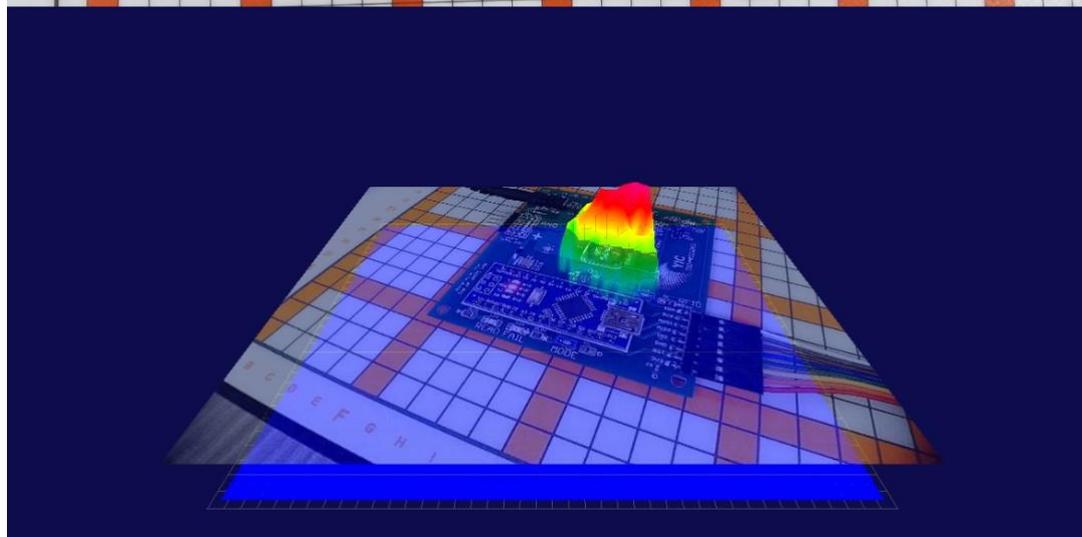
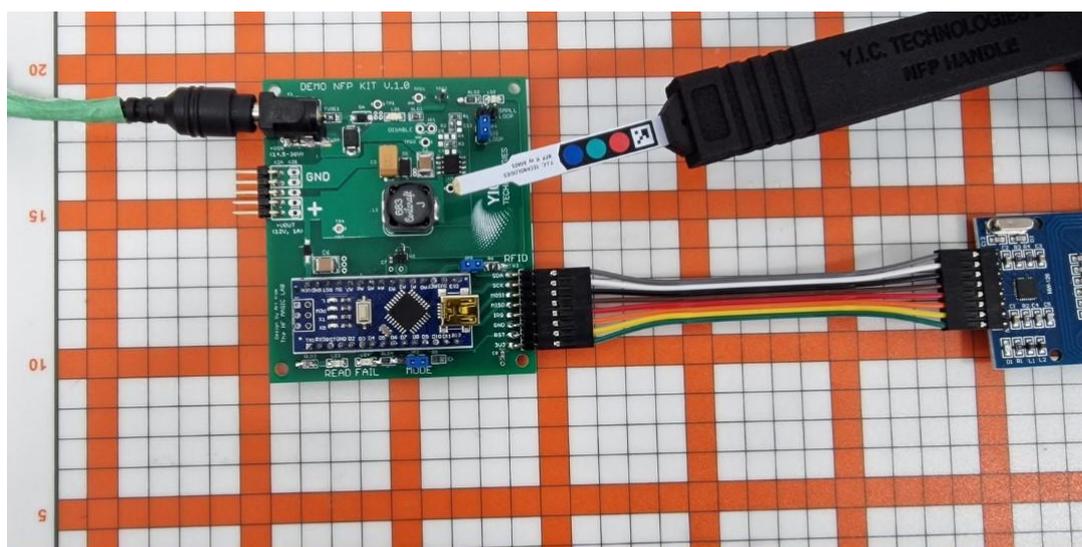


NFP Kit

Setup Guide





Disclaimer

Warranty

The material contained within this user manual is provided as is and is subject to being changed, without notice, in future editions. Further to the maximum extent permitted by applicable law, *Y.I.C. Technologies* disclaims all warranties, either expressed or implied, regarding this user manual and any information contained herein, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. *Y.I.C. Technologies* shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or any information contained herein. Should *Y.I.C. Technologies* and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall take precedence over those stated herein.

Safety Notices

Caution

A **CAUTION** notice denotes a hazard. It calls attention to operating procedure, practice, or similar 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 similar 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

Box Contents

NFPKit

Camera	The camera provided can be manually adjusted to compensate for lighting conditions in your lab.	
Camera Extension Arm	Holds the camera in place from another surface.	
Probe Handle	The probe handle connects the NFPs to the RF out	
NFP Hxy 10A02	10 MHz – 300 MHz	
NFP Hxy 20A02	100 MHz – 1.4 GHz	
NFP Hz 40A02	1 GHz – 14 GHz	
NFP Hxy 60A01	1 GHz – 14 GHz	
NFP E 00A02	1.6 GHz – 18 GHz	

User-Supplied Components

1. **Spectrum Analyzer:** This device measures the radio frequency (RF) signal received from the scanner - generated by the very-near-field emissions of an adjacent activated PCB (Printed Circuit Board) - and it outputs the data to the PC.
2. **PC:** A PC running Windows 11 or Windows 10 on an x86-64 processor is required. It is recommended the PC also meet the minimum system requirements to prevent graphical bugs, scanning slowdown and crashes.

Minimum System Requirements

Operating System: Windows 11 / Windows 10 (latest update)
CPU: 1 GHz or faster with two or more cores, on a compatible 64-bit processor
Memory: 8 GB or more
Storage: 200 MB for installation, and 1 GB for project saves
Graphics card: Compatible with OpenGL 4.2

3

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Sentinel House, Ancells Business Park, Harvest Crescent, Fleet, Hampshire, GU51 2UZ, UK

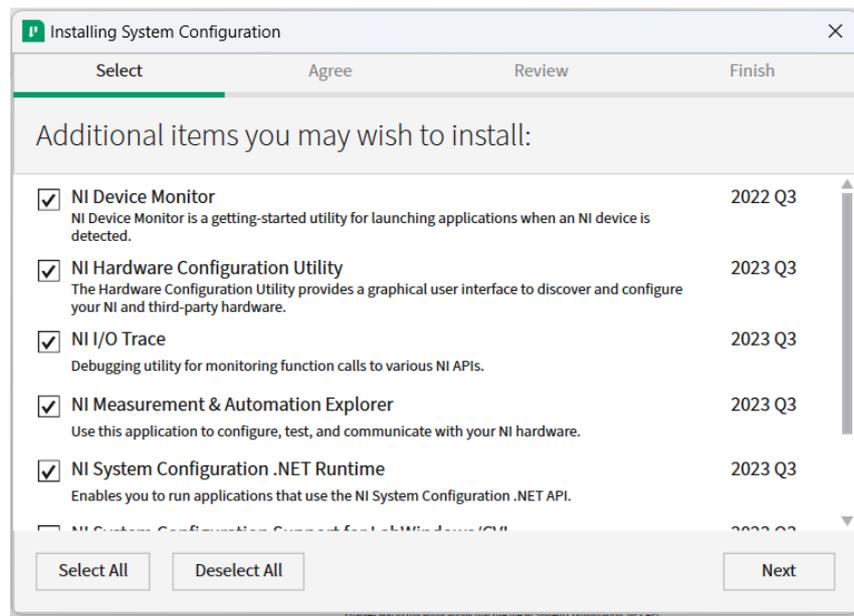
Installation and Hardware Setup

Please refer closely to the following information regarding the full installation process.

1. **Install communication software for the spectrum analyzer:** You must determine which software to install from the manufacturer's website. For SCPI controlled spectrum analyzers, any software which installs NI-VISA can be used. This includes NI MAX, Keysight Connection Expert and RIGOL UltraSigma. It is recommended to install **one** of the following:

a.  **NI-MAX**

Recommended for most SCPI-controlled spectrum analyzers. Download from the National Instruments website: www.ni.com. When "Additional items you may wish to install" is shown, you must have **at least** NI Measurement & Automation Explorer selected. Other items do not affect the EMViewer runtime and can be enabled at the user's discretion.



b.  **Keysight Connection Expert**

Recommended to use with Keysight spectrum analyzers.

Go to www.keysight.com and search for 'IO Libraries Suite', or [click here](#) to open the website to download the latest version. On the website, click on the 'Download' button and follow the steps as instructed.



c.  **RIGOL UltraSigma**

Recommended to use with RIGOL spectrum analyzers. Some RIGOL analyzers (such as the RSA5000) require additional downloads to use with this software. Please refer to the user manual for your spectrum analyzer.

2. Install the EMViewer software application:

You can download the **EMViewer** software by going to the following linked page: <https://yictechnologies.com/emviewer/>



Install the **EMViewer** software by running the downloaded setup application. The application should be installed on the C: drive.

A license is required to use the **EMViewer** software. All licenses are provided by YIC Technologies. To obtain your license file, please email your PC's unique hash code (found in the menu Help->About in the **EMViewer** software) to support@yictechnologies.com.

3. Setup the kit:

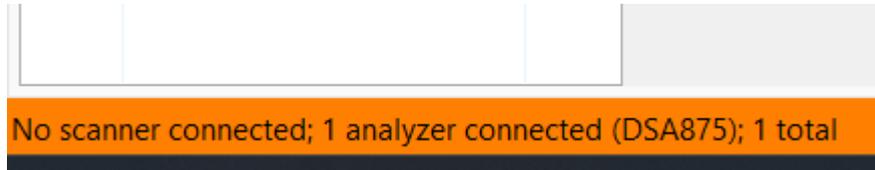
Setup your PC, analyzer and camera as described in the relevant diagram below.



Establish a Connection

Spectrum Analyzer

Once connected and is visible in your analyzer control software (e.g., NI-MAX or Keysight Connection Expert) it will automatically be detected by the EMViewer software:



For information on how to use the NFP kit, please refer to the “Near Field Probe Kit” section of the EMViewer user manual

Technical Support

For fast and seamless technical support, please gather the following information and contact Y.I.C. Technologies technical support as instructed further below: (support@yictechnologies.com)

1. Serial number of your unit (Shown in the device list).
2. Software version (Menu: Help -> About).
3. Your analyzer control software (e.g., NI-MAX or Keysight Connection Expert)
4. Spectrum Analyzer model and manufacturer (or *IDN)
5. The log file stored in %appdata%/YIC Technologies/EMViewer2/log.txt
6. A detailed description of the problem, including screenshots and video footage.

www.yictechnologies.com

If you can **see** it, you can **fix** it!