

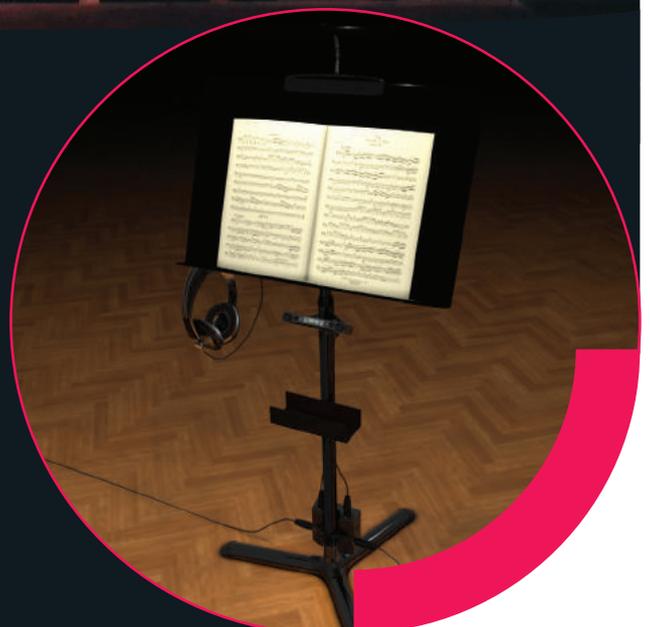
# Sotto Voce

Your Hearing is Precious. Monitor and Protect it.



## Sotto Voce simplifies sound level safety compliance

-  Accurate, instantaneous monitoring of sound levels throughout the orchestra
-  Instantly warns individual musicians of dangerous sound levels
-  Historical logging of each musician's sound exposure during rehearsal and performance
-  Risk map of each musician's exposure available to managers, in real-time and retrospectively
-  Individually tailored headphone mix available to each musician
-  Attaches to any music stand, with optional built-in light.



**“Thanks to Sotto Voce, my conductor and artists can focus on their performance and not worry about hearing damage”**

**(Orchestra Manager )**

## Introduction

**Sotto Voce is a complete acoustic safety and personal monitoring system. It enables orchestral management to understand acoustic exposure and allows musicians to perform with confidence.**

### Sotto Voce System

Sotto Voce consists of a **Server** connected to **Pods** attached to each musician’s stand. A **Tablet** is also provided to display real-time sound levels and manage the system configuration.

The **Pod** fits to any music stand and includes:

#### Control Unit

The Control Unit displays the sound level at that location in real-time, and includes headphone sockets for two musicians with volume and mix controls.



#### Head

The Head incorporates a calibrated microphone which monitors sound levels and captures audio for archival recording and a dimmable light. Also available without the light.



#### Base

A single Cat 6 cable looping from one Pod to the next carries power and data and connects all **Pods** to the Server.

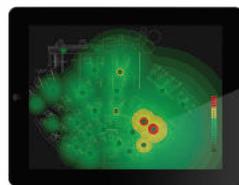


#### Server

The Server manages and powers the Sotto Voce system and can be positioned anywhere up to 100 metres from the Pods.

Audio and sound levels from each Pod is stored on the Server for retrospective analysis. If internet connection is available, sound level data and archival recording can also be stored in the Monarc Cloud.

Sotto Voce includes a Tablet which displays a real-time risk map showing each musicians’ instantaneous and historical sound levels. The tablet is also used for system configuration and connects wirelessly for complete portability.



### Musicians and Conductors

Sotto Voce provides a professional tool to address musicians’ and conductors’ concerns about the risk of hearing loss.

-  Musicians are kept constantly informed of their instantaneous and peak sound level exposure on their Pod Control Unit display.
-  The Control Unit immediately flashes a warning if the pre-defined sound level is exceeded.
-  Musicians can quickly and easily adjust their headphone level and the balance between themselves and the rest of the orchestra.

### Orchestral Management

Sotto Voce provides real-time and historical sound level data and the option of audio capture for every musician, in every rehearsal and performance.

-  Acoustic safety is achieved by detailed analysis of instantaneous and historical sound pressure levels, displayed on the tablet.
-  A record of workplace acoustic safety compliance is provided. Comprehensive sound level data and raw audio is captured for every session, providing defense against future claims.
-  Costs are reduced as the need for expensive acoustic consultants is eliminated.
-  Set-up times and cable clutter are minimised – a single cable carries data and power to Pods, including stand lighting.

### Venue Management

Sotto Voce offers venue management tools to understand and reduce acoustic safety risk for performers, guests and staff.

-  Environmental acoustic safety compliance is achieved by deploying Sotto Voce throughout the venue.
-  Historical sound level records provide defence against future hearing loss claims.
-  Demonstrates to performers, guests and staff that hearing safety is taken seriously.