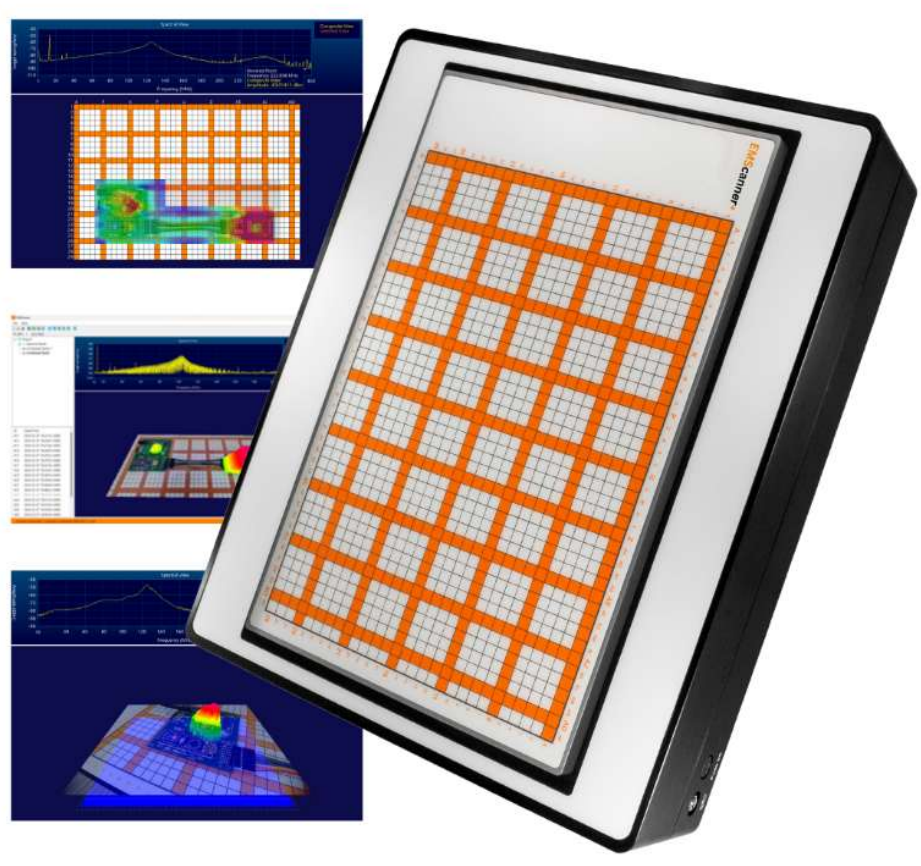


EMScanner+ &

EMScannerR+

Comprehensive Setup Guide





Disclaimer

Warranty

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Safety Notices

Caution

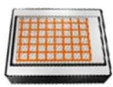


A **CAUTION** notice denotes a hazard. It calls attention to operating procedure, practice, or similar that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood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

Warning

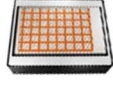


A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or similar that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

Components

EMScanner+

EMS06Plus	This is the EMScanner+ main board with Internal Spectrum Analyzer	1	
USB Cable	This connects the PC (laptop or desktop) to the EMScanner adapter. The USB Cable provided with the system has ferrites on both ends of the cable.	1	
Power Supply	90 VAC to 264 VAC, 12VDC, 8.34A Power Supply for the EMScanner+ .	1	

EMScannerR+

EMSR06Plus	This is the EMScannerR+ main board with Internal Spectrum Analyzer	1	
Power Supply	90 VAC to 264 VAC, 12VDC, 8.34A Power Supply for the EMScannerR+ .	1	
USB Cable	This connects the PC (laptop or desktop) to the EMScannerR+ . The USB cable provided with the system has ferrites on both ends of the cable.		

User-Supplied Components

1. **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 **EMScanner+** and **EMScannerR+**, please refer closely to the following information regarding the full installation process.

-  **Install the EMViewer software application:**

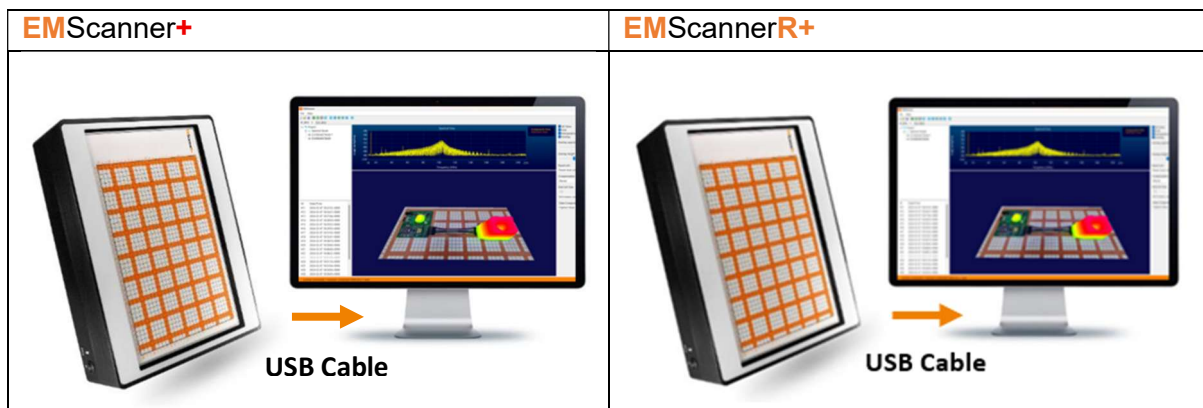
You can download the **EMViewer** software by going to the following linked page:
<https://yictechnologies.com/emviewer/>

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 support@yictechnologies.com.

- Setup the scanner+:**

Setup your devices as described in the relevant diagram below.



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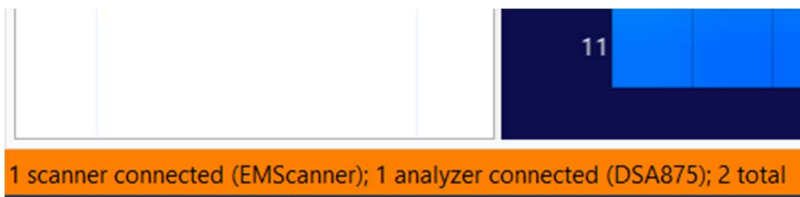
Scanner+ Connections:

- **USB Connection:** connect the unit to a PC using the USB cable.
- **Connect Power connection**

Establish a Connection

Scanner+ Connections

The EMScanner+/EMScannerR+ and the PC connection is a USB-based connection. Once connected, it will automatically be detected by the EMViewer software:



In some cases, the driver required **may not** be installed automatically. If the EMViewer software cannot detect the scanner, the driver will need to be installed manually. A copy of the USB driver can be found on the PC in the following location:

C:\Program Files\YIC Technologies\EMViewer2\drivers\EMScanner

To manually install, copy the EMScanner folder to the desktop, right click on:

EMViewer.inf - > Install

You may delete the folder from your desktop once the driver is installed.

EMScannerR+

Upon power up, your **EMScannerR+** is set to alternate between DHCP mode and static IP until a stable connection is established. If not assigned an IP by a DHCP process, the **EMScannerR+** default static IP address is 172.16.1.148 / 255.255.255.0

DHCP:

1. Connect the EMScannerR+ to the network.
2. Set the PC to **DHCP** and connect it to the same network.
3. Make sure all units are on the same subnet and are fully accessible.
4. The **EMViewer** should automatically detect the **EMScannerR+**



Static IP:

The **EMScannerR+** default IP is 172.16.1.148 / 255.255.255.0

1. Set the PC's IP to 172.16.1.XXX / 255.255.255.0
2. The **EMViewer** should automatically detect the **EMScannerR+**

Warning: If setting to a different IP, ensure that you note down the static IP as this will override the DHCP (i.e., the unit will not try to connect to the DHCP IP).

LED Indicators for **EMScannerR+**:

The colour of the LED light located on the EMScannerR indicates three stages of setup. The three stages are as follows:

- **Red:** The scanner is booting.
- **Green:** Ready for use.
- **Orange:** A scan is currently being run.

NOTE: in some newer units, the **Orange** will appear as a **Blinking Green** instead.

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:

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

www.yictechnologies.com
support@yictechnologies.com

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Suite 3, Avondale Business Centre, 55 Fleet Road, Fleet, Hampshire, GU51 3PJ, UK