

EMViewer

NFP Kit - Live Tracking Setup Guide

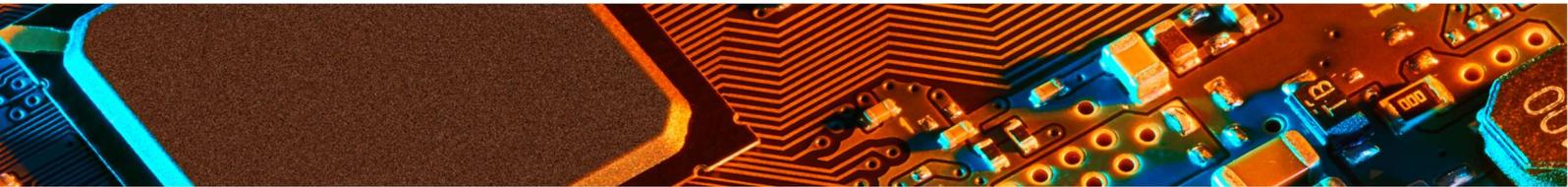
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Warranty

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Safety Notices

Caution

A CAUTION notice denotes a hazard. It calls attention to operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

Warning

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

Components and Connection Overview

Components Supplied with the NFP Kit

1	Handheld Probe Set	<ul style="list-style-type: none">• Handheld Probes Handle• NFPE10A Full Range E Field Probe• NFPH10A 10MHz-350MHz H Field Probe• NFPH20A 300MHz-3.5GHz H Field Probe• NFPH30A 3GHz-18GHz H Field Probe	
2	Camera	USB Mini Camera, 5MP, 5-50mm Varifocal Lens, 10X Optical Zoom	
3	Support Arm	11 Inch Adjustable Support Arm with Clamp	

Required Components (Supplied by user)

1. *Spectrum Analyser*: It must include the necessary options to work with EMViewer ([see Supported Spectrum Analysers](#)).
2. *PC*: Including a LAN or USB 2.0/3.0 port for the spectrum analyser and a USB port for the webcam. It must be running Windows.

Installation and Hardware Setup

1. Install latest version of Keysight IO

Click [here](#) to open the website to download the latest version. On the website click on the Download button and follow the steps.

2. Install the EMViewer Primum application

Install the EMScanner software by clicking on the Setup application icon. The application must always be installed on the C: drive.

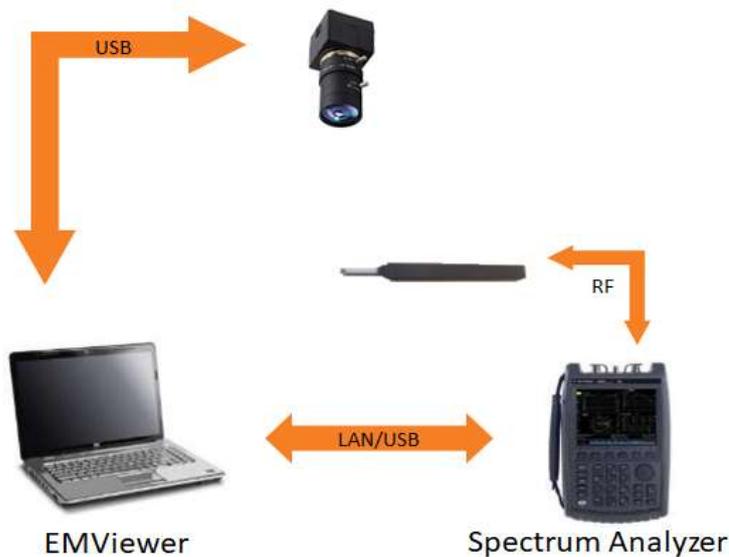
The EMViewer software can be purchased at www.yictechnologies.com

3. Verify that your camera works correctly.

Windows has a built-in camera application you can use for this. Type Camera in the Windows search box.

4. Connect PC, spectrum analyser and probe as per the diagram below.

If you are using Ethernet between the PC and the spectrum analyser, use a crossover Ethernet cable. If the spectrum analyser has multiple trigger ports, always connect to Trigger 1 IN.



Connection Diagram

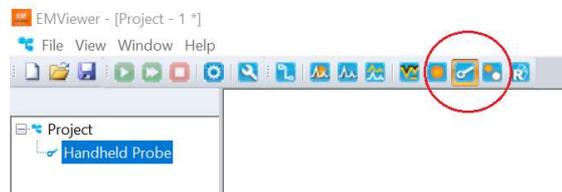
Taking Measurements

The EMViewer software analyse the camera video stream and identify the probe type, position and its orientation based on the marker printed on the tip. For best performance, keep this marker visible to the camera.

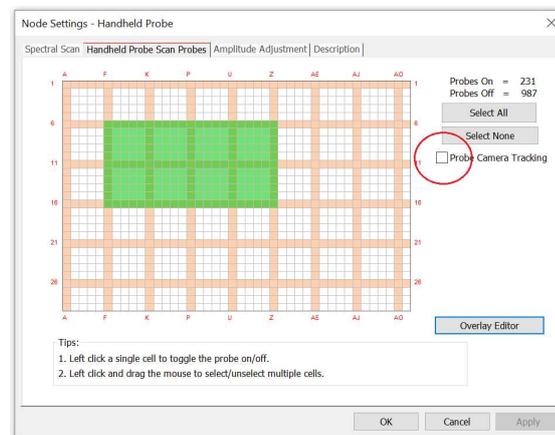
Correction can be turned on/off from the

Open the EMViewer and add new node to the project.

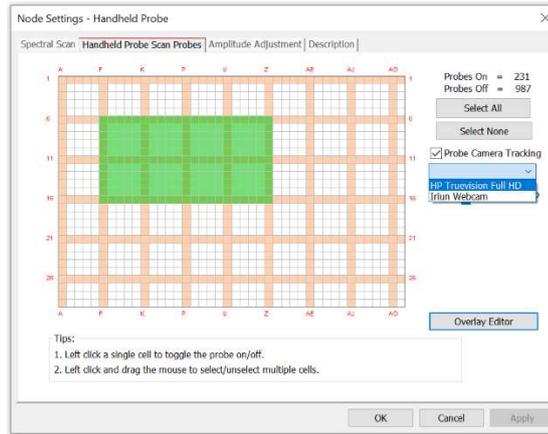
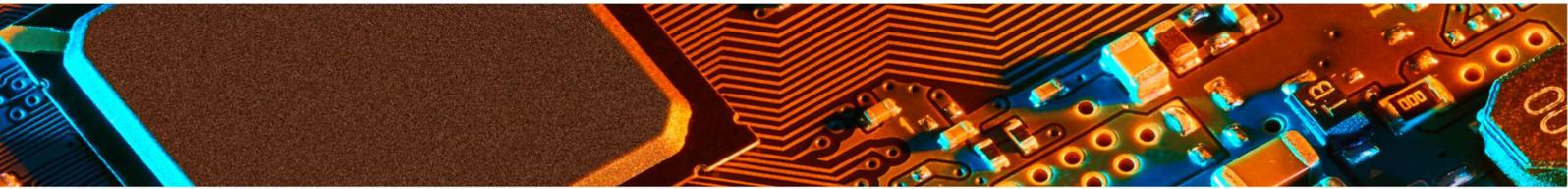
Click to Add Handheld Probe node:



In the Setting Dialog Box, check the `Probe Camera Tracking` check box:



Selected the desired Camera and click OK:



Live Tracking is now active.

Technical Support

To help us provide fast and seamless technical support, kindly gather the following information, and contact Technical Support as instructed further below:

1. Make and serial number of your probe.
2. EMViewer software version
3. Windows OS information
4. Keysight IO version
5. Spectrum analyser model and firmware level
6. Information View data saved as a text file
7. Description of the problem including screen shots and videos

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