

Keysight Technologies FieldFox Remote Viewer

Application Brief



Keysight Remote Viewer setup instructions

The FieldFox remote viewer is a FREE iOS application which allows you to view a Keysight Technologies, Inc. FieldFox analyzer from your iOS device. To control and view the FieldFox from your iOS device, Option 030 must be installed on the FieldFox.

The FieldFox remote viewer must be installed on an iPad, iPhone, or iPod Touch. These instructions are written for an iPad.

This document makes the following assumptions:

- You should know your way around your iOS device. This includes downloading and installing apps. To do this, you need an iTunes account and access to the iTunes App Store.
- You should be familiar with the FieldFox. If necessary, you can download the appropriate FieldFox User's Guide for detailed operation information at: www.keysight.com/find/fieldfoxsupport
- This application brief shows three configurations for connecting the FieldFox to the iOS device. The first two involve a 'network infrastructure'. You should have IT support available when working with these configurations. When 'network infrastructure' is involved, it is assumed that a network firewall will exist. In this situation both the FieldFox and the iOS device must be "inside" the firewall. It may be possible to operate in a public domain outside of firewalls, but this is not a typical configuration.

Step 1: Install the FieldFox application on your iPad. The iOS version must be 5.1 or higher. In the iTunes App Store, search for "FieldFox". For instructions, see Apps Store in the iPad User Guide. You may access the User Guide using the default bookmark provided in the Safari web browser on the iPad.

Step 2: Review the following three configurations and decide which one applies to your situation. Detailed instructions are provided in the remainder of this document.

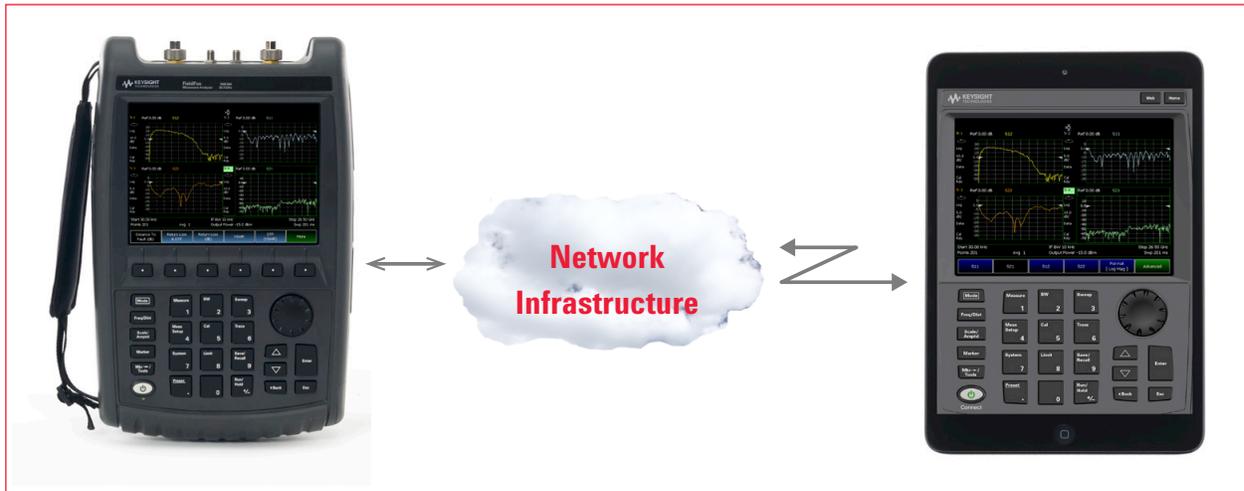
Configuration 1 - FieldFox connected to LAN; iOS device connected via WiFi

Configuration 2 - FieldFox connected to LAN; iOS device connected via cellular data (3G/4G/LTE)

Configuration 3 - FieldFox connected to a portable wireless router; iOS device connected via WiFi.
No network infrastructure is required.

Configuration 1: FieldFox connected to LAN; iOS device connected to WiFi

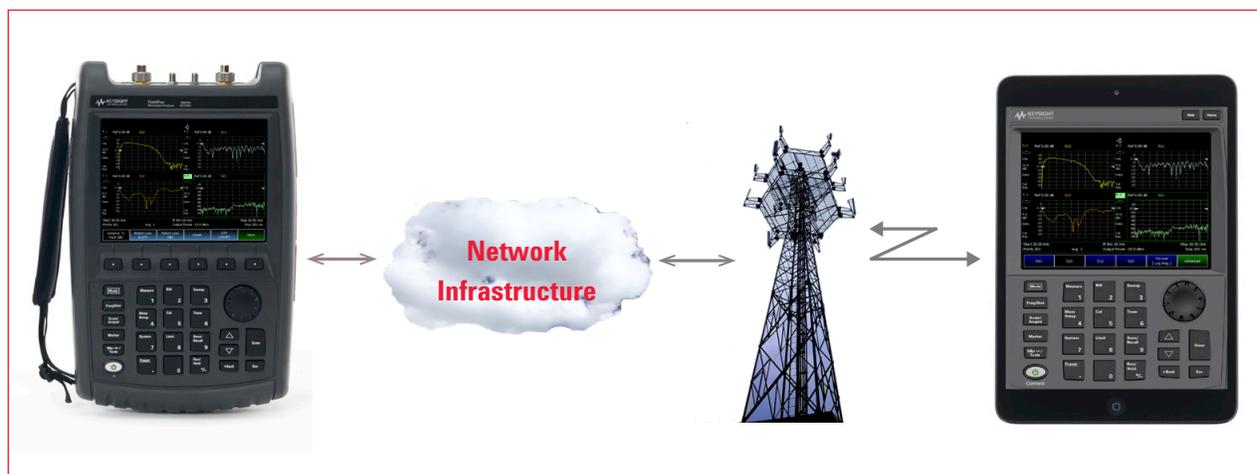
- FieldFox mobility: limited by hardwired LAN connection to Network Infrastructure
- iPad mobility: limited by WiFi connectivity
- Both devices typically must be within network firewall



1. Using a LAN cable, connect the FieldFox to your network infrastructure.
2. On the FieldFox, press **System**, then **System Configuration**, then **More**, then **LAN**.
3. Note the **Current IP Address** assigned to the FieldFox. If a Current IP Address is not visible, then:
 - a. Set **Obtain IP to DHCP**.
 - b. Scroll down to **Apply Settings**, click **Edit**, then select **Now**. Wait for the IP address to be updated.
 - c. Note the **Current IP Address** assigned to the FieldFox.
4. Connect your iPad to the WiFi on your network infrastructure. On the iPad, go to **Settings**, then **Joining a Wi-Fi Network**. For further instructions, see the iPad User Guide.
5. On the iPad, touch the **FieldFox app**.
6. Touch the **Instrument** button in the upper-right corner.
7. Touch the **Connect** button in the lower-left corner.
8. In **instr name**, enter an alias name for your instrument. Any text string may be used.
9. In **ip/hostname**, enter the IP address of the FieldFox noted in Step 3.
10. Touch **Connect**

Configuration 2: FieldFox connected to LAN; iOS device connected to cellular data (3G/4G/LTE)

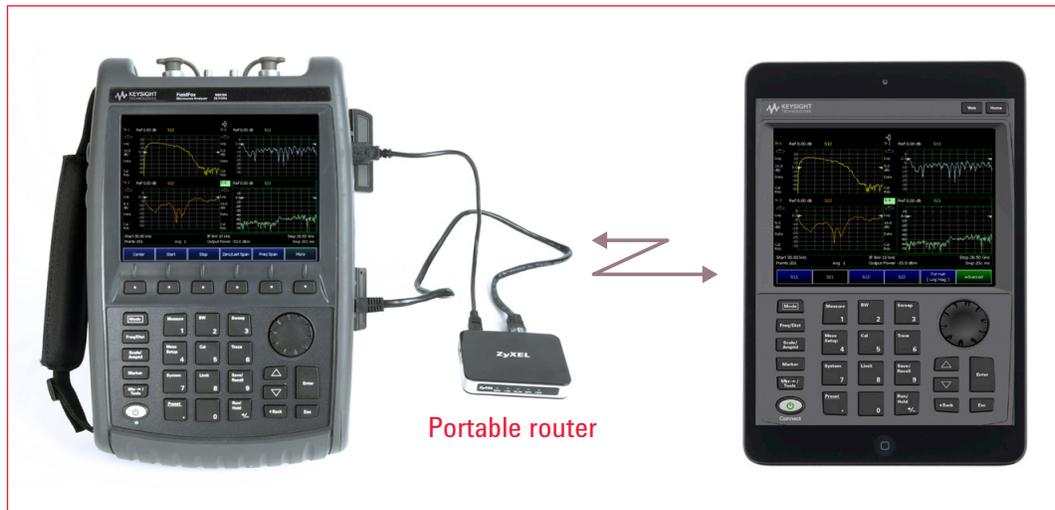
- FieldFox mobility: limited by hardwired LAN connection to Network Infrastructure
- iPad mobility: wide mobility, limited only by access to cellular data. The iPad requires an option for cellular data and charges for cellular data may be incurred.
- Both devices typically must be within network firewall



1. Using a LAN cable, connect the FieldFox to your network infrastructure.
2. On the FieldFox, press **System**, then **System Configuration**, then **More**, then **LAN**.
3. Note the **Current IP Address** assigned to the FieldFox. If a Current IP Address is not visible, then:
 - a. Set **Obtain IP** to **DHCP**.
 - b. Scroll down to **Apply Settings**, click **Edit**, then select **Now**.
Wait for the IP address to be updated.
 - c. Note the **Current IP Address** assigned to the FieldFox.
4. Connect your iPad to your cellular data provider. Go to **Settings**, then **Cellular Data**. This requires cellular data capability on the iPad and appropriate connectivity through your network infrastructure.
5. On the iPad, touch the **FieldFox app**.
6. Touch the **Instrument** button in the upper-right corner.
7. Touch the **Connect** button in the lower-left corner.
8. In **instr name**, enter an alias name for your instrument. Any text string may be used.
9. In **ip/hostname**, enter the IP address of the FieldFox noted in Step 3.
10. Touch **Connect**

Configuration 3: FieldFox connected to a portable wireless router; iOS device connected to the same WiFi. No network infrastructure.

- The portable wireless router is provided by you
- FieldFox mobility: no significant restrictions when battery operated
- iPad mobility: limited by the range of portable router



Note: The following instructions apply specifically to the ZyXEL Travel Router model MWR102. Instructions for other portable routers will vary.

1. On the MWR102, set the switch to the "Router" position.
2. Connect the USB cable between the FieldFox and the MWR102.
3. Connect a LAN cable between the FieldFox and the LAN connector on the MWR102.
4. On the FieldFox, press **System**, then **System Configuration**, then **More**, then **LAN**.
5. Note the **Current IP Address** assigned to the FieldFox. If a Current IP Address is not visible, then:
 - a. Set **Obtain IP** to **DHCP**.
 - b. Scroll down to **Apply Settings**, click **Edit**, then select **Now**.
Wait for the IP address to be updated.
 - c. Note the **Current IP Address** assigned to the FieldFox.
6. Note the wireless password for the portable router. On the MWR102, the default password is on the label.
7. On the iPad connect to the WiFi network of the MWR102. Go to **Settings**, then **Joining a Wi-Fi Network**. Capitals are significant when entering passwords. For further instructions, see the iPad User Guide.
8. On the iPad, touch the **FieldFox app**.
9. Touch the **Instrument** button in the upper-right corner.
10. Touch the **Connect** button in the lower-left corner.
11. In **instr name**, enter an alias name for your instrument. Any text string may be used.
12. In **ip/hostname**, enter the IP address of the FieldFox noted in Step 5.
13. Touch **Connect**

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