

Playback mode

Display example when USB player is in playback mode



Display example when USB player is in playback mode and during playback



Using the USB player in playback mode

Jog dial	Action	Icon	Function
MENU			Returns to the home screen
SLOT 1			Selects a playback option: Random
			Sequence
			Single track
SLOT 2			Repeat function activated
			Repeat function deactivated
SLOT 3			Changes to recording mode
MIC			Short press: jumps to the previous track
			Long press: rewinds the track
AUX IN			Browses through the playlist without stopping the current track
AUX IN			Play
			Pause
USB			Short press: jumps to the next track
			Long press: fast-forwards the track

Recording mode

Display example when USB player is in recording mode



Display example when USB player is in recording mode and during recording



i The time display on the display panel indicates the remaining recording time left on the storage device.

Using the USB player in recording mode

Jog dial	Action	Icon	Function
MENU			Returns to the home screen
SLOT 3			Stops the recording and changes to playback mode
AUX IN			Record
			Pause

Notes on handling recording files

You can either create a new file for each recording or you can append additional recordings to the same file. Recordings are saved as WAV files (stereo / 16 bit / 44.1 kHz).

To create a new recording file for each recording:

- ▶ Change from playback mode to recording mode.
- ▶ Press the **AUX IN** jog dial to start the recording.
- ▶ Press the **SLOT 3** jog dial to end the recording and to change to playback mode.
- ▶ Change from playback mode to recording mode.
- ▶ Press the **AUX IN** jog dial to start the recording.

A new recording file is created. The number at the end of the file name is incremented by one for each new recording file.

To make multiple recordings in the same file:

- ▶ Change from playback mode to recording mode.
- ▶ Press the **AUX IN** jog dial to start the recording.
- ▶ Press the **AUX IN** jog dial to stop the recording.
- ▶ Press the **AUX IN** jog dial to resume recording to the same file.

As long as you do not stop recording mode by pressing the **SLOT 3** jog dial, you continue recording to the same file after recording has been stopped.

Menu

Bluetooth

Bluetooth

Via the Bluetooth menu, you can pair a mobile device (e.g. smartphone, tablet) with the LSP 500 PRO in order to be able to play audio files. The LSP 500 PRO supports the A2DP protocol (SBC and aptX®).

To open the Bluetooth menu:

- ▶ At the first menu level, turn the **MENU** jog dial until the **BLUETOOTH** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **BLUETOOTH** menu item.



- ▶ Turn the **MENU** jog dial to choose between **PAIRING** and **VOLUME**.
- ▶ Press the **MENU** jog dial to open the selected menu item.

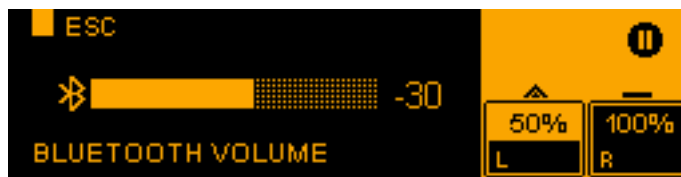


Volume

Adjusting the volume for the Bluetooth interface

To adjust the input volume for the Bluetooth interface:

- ▶ Open the **VOLUME** menu item.
- ▶ Turn the **MENU** jog dial to adjust the desired input volume for the Bluetooth interface.



- ▶ Press the **MENU** jog dial to store the adjusted volume.

i It is recommended to adjust the volume for the Bluetooth interface as high as possible in order to minimize possible noise (hissing or similar). During operation, adjust the volume on the Bluetooth device itself.

Pairing

Pairing Bluetooth devices

To pair a Bluetooth device with the LSP 500 PRO:

- ▶ Open the **PAIRING** menu item.
- ▶ Turn the **MENU** jog dial to choose between **OFF** and **PAIR**.



- ▶ Press the **MENU** jog dial to activate your selection.
- ▶ Select **OFF** to cancel pairing or to end an existing Bluetooth connection.
- ▶ Select **PAIR** to pair a Bluetooth device with the LSP 500 PRO:
Pairing mode is activated. **PAIRING NOW** appears on the display panel and the Bluetooth icon flashes in the status area.



- ▶ Pair your Bluetooth device with the LSP 500 PRO while pairing mode is active. When the Bluetooth connection is successfully established, **PAIRING SUCCESSFUL** appears on the display panel and the Bluetooth icon is displayed steadily in the status area.



When the Bluetooth connection is not made or after an automatic time-out of 30 seconds, **PAIRING FAILED** appears on the display panel.



- ▶ Press the **SLOT 3** jog dial to retry pairing.

i Your Bluetooth device displays the LSP 500 PRO as follows: LSP500-XXXXX. XXXXX stands for the last 5 digits of the LSP 500 PRO's serial number.

i The LSP 500 PRO supports automatic reconnection to the last connected device. For information on whether your device supports this function, refer to the instruction manual of your Bluetooth device.

Menu



Settings

Settings

The **SETTINGS** menu allows you to adjust the LSP 500 PRO settings.

To open the settings menu:



▶ At the first menu level, turn the **MENU** jog dial until the **SETTINGS** menu item is displayed.



▶ Press the **MENU** jog dial to open the **SETTINGS** menu item.



The **SETTINGS** menu contains all the options and functions necessary for configuring the LSP 500 PRO.

Menu
Settings

Test Sound

Test sound

You can play a test sound to check the acoustic function of the LSP 500 PRO.

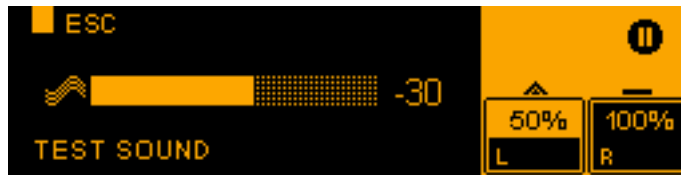
To play the test sound:



▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **TEST SOUND** menu item is displayed.



▶ Press the **MENU** jog dial to open the **TEST SOUND** menu item.



▶ Turn the **MENU** jog dial to adjust the volume of the test sound.



▶ Press the **MENU** jog dial (or the **SLOT 1** jog dial) to adjust the volume of the test sound to 0 and to return to the previous menu level.



The overall volume of the LSP 500 PRO and the volume of the test sound have no effect on one another. When the test sound is activated, the other signals of the LSP 500 PRO are muted. After existing the **TEST SOUND** menu item, the previous volume settings are activated again.



Configuring the signal output to additional devices

You can send the signal of the LSP 500 PRO to one or several LSP 500 PRO – either wired via the **LINK OUT** XLR output or wirelessly via a transmitter installed in the **SLOT 1** expansion slot. Via the **LINK OUT** output, you can also send the signal to an active subwoofer.

To configure the signal output:

- ▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **DAISY CHAIN** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **DAISY CHAIN** menu item.



- ▶ Turn the **MENU** jog dial to choose between **MASTER**, **SLAVE** and **RIGHT-L**.

Option	Function
MASTER	<p>The overall signal of the LSP 500 PRO is available as a mono signal at the LINK OUT output and at the SLOT 1 expansion slot.</p> <ul style="list-style-type: none"> ▶ Select MASTER if you want to send the overall signal of the LSP 500 PRO to one or several LSP 500 PRO – either wired via the LINK OUT XLR output or wirelessly via a transmitter installed in the SLOT 1 expansion slot. ▶ Select MASTER if you want to connect an active subwoofer to the LINK OUT output.
SLAVE	<p>Only the signal of the LINK IN input is available at the LINK OUT output and at the SLOT 1 expansion slot.</p> <ul style="list-style-type: none"> ▶ Select SLAVE if you want to daisy-chain several LSP 500 PRO and to adjust the volume only on one box (master box). ▶ On the master box, select the MASTER option.
RIGHT-L	<p>Right link mode: The signal of the right channel of the AUX IN, BLUETOOTH and USB stereo inputs is available at the LINK OUT output and at the transmitter installed in SLOT 1. The box that is set to RIGHT-L plays the left stereo channel and the connected box plays the right stereo channel. The mono signals of the SLOT 1, SLOT 2, SLOT 3, MIC and LINK IN inputs are played on both boxes.</p> <ul style="list-style-type: none"> ▶ Select RIGHT-L if you want to use 2 LSP 500 PRO in a stereo PA system.

- ▶ Press the **MENU** jog dial to activate your selection.

Menu
Settings



Display Brightness

Display brightness

To adjust the display brightness:



▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **DISPLAY BRIGHTNESS** menu item is displayed.



▶ Press the **MENU** jog dial to open the **DISPLAY BRIGHTNESS** menu item.



▶ Turn the **MENU** jog dial to adjust the display brightness.



▶ Press the **MENU** jog dial to store your setting.

Menu
Settings



WLAN

WLAN

To be able to operate the LSP 500 PRO from a tablet with the “LSP 500 PRO” app in a wireless network, you first have to open the **WLAN** menu and connect the LSP 500 PRO to the wireless network to which you also connect your tablet. For information on how to operate the LSP 500 PRO via a tablet, refer to page 23.

Important information on WLAN operation

In order for you to be able to operate the LSP 500 PRO in a wireless network, the following requirements have to be met. If you have questions, contact your network administrator.

Only unencrypted networks or networks with WPA2 encryption are supported.

Only networks in the 2.4 GHz band are supported (802.11b/g).

The following address and port must be enabled on the network:

- Multicast address 239.255.12.42:1234
- Port 0xD011 (53265)



Basic changes to the WLAN settings of the LSP 500 PRO require a restart of the WLAN module of the LSP 500 PRO. This can take up to 30 seconds.



A list of compatible access points can be found on the LSP 500 PRO product page at en-de.sennheiser.com/lsp-500-pro

To open the WLAN menu:

- ▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **WLAN** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **WLAN** menu item.



On/Off

Switching the WLAN function of the LSP 500 PRO on or off

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **WLAN ON/OFF** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **WLAN ON/OFF** menu item.



- ▶ Turn the **MENU** jog dial to choose between **ON** and **OFF**.
- ▶ Press the **MENU** jog dial to activate your selection and to switch the WLAN function on or off.

When the WLAN function is switched on, you can connect the LSP 500 PRO to a wireless network.

i The following menu items are only available when the WLAN function is switched on.

MAC Address

Displaying the MAC address

To display the MAC address of the LSP 500 PRO:

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **MAC ADDRESS** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **MAC ADDRESS** menu item.

The MAC address of the LSP 500 PRO is displayed.





- ▶ Press the **MENU** jog dial to return to the previous menu level.




Selecting the assignment mode for the IP address and the IP subnet mask

The IP address and the subnet mask of the LSP 500 PRO can be assigned automatically or statically. If address assignment is static, you can enter the IP address and the IP subnet mask yourself and change them. If address assignment is automatic, you cannot change the IP address and the IP subnet mask.

To select the assignment mode for the IP address and the IP subnet mask:

-  ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **IP MODE** menu item is displayed.
-  ▶ Press the **MENU** jog dial to open the **IP MODE** menu item.



-  ▶ Turn the **MENU** jog dial to choose between **AUTO** or **FIX**.

Option	Function
AUTO	IP address and IP subnet mask are automatically assigned via DHCP and cannot be changed.
FIX	IP address and IP subnet mask can be changed.

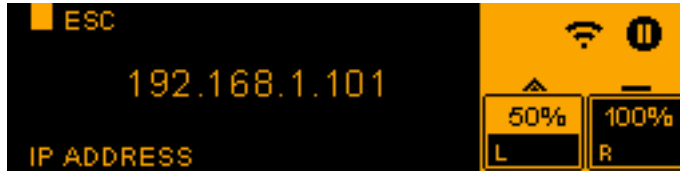
-  ▶ Press the **MENU** jog dial to activate your selection.

IP Address

Displaying and changing the IP address

AUTO assignment mode To display the IP address when **AUTO** is the selected assignment mode:

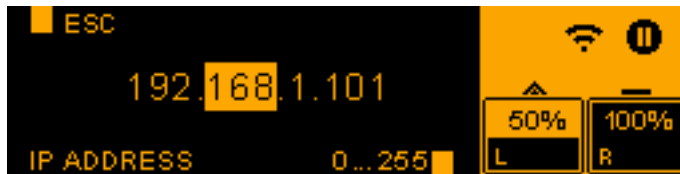
- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **IP ADDRESS** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **IP ADDRESS** menu item. The IP address is displayed.



- ▶ Press the **MENU** jog dial to return to the previous menu level.

FIX assignment mode To change the IP address when **FIX** is the selected assignment mode:

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **IP ADDRESS** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **IP ADDRESS** menu item.



- ▶ Configure the IP address using the jog dials that are assigned the following functions:

Jog dial	Action	Function
USB		Enters numbers from 0 to 255
MENU		Switches between the 4 number blocks of the IP address

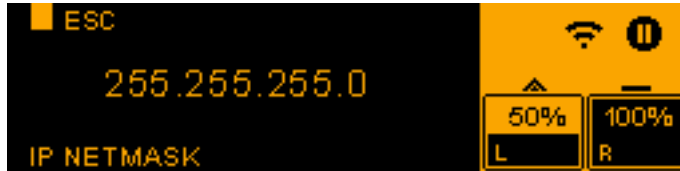
- ▶ Press the **MENU** jog dial to store the new IP address.

IP Net Mask

Displaying and changing the IP subnet mask

AUTO assignment mode To display the IP subnet mask when **AUTO** is the selected assignment mode:

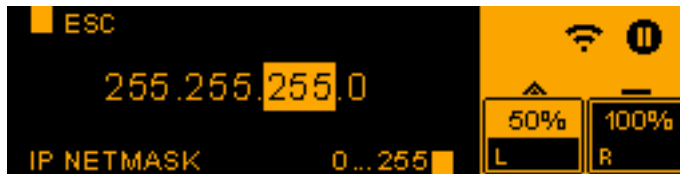
- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **IP NETMASK** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **IP NETMASK** menu item. The IP subnet mask is displayed.



- ▶ Press the **MENU** jog dial to return to the previous menu level.

FIX assignment mode To change the IP subnet mask when **FIX** is the selected assignment mode:

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **IP NETMASK** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **IP NETMASK** menu item.



- ▶ Configure the IP subnet mask using the jog dials that are assigned the following functions:



Jog dial	Action	Function
USB		Enters numbers from 0 to 255
MENU		Switches between the 4 number blocks of the IP subnet mask

- ▶ Press the **MENU** jog dial to store the new IP subnet mask.


SSID List Selection



Selecting a network and connecting the LSP 500 PRO to the selected network

To select a wireless network and to connect the LSP 500 PRO to the selected network:


-  ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **SSID LIST SELECTION** menu item is displayed.
-  ▶ Press the **MENU** jog dial to open the **SSID LIST SELECTION** menu item.



The available networks are shown on the display panel. Encrypted networks are marked with a lock icon.

-  ▶ Turn the **MENU** jog dial to browse up or down through the available networks.
-  ▶ Press the **MENU** jog dial to establish a connection to the selected network.

A tick (✓) next to the network name indicates the network to which the LSP 500 PRO is connected. The lock icon indicates a secure network.

-  ▶ If a network is not encrypted, the connection is established immediately. If a network is WPA2-encrypted, you first have to enter the network key. For information on how to enter the network key, refer to page 49.

SSID Entry

Manually entering a network name

When a network is hidden, but you know its name, you can manually enter the network name to connect to this network.

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **SSID ENTRY** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **SSID ENTRY** menu item.



- ▶ Enter the network name using the jog dials that are assigned the following functions:

Jog dial	Action	Function
MENU		Moves the cursor to the left or right
SLOT 2		Enters a space at the cursor position
SLOT 3		Deletes the character at the cursor position
MIC		Enters capital letters
AUX IN		Enters lower case letters
USB		Enters numbers and special characters

- ▶ Press the **MENU** jog dial to connect to the network whose name you entered.

i If a network is not encrypted, the connection can be established immediately. If a network is WPA2-encrypted, you first have to enter the network key. For information on how to enter the network key, refer to page 49.

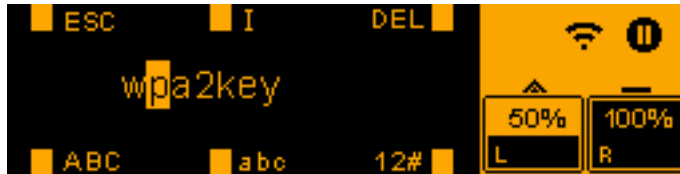
WPA2 Key

Entering a network key

If you want to connect the LSP 500 PRO to a WPA2-encrypted wireless network, you have to select the network (see page 47) and then enter the network key.

To enter the network key:

- ▶ In the **WLAN** menu, turn the **MENU** jog dial until the **WPA2 KEY** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **WPA2 KEY** menu item.



- ▶ Enter the network key using the jog dials that are assigned the following functions:

Jog dial	Action	Function
MENU		Moves the cursor to the left or right
SLOT 2		Enters a space at the cursor position
SLOT 3		Deletes the character at the cursor position
MIC		Enters capital letters
AUX IN		Enters lower case letters
USB		Enters numbers and special characters

- ▶ Press the **MENU** jog dial to confirm the entry of the network key. The connection to the network is established.



Configuring the MIC input

You can reduce the input sensitivity of the **MIC** input by 20 dB. If you are using a condenser microphone, you can also activate the phantom power.

To open the configuration menu for the **MIC** input:

- ▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **MIC** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **MIC** menu item.



Adjusting the input sensitivity

In the event of overmodulation/distortion (the red LED of the channel lights up), you can reduce the sensitivity of the **MIC** input.

To adjust the input sensitivity:

- ▶ In the **MIC** menu, turn the **MENU** jog dial until the **INPUT SENSITIVITY** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **INPUT SENSITIVITY** menu item.



- ▶ Turn the **MENU** jog dial to choose between **-20 dB** and **0 dB**.
- ▶ Press the **MENU** jog dial to activate your selection.



Activating the phantom power

To activate the phantom power for the **MIC** input:

- ▶ In the **MIC** menu, turn the **MENU** jog dial until the **PHANTOM POWER** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **PHANTOM POWER** menu item.



- ▶ Turn the **MENU** jog dial to choose between **ON** and **OFF**.
- ▶ Press the **MENU** jog dial to activate your selection and to switch the phantom power on or off.

i Only activate the phantom power for microphones that require it. Otherwise, malfunctions may occur.





Detecting devices in the expansion slots

The Sennheiser devices of the ew 300 G3 and ew 500 G3 series feature a media control protocol. The media control protocol sends, among other things, information on the battery and mute status of the associated transmitters and on the names of the individual devices to the app.

In order for the “LSP 500 PRO” tablet app (see page 23) to be able to display this status information, the devices have to be detected once they are installed in the LSP 500 PRO. Device detection has to be performed only once after installation of a device.

i Device detection is only necessary if status information from the media control protocol is to be displayed in the app. The devices installed in the LSP 500 PRO also work properly if device detection is not performed.


To start the device detection process:

-  ▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **DEVICE DETECTION** menu item is displayed.
-  ▶ Press the **MENU** jog dial to open the **DEVICE DETECTION** menu item.



- ▶ Switch the installed ew devices on before starting the device detection process.

i In order to avoid possible conflicts with the media control protocol, it is recommended to set the IP assignment mode of the installed ew G3 devices to automatic. For more information, refer to the instruction manual of the ew G3 device.

-  ▶ Press the **MENU** jog dial to start the device detection process.



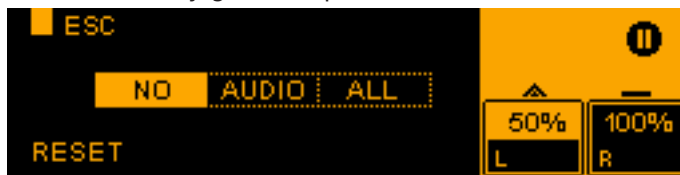
The device detection process is performed and the display panel displays the slots in which a device with media control protocol has been detected.



Resetting the settings

You can either reset all settings of the LSP 500 PRO to the factory defaults (FACTORY RESET) or you can reset only the audio settings (AUDIO RESET).

- ▶ In the **SETTINGS** menu, turn the **MENU** jog dial until the **RESET** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **RESET** menu item.



- ▶ Turn the **MENU** jog dial to choose between **NO**, **AUDIO** and **ALL**.
- ▶ Press the **MENU** jog dial to activate your selection.

Option	Function
NO	No settings are reset.
AUDIO	All audio settings (volume, EQ, compressor, delay, etc.) are reset. The following confirmation message is displayed: <div style="text-align: center; background-color: black; color: yellow; padding: 10px; margin: 5px 0;">AUDIO RESET ✓</div>
ALL	All settings of the LSP 500 PRO are reset to the factory defaults. The following confirmation message is displayed: <div style="text-align: center; background-color: black; color: yellow; padding: 10px; margin: 5px 0;">FACTORY RESET ✓</div>



Service

The service menu allows you to retrieve system information and to update the firmware of the LSP 500 PRO.

To open the service menu:

- ▶ At the first menu level, turn the **MENU** jog dial until the **SERVICE** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **SERVICE** menu item.



System information

Via this menu item, you can display information on the 2 battery packs and on the current firmware version of the LSP 500 PRO.

To display the system information:

- ▶ In the **SERVICE** menu, turn the **MENU** jog dial until the **SYSTEM INFO** menu item is displayed.
- ▶ Press the **MENU** jog dial to open the **SYSTEM INFO** menu item.



Display of battery information

- ▶ Open the **BATTERY INFO** menu item.

The **BATTERY INFO** menu item contains the following sub menu items:

Menu item	Information displayed
BAT1 SERIAL NO / BAT2 SERIAL NO	Serial number of battery pack 1 / battery pack 2
BAT1 PRODUCT DATE / BAT2 PRODUCT DATE	Production date of battery pack 1 / battery pack 2
BAT1 CYCLE COUNT / BAT2 CYCLE COUNT	Number of charge cycles of battery pack 1 / battery pack 2
BAT1 TEMPERATURE / BAT2 TEMPERATURE	Temperature of battery pack 1 / battery pack 2

Display of firmware version

- ▶ Open the **FIRMWARE VERSION** menu item.

The current firmware version of the LSP 500 PRO is displayed.



Updating the firmware

To update the firmware of the LSP 500 PRO:

- ▶ Prepare a USB flash drive (FAT 32 formatting) that contains the new firmware.
- ▶ Connect the LSP 500 PRO to the mains power supply.
- ▶ Connect the USB flash drive containing the new firmware to the USB port of the LSP 500 PRO.
- ▶ Open the **SERVICE** menu.
- ▶ Open the **MAINTENANCE** menu item.
- ▶ Open the **FIRMWARE UPDATE** menu item.



- ▶ Press the **USB** jog dial to start the firmware update.



CAUTION

Malfunction of the LSP 500 PRO due to an interruption during the firmware update!

Once started, the firmware update must not be interrupted, as this will cause the LSP 500 PRO to malfunction and render it inoperable.

- ▶ Do not disconnect the LSP 500 PRO from the mains power supply.
- ▶ Do not remove any battery pack.
- ▶ Do not pull the USB flash drive out of the USB port.

Cleaning and maintaining the LSP 500 PRO

Cleaning

CAUTION

Damage to the product caused by liquids!

Liquids entering the product can short-circuit the electronics or damage the mechanics.

Solvents or cleansing agents can damage the surface of the product.

- ▶ Keep all liquids away from the product.
 - ▶ Do not use any solvents or cleansing agents.
-

- ▶ Before cleaning, switch the LSP 500 PRO off and disconnect it from the mains power supply.
- ▶ Only use a dry and soft cloth to clean the LSP 500 PRO.

Storage

When not using the LSP 500 PRO for extended periods of time, observe the following:






- ▶ Remove the battery packs and store them separately.
- ▶ Use the dust cover supplied with the LSP 500 PRO.

If a problem occurs ...

Problem	Possible cause	Possible solution	See
The LSP 500 PRO cannot be switched on and the green operation indicator does not light up	No battery packs are inserted; the battery packs are depleted.	Insert/replace the battery packs.	page 11
	The mains cable is not connected.	Connect the mains cable.	page 11
	The LSP 500 PRO's automatic charging system does not function.	Remove the battery packs and disconnect the mains cable, wait for 10 seconds and then reinsert the battery packs.	
The LSP 500 PRO is connected to the mains power supply but the red power indicator does not light up	The power outlet is defective.	Check the power supply.	
	The mains cable is defective.	Replace the mains cable.	
	The LSP 500 PRO's power supply unit is defective.	Contact an authorized Sennheiser service partner.	
No audio signal	The overall volume is set to the minimum.	Adjust the overall volume.	page 17
	The volume of the inputs used is set to the minimum.	Adjust the input volume.	page 17
	A condenser microphone is connected to the MIC input and the phantom power is not activated.	Activate the phantom power.	page 50
	No signal is present at the LINK IN input.	Check the signal chain.	
	The mute function of the installed receiver is activated.	Deactivate the mute function on the installed receiver.	instruction manual of the receiver
The audio signal from a wireless microphone is too low	The output volume of the installed receiver is too low.	Increase the output volume of the installed receiver.	instruction manual of the receiver
The audio signal from a wired microphone is too low	The input sensitivity of the MIC input is set to -20 dB.	Set the input sensitivity to 0 dB.	page 50
The audio from a paired Bluetooth device is too low	The volume of the paired Bluetooth device is too low.	Increase the volume of the paired Bluetooth device.	instruction manual of the Bluetooth device
The audio signal of an input is distorted and the LED of the input lights up red	The output volume of the connected device is too high.	Reduce the output volume of the connected device.	instruction manual of the connected device
Noise occurs at high volume levels	The LSP 500 PRO is overloaded.	Reduce the volume.	page 17
	The LSP 500 PRO is mains operated and no battery pack is inserted.	Insert at least one battery pack that can buffer signal peaks.	page 13
The LSP 500 PRO produces hissing but the overall volume is too low. The green LED flickers only occasionally	The output volume of the connected device is too low.	Increase the output volume of the connected device.	instruction manual of the connected device
When turning the jog dial of an expansion slot, the volume level of a wireless microphone does not change	The installed receiver is incorrectly connected to the LSP 500 PRO.	Check the cable connections of the installed receiver.	page 20

Problem	Possible cause	Possible solution	See
Only the left channel of the stereo signal is heard	The Right Link mode is activated.	Check the signal output configuration.	page 41
A loud whistling sound or feedback is heard	The distance between microphone and LSP 500 PRO is too short.	Increase the distance between microphone and LSP 500 PRO.	
	The gain reduction of the compressor is set too high.	Adjust the gain reduction of the compressor.	page 32
	The EQ is incorrectly adjusted.	Check the EQ settings.	page 29
The tablet app does not display the status information of the associated wireless microphones	Device detection for the installed receivers has not been performed.	Perform device detection.	page 51
	The installed receiver is not connected to the LSP 500 PRO.	Check the cable connections of the installed receiver.	page 20
	The installed receiver does not support the media control protocol.	The media control protocol is only supported by devices of the Sennheiser ew 300 G3 and ew 500 G3 series.	
	The IP address of the installed receiver is not valid.	Check the IP address of the installed receiver.	instruction manual of the receiver
Problems with the WLAN connection	Divers causes	Observe the information on WLAN operation.	page 42
A USB storage device cannot be detected or used	The USB storage device is not formatted or not compatible.	Check if the USB storage device complies with the requirements specified for use with the LSP 500 PRO.	page 35
The charge status display on the battery pack does not light up when the corresponding button is pressed	The battery pack has activated the deep discharge protection.	Recharge the battery pack.	page 12
	The battery pack is defective.	Replace the battery pack by a new one and dispose of the defective battery pack.	page 12
Bad reception on the installed receiver, diversity reception does not function properly	The receiver antennas are not optimally oriented.	Check the orientation of the antennas of the installed receiver.	page 20
The radio transmission between 2 LSP 500 PRO is subject to interference	The transmitter installed in the first LSP 500 PRO is set to stereo operation, the receiver installed in the second LSP 500 PRO can only process mono signals.	Set the transmitter to mono operation.	instruction manual of the transmitter
	The 2 LSP 500 PRO are too far away from one another; the radio transmission is affected by obstacles between the 2 LSP 500 PRO.	Reduce the distance between the 2 LSP 500 PRO; remove obstacles that affect the radio transmission between the 2 LSP 500 PRO.	

Error and warning messages on the display of the LSP 500 PRO

Indications on the display panel	Meaning	Possible solution	See
	Lock mode is activated	Deactivate the lock mode.	page 18
	Battery charge status < 21%	Replace the battery pack; connect the LSP 500 PRO to the mains power supply.	page 11
	Battery charge status < 6%	Replace the battery pack; connect the LSP 500 PRO to the mains power supply.	page 11
	Critical temperature rise	Reduce the volume; ensure sufficient cooling.	
	Overheating; emergency shutdown of the power output stage	Ensure sufficient cooling; switch off the LSP 500 PRO and let it cool down.	

Specifications

Housing

Dimensions (W x H x D)	290 x 550 x 320 mm (11.42" x 21.65" x 12.60")
Housing material	crosswise glued plywood sealed with polyurethane coating, black
Front	acoustic foam, black
Bottom	plastic base plate with rubber feet
Handle	integrated carrying handle with plastic coating
Pole mount	36 mm (1.42") tiltable to +/- 13.5° in steps of 4.5°
Weight (without expansion devices, with battery packs)	approx. 13.6 kg (30.0 lb.)

Acoustics

Acoustic design	2-way system, closed
Drivers	woofer: 8" tweeter: 3/4"
Sound pressure level	max. 110 dB SPL (fullspace)
Frequency response	65 Hz to 18 kHz (-10 dB)
Dispersion (h x v)	80° x 60° (-6 dB)

Electronics

Amplifier	Class D
Output power	55 W continuous 120 W peak
Equalizer	semiparametric, 3-band

Connections/interfaces

MIC input	XLR-3F/1/4" (6.3 mm) jack combo socket, switchable 48 V phantom power
AUX IN input	RCA stereo socket
LINE OUT output	RCA stereo socket
LINK IN input	XLR-3F
LINK OUT output	XLR-3M
USB port	USB 2.0
Supported file formats	playback: mp3, wav, aac, flac recording: wav
Bluetooth interface	A2DP (SBC and aptX®)
WLAN interface	IEEE 802.11b/g WPA2 encryption
Slot 1/2/3	1/4" (6.3 mm) jack; 5.5/1.55 mm hollow jack plug; RJ45

Power supply

Mains voltage / mains frequency	100 to 240 V~, 50/60 Hz
Battery packs	2x Sennheiser LBA 500, Li-Ion
Battery voltage / nominal charge	14.4 V / 4.4 Ah
Operating time	approx. 6 h (speech) (approx. 3 h per battery pack)
Charging time	approx. 5 h (approx. 2.5 h per battery pack)

Temperature

Operation	0°C to 50°C (32°F to 122°F)
Storage	-20°C to 70°C (-4°F to 158°F)

Relative air humidity

Operation	10 to 80%
Storage	10 to 90%

In compliance with

Europe (CE):	Radio: EN 300 328 EN 301 489-1/17 Safety: EN 60065
USA:	Radio: 47 CFR 15 Subpart C
Canada:	RSS 210

Accessories

The following accessories for the LSP 500 PRO are available:

- LAS 500 slip cover
- LAP 500 protective cover
- LAB 500 trolley bag
- LBA 500 battery pack

Recommended accessories for the expansion slots:

- Devices of the Sennheiser ew G3 series

Manufacturer Declarations

Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner.

In compliance with the following requirements



- Battery Directive (2006/66/EC)



CE Declaration of Conformity

- RoHS (2011/65/EU)
- Low Voltage Directive (2006/95/EC)
- R&TTE Directive (1999/5/EC)

The declarations are available on the product page at www.sennheiser.com.

Certified by



Audio, Video and Similar Electronic Apparatus – Safety Requirements CAN/CSA-C22.2 No. 60065:03 and UL 60065

Trademarks

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Japanese Radio Law and Japanese Telecommunications Business Law Compliance

Japanese Radio Law and Japanese Telecommunications Business Law Compliance. This device is granted pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business Law (電気通信事業法)

This device should not be modified (otherwise the granted designation number will become invalid)

FCC

This device complies with part 15 of the FCC Rules and RSS Standards. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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