

# Panel Beater

**Adrian Justins** visits an install where sound is king



## Kit Checklist

### Cinema Room

Runco VX-3000 projector with cinewide lens;  
Screen research 120in flat masking screen  
Procella P6 speakers x7  
Procella P10 active subwoofer x2  
Onkyo THX Pre-amplifier  
Sherbourn 7-channel amplifier  
Panasonic Blu-ray deck

### Lighting

Lutron Full lighting system  
Crestron Keypads control lighting and multi-room functions in house

### Control

Crestron CP2e processor x2; TPS-6x remote touch screen in cinema and lounge; TPS-6L (x9) wall mount touch screen in all main areas; MLX-2 (x7 pieces) remote controls; CNX-B12 (x27 pieces) 12 button keypads in every room.  
Kramer HDMI distribution x2  
Kramer audio/video switching

### Sources

Onkyo DAB tuner x2  
Kaleidescape video and audio server  
Sky HD distribution  
Crestron in wall ipod dock x2

### Amplification

Crestron AEE amplifiers (x3) for multi-room systems  
Onkyo TX-SR707 surround amplifiers (x4) for main living zones

### Speakers

Definitive Technology Ceiling speakers for Multi-room & main living zone surround systems  
PMC Wafer speakers for living room surround system  
Definitive technology Subwoofers  
Speakerscraft Waterproof monitors for garden



Private screening: discrete soundproofing keeps the noise in



Home automation at this re-modelled London mansion goes beyond the usual automated lighting and window coverings. The sound treatment renders the home cinema room both sonically supreme and virtually silent from anywhere else in the house.

Prestige Audio's Andy Hefft created the tiered levels for seating from concrete and chose specialised materials for soundproofing and acoustic purposes.

The interior is isolated from the building by three layers of soundbloc (board with a higher density core than traditional materials) between it and the ceiling. These are then isolated from each other and the building by a visco-elastic damping compound, which dissipates mechanical energy and attenuates acoustic waves.

The side and rear walls have numerous acoustic treatment panels. Some have variable impedance for absorption of low and mid frequencies, with high frequency diffusion to control early reflections and reverberation.

Acoustic treatment panels have to be placed where they are needed rather than where they look best, so Prestige Audio designed a third panel that was acoustically neutral so as not to affect the other treatments.

The final panel layout is based on the Fibonacci Sequence. As Andy says: 'We felt the occurrence of this sequence in nature produces a design that is both striking and pleasing to the eye. It creates a look that one would think is purely cosmetic, but has a major impact on how good this cinema sounds.'

The sound is indeed incredibly true, with low-levels effortlessly making the correct aural impact. So pleased was Prestige Audio with the room that the company submitted it for this year's CEDIA awards and has deservedly landed on the shortlist. >



**A**

### A Sweet dreams

Away from the dedicated cinema, the owners can relax in this teched-out bedroom, complete with in-ceiling speakers and wall-mounted Samsung HD screen

### B Multi-room madness

The kit rack house five Sky+HD boxes, ensuring HD movies, sports and TV can be watched all around the house

### C Movies on demand

The movie-mad owners filled the memory of this Kaleidescape server within weeks of the install being finished, so the memory is currently being expanded

### D Surrounded by sound

A quartet of Onkyo SR707 AV receivers provide the power for additional rooms in the property

### E US muscle

Although an Onkyo PR-SC5507 handles processing duties, power for the cinema room's seven-channel system comes from this 200W-per-channel amp from US brand, Sherbourn.

### F Project and serve

Runco's single-chip DLP VX-3000 projector is ceiling-mounted on a Future Automation lift

### G Hidden secret

Around one third of the panels are 'acoustically neutral', and installed to help maintain the overall look of the cinema room. Sound treatment materials supplied by Mathew Moule of RPG Europe



**F**



**G**



**D**

**B**

**E**

**C**