www.p-ear-s.ch
Swiss-Made In-Ear Monitors
Bahnhofstrasse 87
3232 Ins
Switzerland

User Guide

Please read this user guide carefully before using the In-Ear Monitors.

Important information regarding safety
Using In-Ear Monitors is an efficient way to protect your hearing on stage as they attenuates the ambient sound by blocking the ear canal. It is therefore possible to listen less loud than a wedge while keeping the same signal to ambient noise ratio. However, some safety rules are to be respected:

Listen at a moderate sound level

Listening at high sound level can irreversibly damage your hearing.

In-ear monitors are professional products able to deliver louder sound levels than conventional consumer earphones. It is necessary to adjust the volume control as low as possible, even if they are connected on a consumer device (smartphone, MP3 player, laptop, tablet, etc…). It is recommended to never exceed 50% of the max volume of this kind of devices.

When the in-ear monitors are used with a professional device (RF receiver, headphone amplifier, mixing console, etc…) the sound level can even be louder as the headphone output of those device is more powerful than consumer products.

Take care of always adjust the volume control of the device at the minimum before using the monitor, and then, slowly increase the volume up to a comfortable but moderate level.

! The user is solely responsible for the noise level to which he uses the product, as well as damage to his own ears by listening at excessive levels!

To get an idea of sound levels:
European legislation sets threshold at which it is mandatory to wear hearing protection at work at 85dB SPL for 8 hours a day. The dB is a logarithmic unit: an increase of 3 dB is equivalent to a doubling of energy. So, the exposure time must be divided by 2

85dB SPL -> 8h
88dB SPL -> 4h
91dB SPL -> 2h
93dB SPL -> 1h
96dB SPL -> 1/2h
99dB SPL -> 1/4h
Etc…

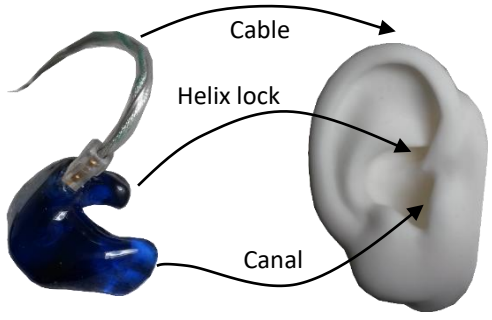
The standards for portable music players with their original earphones set the maximum level 100dB SPL, that corresponds to a daily use of less than ¼ h at maximum volume!
To give you an idea, at a concert of 2 hours, you should use in-ear monitors at a sound level corresponding to what you get with your smartphone at a volume to 50 % with original earphones.
For comparison, the max continuous sound level of a stage monitor (wedge) at a distance of 1.7m is approx. 120dB.

Risks related to surrounding noises attenuation

Since the in-ear monitors block out ambient noise, never use them while operating machinery or driving any kind of vehicle, walking, cycling or during any other activity where failure to hear outside sounds or alerts can be dangerous.
The user is solely responsible for any accidents

First use

Get used to the different parts of your IEM's and their placement in your ears:



Identify Left and Right according to the color of the small dot on the connector. (Red=Right, Blue=Left).

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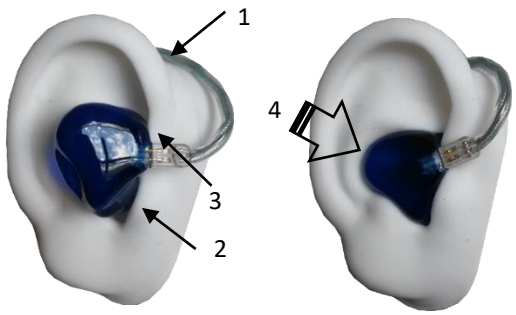
Placement

! Before inserting the IEM's in your ears, make sure that the volume control of the device is set that the minimum level !

1. Place the hook of the cable around your ear.
2. Place the canal
3. Place the « Helix-lock »
4. Push slightly on the IEM to insert it.



It often happens that the « Helix-lock » is not correctly insert:

To get used to correctly place the IEM's in your ears, we recommend to train yourself in front of a mirror.

For the best comfort, it is recommended to place the cable on your back. Slide the transparent tube to hold the cables behind your neck. Use the delivered clip to hold the cable on the collar for more freedom of head movement.

Maintenance

It is necessary to regularly remove cerumen (ear wax) that can accumulate around the sound outlet.

To do this, use the metal part of the supplied cleaning tool. Be careful not to push earwax into the sound outlet, and not to force with the tool. This may damage the internal components of your in-ear-monitors. Use the brush tool to remove the loosened residue.

To clean the shells, use paper towel or soft tissue slightly humid. If necessary, use a little soap or dishwashing liquid. Make sure in any case that no liquid enters the sound outlet and in the connectors.

! Do not put the in-ear monitors in liquid !

The warranty does not cover damage caused by excessive earwax or improper cleaning.

Technical data

SH-2

Frequency response: 10Hz – 17kHz
Sensitivity: 113dB/mW
Impedance: 56 Ohms

SH-3

Frequency response: 10Hz – 18kHz
Sensitivity: 116dB/mW
Impedance: 25 Ohms