

# Vintage home cinema, London



### As part of a smart technology installation, Cyberhomes created a dedicated, vintage-style cinema room at a luxury London home.

The requirements for the home cinema were exacting. The homeowner wanted the room to recall the vintage cinemas he'd visited as a child, while benefiting from the latest AV technology—and the largest screen possible.

He also wanted the room to function as a 'theatre' for his children to put on shows for family and friends, and as a bar for entertaining guests.

Cyberhomes worked closely with the homeowner to achieve the ideal interior design before beginning construction. We produced mood boards and concept visuals to establish the overall look and feel of the room, and 3D animations to allow the client to visualise how it would look and feel



The motorised side masking allows the aspect ratio of the screen to be changed according to what is being watched. When the Kaleidescape movie player is the selected source, the masking automatically adjusts to the correct ratio for the movie being played.

To create the atmosphere of an old-fashioned playhouse, the final design featured luxurious red velvet seating and carpets; a gold ceiling inlay; an authentic-looking, red stage curtain; and a stage area in front of the screen, complete with artificial limelights.



Cyberhomes created a 3D animation, to show the homeowner how the finished room would look before construction started.

See YouTube: http://bit.ly/1SQtoBF

## Projection

Cyberhomes overcame a number of technical and logistical challenges when building the cinema.

Firstly, the desired screen size was larger than our viewing-distance calculations suggested would be suitable for the space.





The projector was ISF calibrated to ensure the best possible colour accuracy.

To optimise picture clarity, we sourced a 4K ultra high-definition (UHD) projector. This was fitted into a custom-built projection housing at the rear of the room.

We installed an image scaler, and had this calibrated to Imaging Science Foundation (ISF) specifications. This ensured maximum picture quality and colour accuracy when using any video source.

We also used motorised masking so that the picture is in the correct ratio (e.g. 16:9 or 2.35:1) when watching TV or movies.



The Kaleidescape Strato plays movies in 4K resolution and supports high dynamic range (HDR).

A Roku media player streams Netflix and Amazon Prime Video to the cinema screen in 4K, and a Kaleidescape Strato 4K movie player allows films to be shown in UHD. The specially calibrated image scaler converts all video sources to 4K resolution, even if the native content format isn't 4K.



Curtains open automatically at the start of the movie.

#### Acoustics

The room required significant acoustic treatment to maximise the output quality of the Dolby® Atmos® surround sound system.

Cyberhomes began by building a 'room within a room'. This meant we could isolate the sound from the rest of the house (and vice versa), and create the ideal acoustic conditions for cinema viewing. We installed 100 mm deep panels around the room, to absorb, diffuse and bass-manage different frequencies in order to create a perfectly acoustically-balanced space.

We selected an acoustically transparent Screen Research cinema screen, which allowed the left, centre and right speakers to sit in the ideal positions behind it. The surround and in-ceiling speakers are hidden behind acoustically-transparent fabrics, concealing all 13 speakers in the room.

As the equipment racks for the whole house were located in the home cinema, further acoustic treatment was necessary so that the cooling fans could not be heard.

"Cyberhomes built our home cinema to the most advanced possible spec.
The ultra HD (UHD) picture and 3D sound combination is truly spectacular—better than the real cinema experience."

Homeowner, London



The entrance provides a sense of drama as well as acoustic isolation.



#### Control

The cinema has a Savant Pro control system, which also works the AV, lighting, security and heating technology that we installed throughout the home.

Motorised curtains create a sense of drama, automatically opening when a movie starts to play. Curtains in front of the bar close when a film plays, and open again if it's paused or stopped.

Multiple lighting circuits provide different scenes for entertaining, movies, TV or theatre. A wall-mounted iPad allows users to preselect the desired mode, so that the room is ready as they enter. Once inside, the system can be controlled from iPads or smartphones.



AV racks (shown here with doors open) provide AV, automation and control for the whole home.



## Installed Systems

- Automation and control:
  Savant Pro
- -- Lighting control: Lutror Homeworks QS
- Screen: Screen Research 130: 2.35:1 with electronic masking

Acoustic panels: RPG Europe Behind The Scenes'

Sound: Integra 7.2.4 Dolby® Atmos® receiver, Triad speakers Triad Gold 15" subwoofers and Procella Audio amplifiers

Projector: Sony VPL-VW1100ES 4k with Panamorph anamorphic lens

Movie server: Kaleidescape Strato 4K

Scaler: Lumagen Radiance 4K Pro 4242





0333 344 3718 / hello@cyberhomes.co.uk / www.cyberhomes.co.uk

Cyberhomes Limited, Station Yard, Thame, OX9 3UH









