

The Secrets Of Dance Music Production David Felton.epub

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Chapter seven The studio and its tools

## IMPROVING ACOUSTICS

A good listening environment is one in which reflections are controlled so that all frequencies decay at the same time (a reverb decay time of between 0.3–0.5 seconds). This means taming both higher frequencies and the more difficult lower ones, as well as dispersing reflections which would otherwise form room most form to make form room most.

In the quest for the perfect room there are two key weapons in the acoustician's armoury, diffusers and absorbers, each of which deal with a specific problem:

» Diffusers scatter sound energy over a vide angle rather than bouncing it back like a mirror. They randomise hard reflections that might otherwise confuse streen imaging and cause flutter e-cho. The simplest kind of diffuser is an inegular solid surface, other made from different, height wooden blocks fixed to a flat panel. Lossally these are sted on the back wall of a studio—scattering the sound waves that come directly from the speakers – or on the

Absorbers are panels of porous material such as mineral wool or open-cell foam that absorb sound energy, reducing reflections and ambience in the room.

With absorbers, size matters. For it to be effective an absorber needs a thickness



The diffuser on the back wall of Florian Miendl's Berlin studio. "This is my self-constructed quadratic residue diffuser made of 284 wood parts," he says, "it diffuses the frequencies bouncing back behind me."

comparable to a quarter wavelength of the sound being absorbed. A LHH. for exemple, where we wavelength in 340mm, and with the sound being absorbed. A LHH. for exemple, where we wavelength in 340mm, the sound of the monte

(in fact, it's not quite that simple as sound waves rarely hit absorbers head-on. Instead they arrive from various angles. The more oblique the angle of approach, the greater the thickness of material the sound wave has to pass through, meaning absorbers are in my studio; i can't live without them any more.

The granddaddy of absorbers – specifically engineered to deal, with frequencies below 100 or so ft2 – is the bass trap, an absorber-on-steroids with dimensions to match. Frequently sited in the corners of studios to take advantage of the oblique approaches of wavest, commercially-mad traps feature heavy membranes above the

TIP Some companies offer 'absorbers on legs' – absorbers that can be moved around. These are ideal if your studio is located in, for example, a spare bedroon and you need to be able to free up spare

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## WHERE TO PLACE ABSORBERS

You don't need to cover every available space with absorbers. In fact doing so is not recommended – you end up with a dark, oppressive sound that is unlikely to translate. Aim instead for a coverage of around 20 per cent of wall. space – you

But which 20 per cent? When deciding where to locate absorbers your aim is to reduce the effect of room reflections fror the perspective of the mixing position.

There is a tried-and-tested method of deciding where to place absorbers. Get a volunteet to move around the front of the crom holding a mitror held flat against the wall while you sit in your missing position. Wherever you see antelection of one of your monitors in the minror you need to place an absorber to reduce the reflections bouncing directly back at you.

In most rectangular rooms, these mirror points are found on the side walts between the mixing position and the speakers and behind and between the speakers. Look up and you'll find one on the ceiling too.

Don't worry about the floor – aside from the obvious impracticality, we're so used to hearing floor reflections that our ears naturally tune them out.

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Absorbers placed wherever a mirror would show a reflection of the speaker, including on the ceiling.

Where the back of the room is also reflective, placing absorbers there may help, although the more usual choice is a diffuser. If the back wall has shelves or curboards packed with stuff, that's normally enough to guarantee a good amount of scatter.

## SPEAKERS AND HEADPHONES

High quality headphones (page 260) are good for working late at night when you don't want to disturb others and for forensic mix work – they're strong on detail – but

recommended. Stereo imaging sounds very different on phones than it does on speakers and you may also find that bass frequencies vary according to how the headphones fit your ears. Which means by all means use headphones when you're on the road or for late-night writing sessions, but when it comes to mixdown proper, treat your mix to the benefit of a reasonable pair of speakers too.

Hi-fi speakers are generally design to flatter the music fed to them for consumer market. The same is true Although investing in acoustic treatment is almost always money well spent, if you're handy with a hammer and saw you can save yourself a good few hundred younds by

DIY diffusers are easy to make. Simply buy a solid (ply) backing board and affix differer height blocks cut from 100mm square timber – see Florian Meindl's home-made version

To make a DIY absorber, put 30 or 50mm mineral wool cavity wall insulation blocks into 100mm deep wooden frames where the wool is flush with the front of the frame so as to leave an air space behind. Cover the construction with anomers baller such as

Wear gloves and a dust mask when handling mineral wool or glass fibre the fibres cause ski and lung irritation.

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