



A 'South of the Border' Cinema, Twickenham



Creating a Media Room fit for the Music Industry

When this music industry mogul needed a redesign and upgrade of his media room for critical music listening, as well as movies and gaming, he turned to Cyberhomes.

The brief was to revolutionise the room so they could watch movies, music videos and play the latest video games with the best optimised and video quality, for use by family and guests. In addition to premium AV performance, it needed to

be visually interesting yet maintaining a comfortable and relaxing environment.

Challenges

The room was fairly compact which created a number of acoustic issues

including potential bass boom from room modes and first order reflections from the hard walls and a large window to the right of the proposed projector screen position.

The room had existing joinery built into the front wall which reduced the room dimensions. Cyberhomes always strive to meet or exceed Dolby, CEDIA and SMPTE guidelines for speaker positions, projector throw, and seating distance; so the

corresponding screen format and size had to be considered and accurately calculated for the best experience.

The aesthetic and functional design was equally important which meant Cyberhomes would need to specify products delivering both the desirable performance and the right look that would work in the room—it demanded 'The A Team'.



Bespoke joinery allows the equipment rack to be installed flush to the wall and acoustic panels optimise the room performance



Savant Pro control system allows the cinema room to be easily controlled by either dedicated remote handset or the smartphone app

Room Solutions

A blackout blind in the window reveal was required to control ambient light with a semi-transparent curtain in front of it was added to deal with audio reflections, this curtain was mirrored on the opposite side wall to balance both visual impact and room acoustics.



Not all our cinema rooms feature an original Star Wars costume—Boba Fett protects one of the Meridian DSP7200SE speakers which is finished in a bespoke colour



Two Meridian DSW subwoofers reinforce bass

For bass control Cyberhomes installed several corner bass traps at the front of the room which also helped give the room a studio feel.

Cyberhomes developed several design concepts and demonstrated that removing the existing joinery, rebuilding the front of the room, then partly rebuilding the ceiling, side and rear walls would give the best results.

The room was designed using CAD and presented to the client for approval along with mood boards and 3D visuals prior to construction commencing.

To achieve the visual and functional aesthetic of the room Cyberhomes specified Vicoustic acoustic treatments

which offered a distinctive and stylish feel and ensured maximum performance from the audio equipment. The acoustic panels were visually enhanced with LED lighting and complementary decor completed the look—'Perfect'.

Studio-quality Audio

The audio and video in the room had to support the latest audio and video formats with 4K high-definition playback of both music and movies.

Renowned UK Hi-Fi manufacturer Meridian Audio was selected to meet the client's expectations—exploiting their sophisticated digital DSP technology and iconic active speaker designs to achieve a Dolby Atmos® 5.2.4 configuration.

A pair of Meridian DSP7200SE speakers, finished in a bespoke colour to match the room design, sit either side of an acoustically-transparent projection screen; providing the left and right channels for surround sound content as well as being able to play stereo music at sample frequencies up to 352 kHz in the latest MQA high-resolution format.



A sonically-matching Meridian DSP5200HCSE centre speaker was installed behind the screen with two Meridian DSW in-room subwoofers positioned half way down the side walls giving optimised bass coverage.

For the surround and Atmos height channels, Cyberhomes installed discreet Meridian active in-wall speakers which perform to the same exacting standards as their in-room speakers.

Blistering Video

The latest Sony VPL-VW870 laser projector produces stunning 4k images onto a 16:9 ratio screen complete with top and bottom electric masking.

This allows the screen size to be optimised for both 16:9-ratio music videos and video games and wide-format movies; whilst also providing the greatest horizontal viewing angle from the seating location, in accordance with SMPTE guidelines.

Once installed and the room completed, the projector was calibrated to ISF standards to ensure optimum performance from each of the available video sources.



Dedicated AV rack is inset into the bespoke joinery built by Cyberhomes in-house fabrication team.

Equipment Rack

One of the client's requests was to accommodate all of the cinema AV components in the media room. Cyberhomes achieved this by installing a 'pull out and rotate' Middle Atlantic racking system which was installed flush with the back wall. This allows easy access to the rear of the rack for future servicing and upgrading in the future.

To satisfy the client's love of video games Cyberhomes completed the room by building a storage unit directly below the screen. This cabinet houses multiple games consoles with additional storage for their collection of video games.

"Cyberhomes exceeded my expectations and have provided me the perfect media room for critical music listening, watching movies and music videos and the best possible gaming experience."

Homeowner, Twickenham

Project partners

+ Convergent AV (ISF calibration)

Installed Systems

Visual: Sony VPL-VW870 4k projector; Screen Research ClearPix 2.40:1 2.3 m screen with motorised side masking; Apple TV; Sky Q; Sony PS4; Xbox One; UltraHD Blu-ray player

Audio: Meridian 271 Digital Theatre Controller; Integra DRX-R1.1 Dolby Atmos processor; 2 x Meridian DSP7200SE speakers; Meridian DSP5200HCSE speaker; 4 x Meridian DSP320 speakers; 2 x Meridian DSP640 speakers; 2 x Meridian DSW subwoofers; Meridian 218 MQA music streamer; Vicoustics acoustic panels

Control: Savant Pro smart home system and app; Savant Pro remote control

Lighting control: Lutron QSE; Collingwood light fittings; 12 x iCAN lighting controllers