RSA Quickinstallation Guide

A detailed Installation Guide (incl Screenshots, default user/passwords) is located on the included CD (`<cd-drive>\Manuals\RSA EMF-Monitor Software\RSAv2.pdf`).

Connecting the cables

1. Connect the power supply and the ethernet cable to the ports on the back side of the RSA unit.
2. Plugin the ethernet cable to the ethernet port of your client computer / switch or router. This depends on your network infrastructure. For a direct connection to the client computer, we recommend a "`crossover`" ethernet cable to make sure that the connection can be established.
3. Power on the Spectrum Analyzer on the right side of the RSA front panel. After that, you can power on the pc unit of the RSA by pressing the `On/Off` switch located in the center of the front panel.
4. Boot / power on your client pc system.

Configure the RSA to client pc network connection

Your RSA unit has the default IP address `192.168.178.33` and the subnet mask `255.255.255.0`. Now you have to configure your client pc to the same net/subnet to communicate with the RSA unit.
The configurations of the network card are different on Windows , Linux and MacOSX . Here you will find a corresponding instructions for the three operating systems.

Configure your Windows 7 client PC for the RSA network connection

1. Open the Windows 7 control panel by pressing the button in the start menu.
2. Move to the section `Network and Internet`.
3. Click to enter the `Network and Sharing Center`.
4. In the Network and Sharing Center you can click the "`LAN-Connection`" to open the LAN connection status window.
5. The status windows gives you the possibility to change the LAN properties of the LAN adapter. Please press the `Properties` button.
6. In the properties window activate the `Internet Protocol Version 4 (TCP/IPv4)` entry by clicking and press the properties button.
7. Now you can change the IP address of the LAN adapter to a specific address. Activate the radio button `Use the following IP address:` and enter an address in the range `192.168.178.1` to `192.168.178.254` except the `192.168.178.33` because the RSA unit already uses this address.
8. In the field Subnet mask, you have to enter the `255.255.255.0`.
9. All other field can be ignored.
10. Press OK button to complete the configuration and close all other windows.
11. Open your webbrowser (Firefox, Chrome, etc) and enter the RSA address in the address field. Now the RSA configuration page should open in the browser window.
12. In the webinterface you can configure the RSA device to the settings of your target network (Page `System Configuration -> IPv4 Configuration`).

Attention:
If you change the IP address of the RSA device to another net / subnet, you have also to reconfigure the network settings of your client pc! Otherwise the webinterface will be unreachable!

Configure your MacOSX client PC for the RSA network connection

1. On MacOSX you find the System Settings Icon in the Dock. Press the icon to open the `System settings` window.
2. Click to the network item to open the network settings.
3. In the network window, choose the entry `manually` in the IPv4 dropdown box. Now you can change the IP address of the LAN adapter to a specific address. Activate the radio button `Use the following IP address:` and enter an address in the range `192.168.178.1` to `192.168.178.254` except the `192.168.178.33` because the RSA unit already uses this address.

4. Press the `Apply` button to complete the configuration.
5. Now follow the step 11 and 12 from the "Windows 7 configuration".

Configure your Linux client PC for the RSA network connection

For Linux OS the network configuration and network tools depend on the Linux distribution. Most distributions has different network configuration components and different desktop environments. Please have a look into the man pages or documentation of the distribution your are running on your system.

1. Press network icon to open the network selection box.
2. Choose the `Edit` option.
3. Activate the `Wired connection` by mouse click and press the `Edit` button to open the configuration dialog for the wired connection.
4. Activate the panel `IPv4 Settings`.
5. Open the Method dropdown and select the Manual setting.
6. After selecting the `Manual` method, press the `Add` button to insert a configuration in the `Addresses` table. Enter the IP address ind the `Address field`, and the subnet mask in the `Netmask field`.
7. Press the `Save` button to save the settings.

Remote Connection via MCS Software

Our MCS software is available for free for all operating systems (Windows, Linux, MacOSX). You can download the latest version on our developer website: spectran-developer.net
After installation of the MCS software, you can find the MCS manual in the MCS installation directory or in the Start menu entry `Aaronia AG -> MCS Spectrum Analyzer -> Documentation.`

1. Launch the MCS software on your client PC.
2. Open the `Spectran` menu and choose to the entry `Network Connection`.
3. The remote connection dialog appears. Please enter the connection parameter depending on your RSA configuration. By default, the IP address is `192.168.178.33` and port `2308`.
4. Press the `Connect` button.
5. Now you'll get the `Username` dialog with the default user `aaronia`. If you use the default user configuration, please press the `Ok` button. Otherwise you have enter an username which is created on the RSA device.
6. Enter the user password (default `aaronia`) in the next dialog and press `Ok` to establish the remote connection.
7. The MCS software is connected to the RSA and the current sweep is shown in the spectrum view.

Remote Connection via Webbrowser (EMF Monitor Software)

It is not required to install our MCS software on the client PC. You have the possibility to see the current measurement data in the RSA Webinterface. Before you get access to to the webinterface, you have to configure the client PC network settings to the RSA settings. Please follow the instructions in the chapter "2. Configure the RSA to client pc network connection".
You can fint the latest version of the complete EMF Monitor Software manual on our developer website: http://spectran-developer.net/doc/rsa-v2-manual/en/RSAv2.pdf
If you have configured the client PC network settings successfully, you can open a web browser (like Firefox, Chrome, Internet Explorer...) on the client PC.

1. Enter the IP address (default 192.168.178.33) of your RSA in the browser address line and press the enter key. The RSA webinterface appears in the browser and you'll be directly redirected to the login page.
2. Enter the username (default `aaronia`) and the password (default `aaronia`) in the username and password field. If you like to be logged in the next time you open the webinterface, set the checkbox `Keep me logged in` (uses cookies). Press the `Login` button to enter the RSA administration area of the webinterface.

If the login was successfully, you can see the current measurement results, device settings and the spectrum view. If you need more functionalities for visualization, please use our MCS software.