



# Symphonia

SOFTWARE FOR VIRTUAL SOUND ENVIRONMENT CREATION

## DESCRIPTION

Symphonia is a software that simulates a realistic sound environment. It provides background noises and 360° directional sound sources, and allows the operator to change in real time the angle and distance from which sounds are perceived by the patient.

With Symphonia it is possible to make the patient feel the benefits provided by advanced hearing aid features.

## CONFIGURATIONS

Symphonia works with a multichannel soundcard (ESI Gigaport) and a system consisting of a minimum of 3 up to 8 powered loudspeakers, or unpowered loudspeakers with an external amplifier.

## AVAILABLE SIGNALS

It is possible to select between different soundfields:

- Coffee shop
- Restaurant
- Street
- Car
- Ocean Waves

All recorded with special multichannel microphones, they can be used as "background" for the sound sources that can be placed at liking, and include vocal and musical instruments recordings. More signals could be added in the future.

The user can also import custom sound files (.wav or .mp3) and use them as sources.

## SOURCES MANAGEMENT

It is possible to add up to 3 directional sound sources emitting at the same time, with different angle and intensity for each source.

Every source can also be emitted from all the speakers and become an omnidirectional sound.

## INTENSITY RANGE

From 50 to 85 dB SPL perceived in the central point, for both the soundfield and the sources.

## SPEAKERS POSITIONING

It is possible to place the speakers at a distance from 1 m to 2 m around the patient's seat.

## CALIBRATION

Calibration should be performed at first start with a free field sound level meter, in order to obtain a precise sound emission.

## MINIMUM SYSTEM REQUIREMENTS

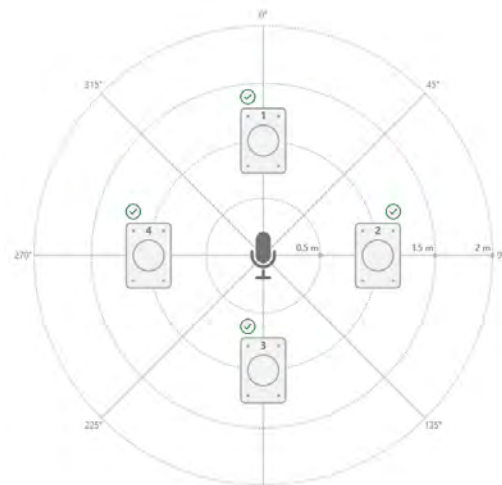
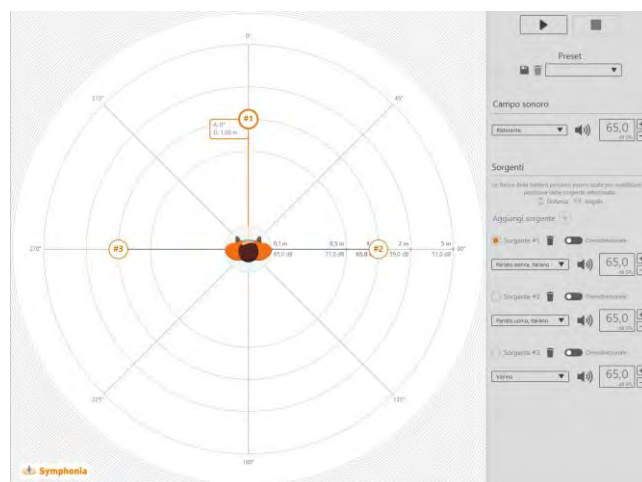
Processor: Intel® i5, 5<sup>th</sup> generation or above

RAM: 4 GB

Operative System: Windows 10 or later, 32 or 64 bit

Supported soundcards: ESI Gigaport HD+, ESI Gigaport eX

Speakers: from 3 to 8, with RCA connectors



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EQUIPMENT

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