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EMProbe E6

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 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

EMProbe E6 Solution

EMProbe E6	The Robotic Arm that will be holding the Near Field Probes during a scan.	1	
EMProbe Base	Metal Base that secures the Robotic Arm to the surface	1	
Power Supply	The power supply for the EMProbe	1	
Emergency Stop Button	When scanning is in progress and an emergency stop has to be implemented.		
NFPSet	The YIC Technologies Near Field Probe set. Comes with 5 probes.	1	
RF Cable			
Lan Cable	This connects the PC (laptop or desktop) to the Robotic Arm.	1	



User-Supplied Components

1. **Spectrum Analyzer:** This device measures the radio frequency (RF) signal received from a probe - generated by the very-near-field emissions of an adjacent activated PCB - and it outputs the data to the PC.
2. **PC:** A PC running Windows 11 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

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

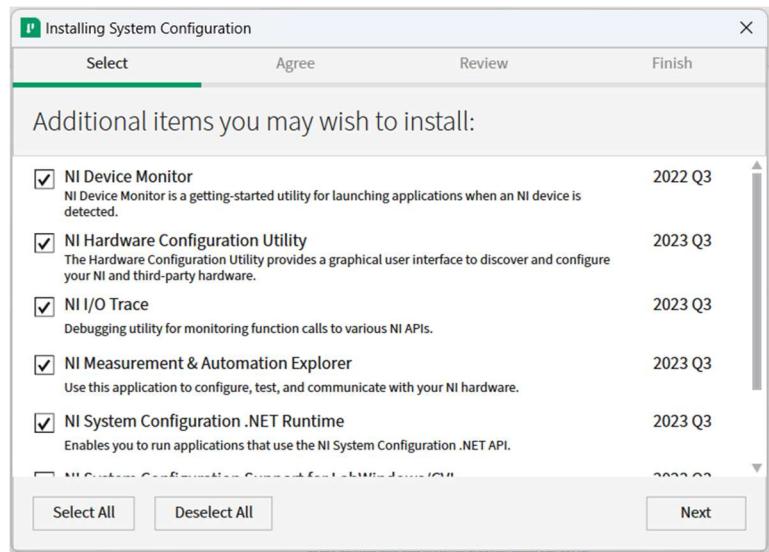
Installation and Hardware Setup

To safely and accurately setup the **EMProbe E6** solution, 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 NI System Configuration 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:**

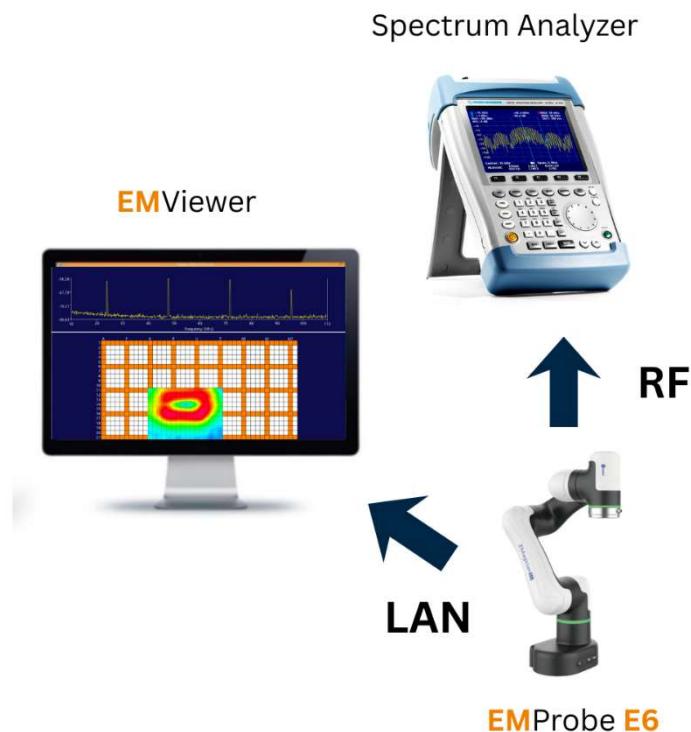
You can download the **EMViewer** software by going to the following linked page: <https://yictechnologies.com/emviewer/>

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 Y.I.C .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 enquiries@yictechnologies.com

3. **Setup:**

Set up your devices as described in the diagram below.



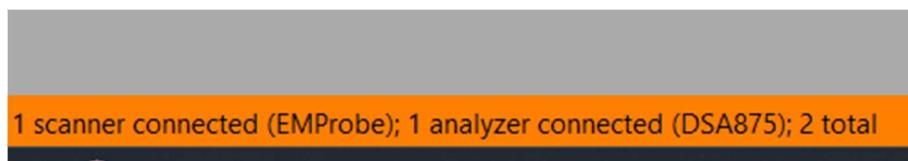


EMProbe Connections:

- **RF Connection:** connect the SMA side of the RF Cable to the probe held by the **EMProbe E6** and the N Type side to the **spectrum analyzer** (RF Input).
- **LAN Connection:** connect the **EMProbe E6** to a PC using the LAN cable. The E6 is set to the static address **192.168.5.1** by default. In order to connect, set the network adapter that is connected to the E6 to an IP on the same subnet (for example: **192.168.5.100**)

Establish a Connection

After you have connected the **EMProbe E6** to the PC and powered it on, wait at least 30 seconds for the software to detect it. You will see the **EMProbe E6** be detected by the software:



EMProbe E6 is now ready for EMC Testing

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.*

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