Sound Masking System (*In ceiling*)

ProductCode: SM-SM-IC
[Note 1]

Technical Data Sheet

Product Description

Soundmask's systems are custom built for the space you specify - they are not just speakers and white or pink noise. They are also cost effective compared with structural changes.

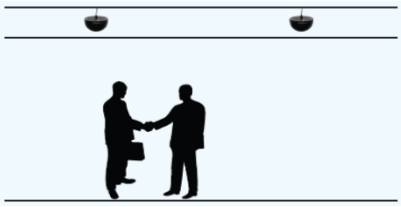
A Soundmask system works by generating unobtrusive sound waves. This imperceptibly increases the level of background sound in the space, masking intrusive noise like typing or chatter and ensuring that speech is unintelligible. Soundmask systems come in a range of sizes and modes of operation to suit any space-from residential apartments, where surrounding noise intrudes, to open-plan offices where internal noise and conversations offer distractions and limit privacy, and to hospitals where a quieter space improves quality of life for patients and staff.

Soundmask systems mask intrusive noise and ensure speech privacy.

The space itself appears quieter because intrusive sound and intelligible speech are masked. Further, Soundmask systems do not become distracting because the generators that create the sound waves are programmed not to repeat for several lifetimes.

In-Ceiling System Installation

The ***in ceiling*** system is the most commonly requested Soundmask system. Installed within existing suspended ceilings, or during construction, the system is concealed overhead.



Note 1- This product is supplied/ manufactured by Soundmask Australia Pty Ltd. All material warranty shall be provided by the manufacturer, and limited by the clauses and conditions of warranty.

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Soundmask's **Random Digital Noise Generators** are the backbone of Soundmask's systems. Available as a rack (for example, model *SM-GR-3100*, *pictured below*) or shelf generator (for example, model SM-GS-3200, *pictured right*), each is a microcontroller controlled digital random noise generator with an effective frequency range of 20Hz to 20kHz. The digitally generated Gaussian noise is passed through a Spectrum Shaper to flatten its response through the midrange, corresponding to human speech frequencies.

The output can further be shaped through an external Soundmask Third Octave **Digital Equaliser**, (for example, model S*M-EQ-2000*, *pictured below*), via two XLR connectors. The random noise is then amplified through a 50W full bridge digital amplifier capable of driving 100 Soundmask **Speakers** (SM-T-1200 white and SM-T-2200 black, *both pictured below right*). The generator's output can be adjusted to ramp up when the device is switched on for a more acoustically comfortable start up.

For further cost efficiency, Soundmask's **Zone Distributor** (*SM-DR-5000*) can be used where separate areas have different needs, but the client wants to spare the expense of multiple generators. The unit is a five channel volume control, each channel with separate attenuator. It is a single rack unit designed for convenient installation. Each channel has a maximum loading capability of 200 watts.

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