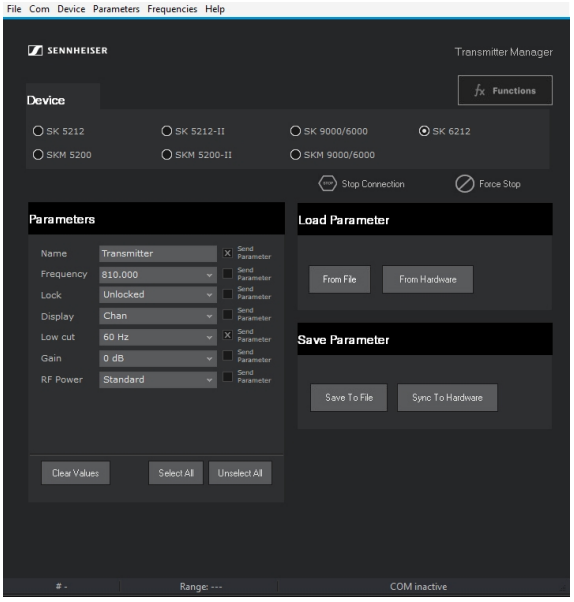
Sennheiser Transmitter Manager (STM)

SSW 211025 R05



Software Manual

As of software version 4.1.1

Sennheiser electronic GmbH & Co. KG, Am Labor 1, 30900 Wedemark, Germany

SENNHEISER

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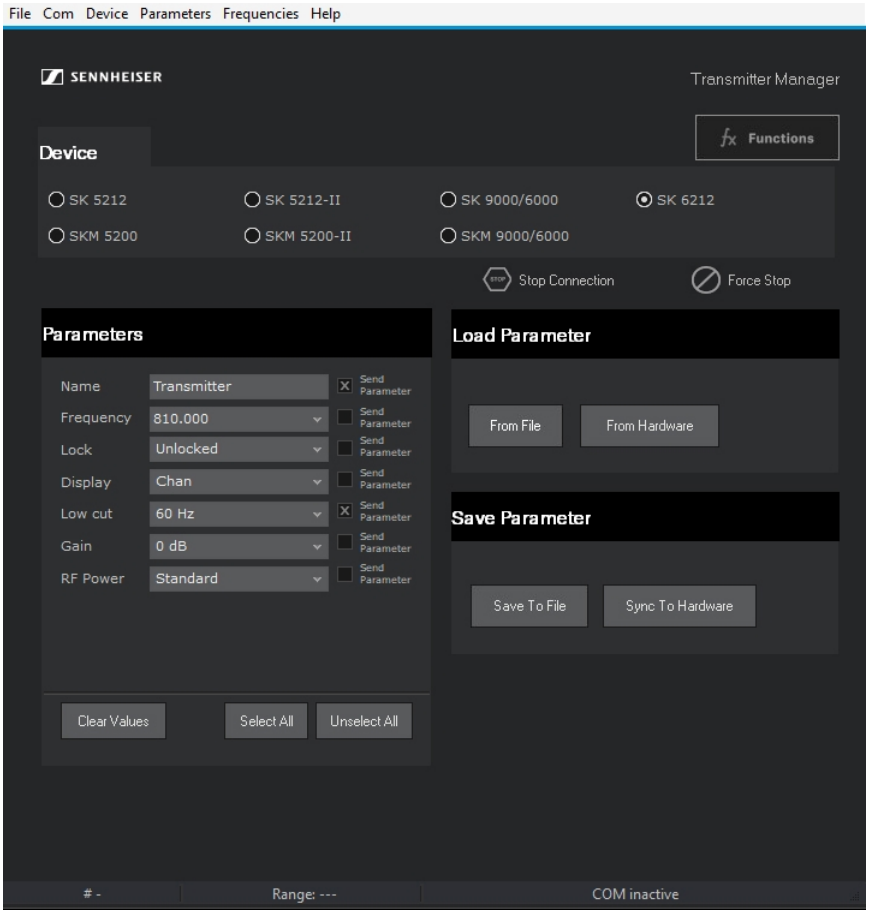
Contents

1 About this software

With the "Sennheiser Transmitter Manager (STM)" you can read out and change parameters of all Supported transmitters (on page 17).

Furthermore you can create your own transmitter parameter profiles for different use cases. Depending on your use case you can write one parameter profile into several transmitters.



2 Start the service software

2.1 Requirements

2.1.1 Commercial service tools and software

Name	Supplier	Specifications
Infrared adapter (USB)	Commercial	We recommend using the following IR adapter: ACT-IR224UN-L+ EMEA: https://www.jacobi.de/IrDA-Adapters/Industrial-Adapters/ACT-IR224UN-L-USB-Infrared-Adapter-IrDA-function-like-IR220L::58.html?language=en Americas: http://www.actisys.com/IrDAProd.html#IR224UN
PC	Commercial	Operating system: Windows® version 10 or higher with free USB port.
Sennheiser Transmitter Manager (STM)	Sennheiser	As of software version 4.1.1. Recommendation: Run the software in 100% windows display scale.

This software has been designed with Windows© 10.

2.2 Prepare your PC

1. Log in as Windows® administrator.
2. Install the Sennheiser Transmitter Manager (STM) on your PC.

3 Menu operations

3.1 "File" menu

Shortcut [ALT] + [F].

Menu bar	Button	Description
From File	From File	Load a parameter profile from your harddisk.
Save To File	Save To File	Save a new or modified parameter profile to your hard disk.
From Hardware	From Hardware	Read out the parameters from your connected transmitter.
Sync To Hardware	Sync To Hardware	Overwrite the parameters of your connected transmitter.
Quit		Close this software.

3.2 "Com" menu

Shortcut [ALT] + [C].

You will connect a USB infrared adapter, but you will establish a serial connection which will be displayed in the Windows device manager. Read Read out transmitter parameters (on page 6)

Menu bar	Description
Close port	Close the currently used serial COM port.
COM x	Select the serial COM port to which your USB infrared adapter is connected. Details are shown in the Windows device manager

3.3 "Device" menu

Shortcut [ALT] + [D].

Menu bar	Description
Device	Select your connected transmitter type in the menu or in the "Device" section.

3.4 "Parameters" menu

Shortcut [ALT] + [P].

Menu bar	Button	Description
Clear Values	Clear Values	All inserted or selected parameters will be cleared.
Select All	Select All	All parameters will be selected.
Unselect All	Unselect All	All parameters will be unselected.

3.5 "Frequencies" menu

Shortcut [ALT] + [R].

Menu bar	Button	Description
Frequency Editor	fx Functions	Opens the "Frequency Editor" window.
Load	–	Load a frequency set file from the hard disk into the frequency editor. You allready see the frequency in the 'Parameters' section.
Save	–	Save the currently shown frequency set file to the hard disc.
–	Load From File	Load a frequency set file from the hard disk into the frequency editor. After editing click on Use to confirm.
–	Import WSM	Load a WSM report file from the hard disk into the frequency editor. After editing click on Use to confirm.
–	Use	Shows the entries of the frequency editor as a preview in the "Frequency" pull down menu in the "Parameters" section.
–	Clear Values	Delete all entries of the "Frequency Editor" window.

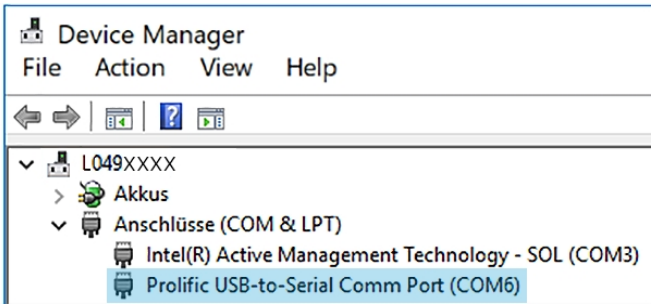
3.6 "Help" menu

Shortcut [ALT] + [H].

Menu bar	Description
About	Software version.
Content	Opens this help.

4 Read out transmitter parameters

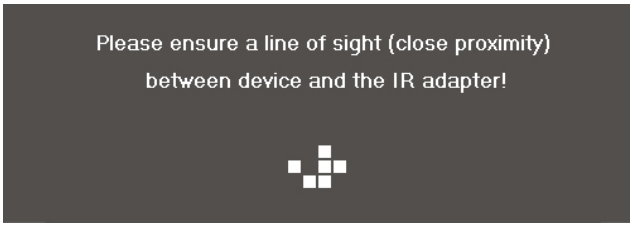
1. Connect a commercial infrared adapter to a USB port. In the Requirements (on page 2) you will find a recommended adapter.
2. Press [Windows] + [x] to open the Windows® control panel.
3. Click on "Device Manager".
4. Note the COM port number of your connected infrared adapter. In the example below the "Prolific" infrared adapter has been connected at "COM6".



5. Start the Sennheiser Transmitter Manager (STM).
6. Select your transmitter type from the "Device" section.
7. In the "Com" menu select your infrared adapter port, in our example "COM6".
8. Switch on the transmitter.
9. Keep the infrared adapter directly in view to the display of one transmitter.

Do not put several running transmitters in view of one infrared adapter. They may disturb the infrared communication of each other.

10. Click on the From Hardware button.
The "Data transfer in process" section flashes white/red. The connection to the transmitter will be established. With the stop button you can interrupt this procedure (only 5000 series).



Result:

- "Parameters" section: All transmitter parameters will be displayed. In the

lower left corner your transmitter will be displayed, e.g. an SK 6212.

- In the status bar the frequency range and the connected PC COM port will be displayed.
- The indicator of the button lights up green.

If the transmitter parameters have not been successfully read out, the indicator of the button lights up red. A reason could be an outdated firmware. Furthermore setting up the PC COM port will take some time, so waiting some seconds after re-selecting the device and re-opening the right port will help as well.

5 Change transmitter parameters

You have Read out transmitter parameters (on page 6)

1. Change the parameter values in the "Parameters" section. The appropriated check boxes will be automatically activated.

   Only activated parameters will be transmitted.

When the activated parameters have been successfully written to the transmitter, in the lower left corner of the "Parameters" section the device entry will be changed. The example below shows an SK 6212.

- "SK 6212 device": No changed parameter(s).
- "SK 6212 device changed: Changed parameter(s).

Each transmitter series has different parameter limitations (e.g. allowed number of display characters). In addition to the following table we recommend to read the specifications in the respective instruction manuals on sennheiser.com.

Name	Description
Name	Enter a transmitter name which can consist of up to 6 characters. Allowed are A-Z, 0-9 and a few special characters..
Frequency	Enter the transmitting frequency directly or select it from the pull down list. You can Edit transmitter frequencies (on page 13)
Lock	Activate or deactivate the autolock function.
View or Display	Select the transmitters display visualization: • "Chan" or "Preset": Transmitting channel will be displayed (not available for SK 6212). The SK/SKM 6000/9000 menu name is "Display" with display visualization "Preset". • "Freq": Transmitting frequency will be displayed. • "Name": Transmitter name will be displayed.
LowCut	To reduce unwanted low-frequency noises, select a low-cut filter: • SK 5212/-II: "Flat" or "120 Hz" • SKM 5200:/-II "Flat", "120 Hz" or "190 Hz" • SK 6000 / SK 9000: "30 Hz" or "60 Hz", "80 Hz", "100 Hz" or "120 Hz" • SKM 6000: "60 Hz", "80 Hz", "100 Hz" or "120 Hz". • SKM 9000: "60 Hz", "80 Hz", "100 Hz" or "120 Hz". • SK 6212: "30 Hz", "60 Hz", "80 Hz", "100 Hz" or "120 Hz"
Attenuation	Select the transmitters sensitivity: • SK 5212/-II: -30 dB to 40 dB • SKM 5200/-II: -40 dB to 0 dB • SK 6000/9000: -6 dB to 42 dB * • SKM 6000/9000: 0 dB to 42 dB * • SK 6212: -6 dB to +42 d
RF output power	The transmitter features switchable output power. With reduced output power, the operating time increases. In addition, you can adjust the transmitter to “Low Intermodulation mode” (“LoI”). By so doing, the transmitters intermodulation performance is significantly improved, especially in multi-channel operation: • SK 5212: "LOW" (10 mW) or "HI" (50 mW) • SK 5212-II: "LOW" (10 mW), "LoI" (10 mW) or "HI" (50 mW) • SKM 5200: 50 mW

Name	Description
	• SKM 5200-II: "LOW" (10 mW), "LoI" (10 mW) or "HI" (50 mW) • SK 6000: "LR" (25 mW) or "LD" (3.5 mW) • SK 6212: "LR": Standard (15 mW) or "LOW" (3.5 mW) and "LD": 3.5 mW • SKM 6000: "LR" (25 mW) or "LD" (1 mW) • SK 9000: "LR" (25 mW) or "HD" (10 mW) • SKM 9000: "LR" (25 mW) or "HD" (10 mW) **SK/SKM 6000:** If you use a new transmitter, you can toggle between "LR" and "LD" mode. If you use an old transmitter, you can only toggle from "LD" to "LR" mode. If you want to toggle this old transmitter from "LR" to "LD" mode, use the EM 6000 sync function.

6 Create a new parameter profile

1. Change the transmitter parameters.
2. To save the parameter profile, click on the Save To File button.

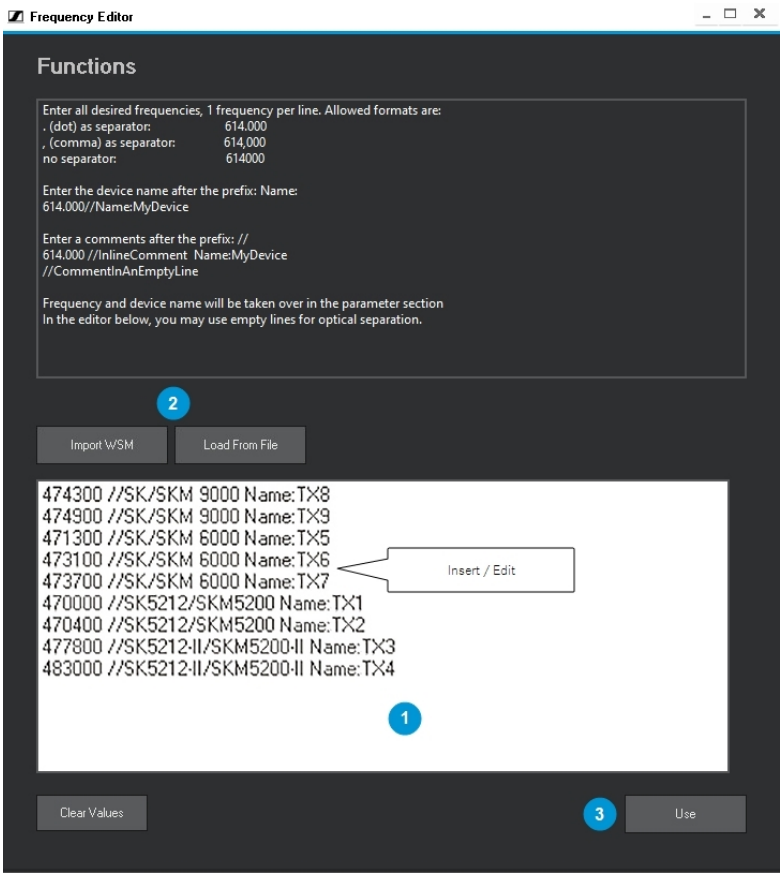
7 Edit parameter profiles

1. To load an existing parameter profile file, click on the From File button.
2. Change the transmitter parameters.
3. To save the parameter profile, click on the Save To File button.

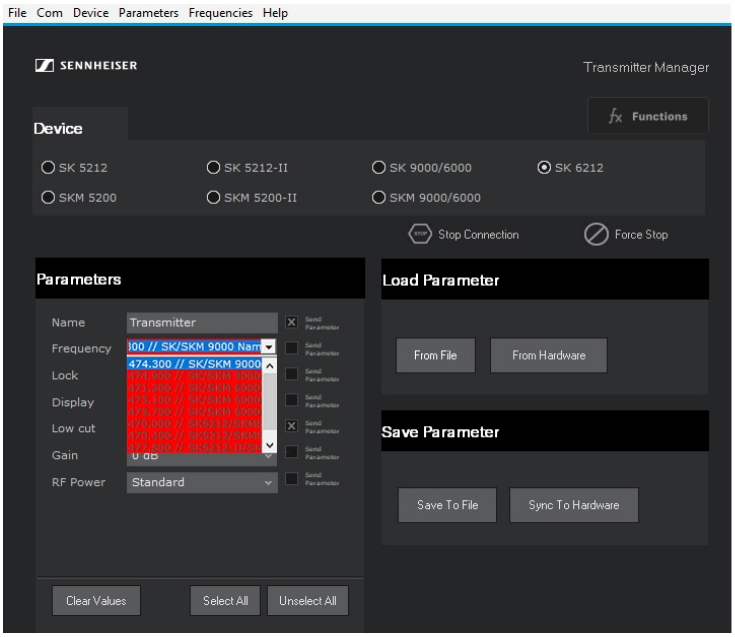
8 Edit transmitter frequencies

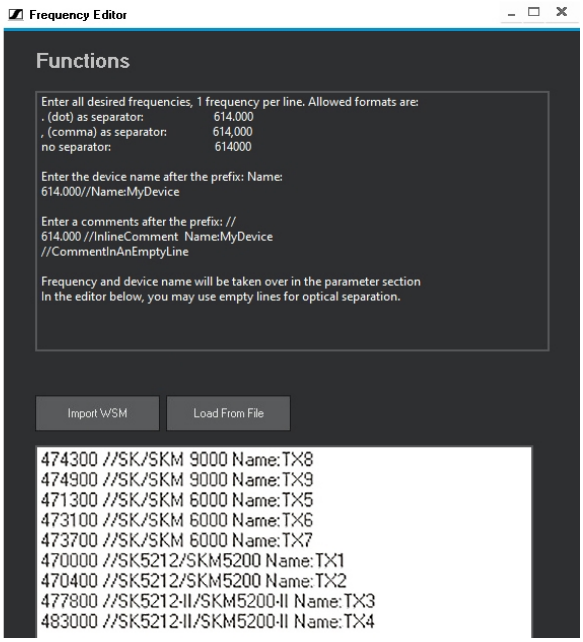
Requirement: You have Read out transmitter parameters (on page 6)

1. Click on the Functions button. The "Frequency Editor" window opens and shows the frequency entries of your connected transmitter.
2. Insert or change entries as described below.



Section	Description / action
❶	Insert or edit frequency entries. To delete all entries, click on Clear Values. • To make the frequencies more readable, you can use a dot for separation, a comma or no separator. • You can add comments after a double slash "//" prefix. • Empty lines for separation are allowed in the editor but will not be shown in the frequency list. • Enter the transmitter name after the prefix "Name:"
❷	• Import WSM report (xml or html file) from your hard disk. • Load From File a frequency set (csv or txt file) from your hard disk. **Note:** Supported transmitters (on page 17) will be supported only.
❸	After your changes, click on Use to show the entries of the frequency editor **as a preview** in the "Frequency" pull down menu in the "Parameters" section. This is useful to edit your entries. When closing this window, the frequencies will be shown in the "Frequency" pull down menu in the "Parameters" section. • The entries of the pull down menu have not yet been written in the transmitter. • The inserted frequency overwrites the first frequency of user bank U1. • Make sure that your inserted frequencies are supported by the transmitter. Otherwise your frequency entry in the parameters "Frequency" pull down menu of the STM will be shown with red background color, see figure below.


File Com Device Parameters Frequencies Help
SENNHEISER
Transmitter Manager
Device
Functions
SK 5212
SK 5212-II
SK 9000/6000
SK 6212
SKM 5200
SKM 5200-II
SKM 9000/6000
Stop Connection
Force Stop
Parameters
Load Parameter
Name
Transmitter
Frequency
Lock
Display
Low cut
Gain
RF Power
Standard
From File
From Hardware
Save Parameter
Save To File
Sync To Hardware
Clear Values
Select All
Unselect All


Frequency Editor
Functions
Enter all desired frequencies, 1 frequency per line. Allowed formats are:
. (dot) as separator: 614.000
, (comma) as separator: 614,000
no separator: 614000
Enter the device name after the prefix: Name:
614.000//Name:MyDevice
Enter a comments after the prefix: //
614.000 //InlineComment Name:MyDevice
//CommentInAnEmptyLine
Frequency and device name will be taken over in the parameter section
In the editor below, you may use empty lines for optical separation.
Import WSM
Load From File
474300 //SK/SKM 9000 Name:TX8
474900 //SK/SKM 9000 Name:TX9
471300 //SK/SKM 6000 Name:TX5
473100 //SK/SKM 6000 Name:TX6
473700 //SK/SKM 6000 Name:TX7
470000 //SK5212/SKM5200 Name:TX1
470400 //SK5212/SKM5200 Name:TX2
477800 //SK5212-II/SKM5200-II Name:TX3
483000 //SK5212-II/SKM5200-II Name:TX4

9 Write parameters into the transmitter

Finally check your changed transmitter parameters.

9.1 Write into one transmitter

1. Click on the Sync To Hardware button.

The "Data transfer in process" status line flashes white/red. The connection to the transmitter will be re-established. The activated parameters of the "Send parameter" check boxes will be transmitted.

Result:

The "Parameters" section shows the changed parameters. In the lower left corner of the "Parameters" section the device entry will be changed.

If the transmitter parameters have not been successfully written, the indicator of this button lights up red. A reason could be an outdated firmware.

9.2 Write into several transmitters

You can write **one** saved or **one** recently loaded profile to several transmitter.

Your can write one parameter profile into different transmitter series. Please observe, that different transmitter series may have different specification limits. If necessary, your entry will be automatically limited (e.g. the end of a transmitter name will be cut).

1. Keep the first "follower" transmitter with the display directly in view of the infrared adapter.
2. Click on the Sync To Hardware button.
3. Continue with further "follower" transmitters.

10 Appendix

10.1 Supported transmitters

5000 series

- SK 5212
- SK 5212-II
- SKM 5200
- SKM 5200-II

6000 series

- SK 6000
- SKM 6000
- SK 6212

9000 series

- SK 9000
- SKM 9000

10.2 Document information

Date	Revision	As of software version Chapter / Comment
MAY 2009	Basic Issue	First published version. Sennheiser electronic GmbH & Co. KG Am Labor 1, 30900 Wedemark, Germany
NOV 2013	R01	Software version 3.3.x: License key version.
JUL 2020	R02	Software version 4.0.0: - Added: SK 6000, SKM 6000 and SK 6212 - No license key required. - New frequency editor features.
DEC 2020	R03	Software version 4.0.0: - Added: New infrared adapter for Americas.
JAN 2021	R04	Software version 4.0.1: - Changed: URLs for infrared adapters in "Equipment"
OCT 2021	R05	Software version 4.1.1: - Redesigned user interface. - Frequency Editor: Import WSM reports as HTML files. - Minor changes of the user manual.

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