



Microphone Level Adjustment

This document describes the correct adjustment of the sensitivity of the wireless microphones and their receivers in Slots 1 - 3 of the LSP 500 PRO in order to obtain an adequate microphone level for different applications.

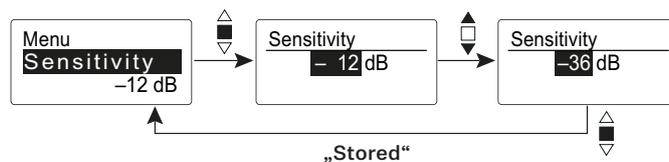
The LSP 500 PRO has three slots for installing microphone receivers of the Sennheiser evolution wireless G4 series. In some applications, especially for speech (e.g. lectures or presentations), the microphone sensitivity of the wireless transmitter (handheld or bodypack) needs to be adjusted to achieve a sufficient level of the microphones.

The default microphone sensitivity setting of the evolution wireless G4 series is -12 dB. This is an adequate level for singers and vocalists with a powerful voice. For speech, a more adequate level is -6 dB or even 0 dB.

Sensitivity setup of the evolution wireless handheld transmitter

To manually set up the sensitivity of the handheld transmitter:

- ▷ Press the multi-function switch of the handheld transmitter to open the main menu.
- ▷ Move the multi-function switch to change to the “sensitivity” menu item.
- ▷ Press the multi-function switch to call up the menu item.
- ▷ Move the multi-function switch to adjust the input sensitivity.
- ▷ Press the multi-function switch to store the setting.

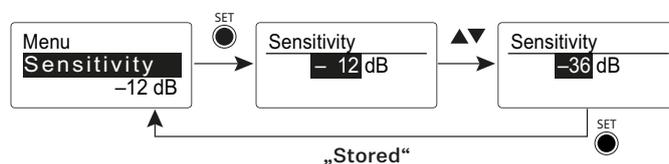


i Test the microphone sensitivity and make sure it is not too high. Otherwise this could generate distortion.

Sensitivity setup of the evolution wireless bodypack transmitter

To manually set up the sensitivity of the bodypack transmitter:

- ▷ Press the **SET** button of the bodypack transmitter to open the main menu.
- ▷ Press the UP/DOWN button ▲/▼ to change to the “sensitivity” menu item.
- ▷ Press the **SET** button to call up the menu item.
- ▷ Press the UP/DOWN button ▲/▼ to adjust the input sensitivity.
- ▷ Press the **SET** button to store the setting.



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Output level of the ew G4 microphone receivers

The ew G4 receivers used with the wireless microphones have to be set to AF Out +18 dB in order to get an accurate microphone level.

Also refer to the Application Note AN IS-1003 v1.0 for additional information on ew G4 receivers used with the LSP 500 PRO.



Automatic sensitivity setup using the SYNC function (ew 300 G4 / ew 500 G4 only)

The microphone sensitivity of the wireless handheld and bodypack transmitters can be adjusted automatically via the SYNC function of the EM 300-500 G4 microphone receiver. For that purpose, the desired microphone sensitivity of the transmitter can be adjusted in the receiver and can then be synchronised to any wireless transmitter of the Sennheiser evolution wireless 300 G4 and 500 G4 series.

This is especially useful when you are using different wireless microphones with different microphone receivers. You only need to adjust the sensitivity for the transmitters once in the receiver and you can synchronise it to the every transmitter you are using in the respective application.



To set the sensitivity of the transmitter in the receiver:

- ▷ Open the main menu of the receiver.
- ▷ Navigate to the Advanced menu item.
- ▷ Open the Sync Settings menu item.

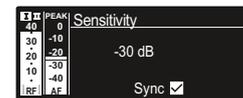


Via the **SK Settings** and **SKM Settings** menu items you can set the bodypack and wireless transmitter parameters directly on the receiver. The transfer of these parameters needs to be activated by ticking the **Sync** checkbox in the **Sensitivity** menu item.

The transfer of the sensitivity parameters is deactivated:



The transfer of the sensitivity parameters is activated. Always have this option enabled in order to ensure the synchronisation of the correct sensitivity to the respective transmitter.



Adjusting the sensitivity for other applications

After using the wireless transmitters for speech applications with a microphone sensitivity of -6 dB or 0 dB, you should make sure to adjust the microphone sensitivity for any following applications which might require a different microphone sensitivity. Otherwise this might lead to unwanted distortion.

If you are using the SYNC function with different receivers in other applications, you need to make sure that the sensitivity parameters are also synchronised. If you do not activate the transfer of the sensitivity parameters, the sensitivity of the transmitter might remain at -6 dB and might be too high for other applications.