc. high-performance benchtop instruments. The FieldFox combination analyzers include a spectrum analyzer, network analyzer, cable and antenna analyzer, and more.

Using FieldFox, you can demonstrate a wide range of RF and microwave concepts such as transmission line theory, AM and FM modulation, and voltage and power measurements, without requiring expensive and heavy benchtop equipment. This means you can easily carry FieldFox around the lab or classroom to get Keysight-quality microwave measurements.



FieldFox redefines RF education.

1. Ten-instruments-in-one to save you money

FieldFox analyzers integrate the microwave capabilities of ten instruments into a single, compact and lightweight instrument. They also give you – and your budget – more flexibility: configure an instrument with the features you need today and add others in the future, by upgrading via a software license key.



1. Spectrum analyzer
2. Vector network analyzer
3. Interference analyzer
4. Signal generator
5. Cable & antenna analyzer
6. Vector voltmeter
7. Frequency counter
8. Power meter
9. DC power supply
10. GPS receiver



2. Easy to share and carry from class to lab

FieldFox is a handheld, battery-operated instrument, so you can easily move it from the lab to the classroom, or even outdoors, to test communication links/RF interference or cable performance on real systems.

Portable: Compact, light weight 3.0 kg or 6.6 lbs package
Long battery life 3 1/2 hours

Rugged: Withstands 4-foot drop on concrete surface
Water-resistant chassis



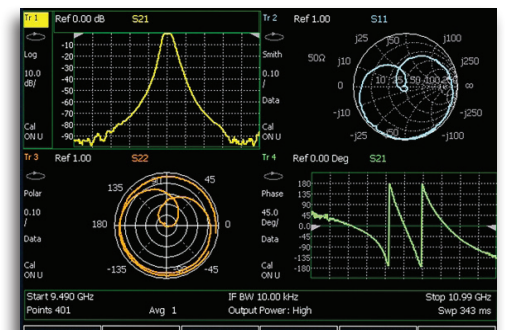
3. Simple teaching tool with remote control

You can remotely control FieldFox using an iOS device such as iPhone or iPad. The Remote Viewer iOS app emulates the front panel of FieldFox, so you make measurements remotely and demonstrate easily using your iOS device.



4. Complement RF and microwave theory with demos

Impedance matching, S-parameters, and spectrum analysis are all topics that are covered in theory. Using FieldFox analyzers students can get hands-on experience, in the laboratory setting or classroom, to complement the theoretical concepts of transmission lines and propagation.



5. Save time with ready-made lesson plans and teaching aids

Time is limited, and you have a busy schedule. For a complete course, check out Keysight's RF Education Lab Suite. Each solution comes with a training kit, instructor's guide, and lab worksheets. Learn more: www.keysight.com/find/teach

The University of Washington's Department of Electrical Engineering unveiled an RF and microwave teaching laboratory specifically developed around FieldFox. Learn more: www.keysight.com/find/FieldFoxUW



Download application notes, watch webcasts and videos

Learn more about power measurements, interference analysis, cable and antenna test, and more:
www.keysight.com/find/fieldfoxapps
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