

### Ear Tip Measurements: EN 352-2:2020

Frequency [Hz]	125	250	500	1000	2000	4000	8000
Mean Attenuation [dB]	16.0	15.8	16.0	14.5	14.8	16.6	23.4
Standard Deviation [dB]	4.9	4.9	4.4	1.9	3.0	4.1	4.8
Assumed Protection Value [dB]	11.1	10.9	11.6	12.6	11.8	12.5	18.6

	SNR	H	M	L
Mean [dB]	16.1	15.2	14.5	14.5
Standard Deviation [dB]	1.5	2.1	1.6	2.3
Assumed protection (a=1)	14.6	13.1	12.9	12.2
Nominal value [dB]	15	13	13	12

### Ear Tip Measurements: ANSI S3. 19-1974

Tip Type	125	250	500	1000	2000	4000	8000	NRR
1-flange tips (mean)	21.4	20.8	18.9	18.1	16.7	19.3	20.8	11
2-flange tips (mean)	19.4	19.6	17.7	15.8	15.0	18.8	24.0	10
3-flange tips (mean)	19.5	20.1	18.8	16.2	15.4	17.3	20.0	10
Foam tips (mean)	22.8	21.1	18.7	17.9	16.2	20.0	22.2	13

### Choosing the correct ear tip

A good seal into the ear canal is important for the best sound experience, but comfort may be an additional factor in choosing your preferred ear tip. A triple flanged silicone ear tip pressed far into the ear canal usually provides the tightest seal for most people. This gives the best frequency response. However, some may find that foam ear tips are more stable and comfortable, and therefore allow them to wear the earplugs for longer periods of time. The user may choose to accept a slightly less ideal seal for the sake of comfort, and this will typically increase the bass levels slightly through the earplugs.

### Warning

- Unless supplied information is adhered to, protection afforded by the earplugs will be severely impaired.
- These earplugs should not be used where there is a risk that the connecting chord could be caught up during use.
- Do not remove earplugs by pulling the interconnecting cord. Sudden or fast removal of earplugs out of the ear canal may damage the ear drum.

### Cleaning

Wipe off the earplugs with a clean cloth, or use the brush to clean off any excess ear wax or debris. When needed, disinfect the outside by applying a thin layer of alcohol and lightly rubbing off excess. Soaking and/or heavy rubbing might cause marks and deterioration of the materials. Do NOT use any chemicals, detergents, or soak the earplugs in water as this may harm the function of the earplugs.

The copper plate is a natural material and may develop a natural patina and wear over time. If you would like to clean it and restore some of the original shine, it is possible to use a dedicated copper cleaner with oxalic acid. However, be very careful not to get the cleaner in the acoustic grid or anywhere on the earplug that comes in contact with skin.

This product may be adversely affected by certain chemical substances. For further information contact Minuendo®. The silicone tips can be dismantled and cleaned in warm water for about 5 min. Give them a good wipe and leave to dry on a paper towel. The foam tips can NOT be washed in water, as these are not water-proof. Replace foam tips upon signs of deterioration.

### Storage

Please store the earplugs in the included carry case between uses. Stay away from direct sunlight over time to avoid discoloration of the outer surfaces. Avoid temperatures over 40 °C for best long-term performance. Unless damaged, the earplugs are expected to last more than 3 years after purchase date. Please return product if it is not functioning within the warranty period. All the ear tips are replaceable and disposable if worn out.

### Mandatory information

- Re-usable earplugs
- 11 sets of various tips included, with diameters from 7 - 12 mm (S, M, L)  
Reusable silicone 1-flange (S=9mm, M=10mm, L=11-12mm)  
Reusable silicone 2-flange (S=7-9mm, M=8-9mm, L=8-9mm)  
Reusable silicone 3-flange (S=7-10mm, L=8-12mm)  
Disposable foam (S=9-10mm, M=10-11mm, L=11-12mm)

- Tested to SNR 15dB according to EN 352-2:2020 and compliant to PPE Regulation (EU) 2016/425.
- Regulation 2016/425 on Personal Protective Equipment, as amended to apply in GB.
- CE Type Approval: SATRA Technology Europe Ltd (2777). Bracetown Business Park. Clonee. D15 YN2P. Ireland
- UKCA Type Approval: SATRA Technology Centre Ltd (0321). Wyndham Way, Telford Way. Kettering. Northamptonshire. NN16 8SD. UK.
- CE markings are in accordance with EN 352-2:2020.
- The products are approved to Module B EU type-examination and C2 ongoing production monitoring by SATRA.

### Disclaimer

The earplugs should be worn at all times in noisy surroundings/areas without interruption. To ensure the earplugs fit correctly and provide hearing protection, please carefully read the fitting instructions. It is the user's full responsibility to be sufficiently protected in varying sound levels. Even when you use and fit Minuendo earplugs correctly, it is still possible to suffer temporary or permanent hearing loss if the combined sound levels and exposure time are above safe levels. Generally, it is safe to be exposed to 85dB for 8 hours per day without protection. If the level is increased by 3dB, the safe exposure time is halved. Minuendo® does not accept any liability for hearing loss or any damage you might get while using (or not using) our products. Minuendo earplugs should be regularly inspected for damage and should not be used if it is suspected that service or repair is needed.

Additional information can be obtained by emailing [hello@minuendo.com](mailto:hello@minuendo.com) or by sending post to Minuendo AS, Nedre Slottsgate 2C, 0153 OSLO, NORWAY.

User guides are available in other languages here: [minuendo.com/userguides](https://minuendo.com/userguides)

EU and UKCA declaration of conformity can be found at: [minuendo.com/doc](https://minuendo.com/doc)

Model: LIVE 17dB  
Modelnumber: ML1701  
MADE IN NORWAY



## USER GUIDE

 Tag us @minuendosound

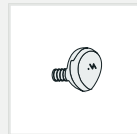
## In the box



Carry case



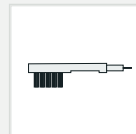
Right earplug



Left earplug



Leash

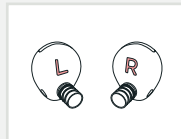


Cleaning brush

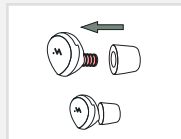


Ear tips

## Getting started

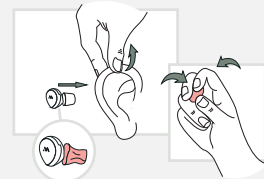


1. Identify the left and the right earplug.

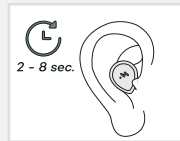
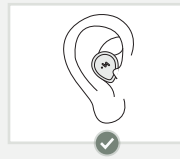


2. Choose an ear tip that you think will provide a comfortable but tight fit.

Insert it fully onto the nozzle of the earplug.



3. Slightly lift your ear and insert the assembled earplug in the ear.

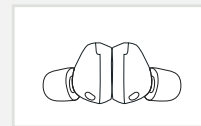
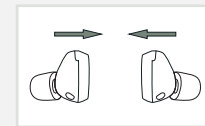


4. The earplug should sit firmly in the ear canal.

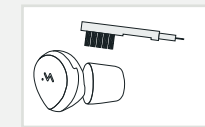
5. Push the earplug with a finger to make sure it is securely positioned.

6. If using foam, wait for 2 to 8 seconds to see if the ambient noise level decreases.

## Magnetic snap



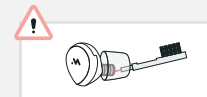
## How to clean



Use the brush to clean.



Use the tip to remove debris.



Do **NOT** puncture the earplug.

## Fastening neck leash

