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Best Integrated Home
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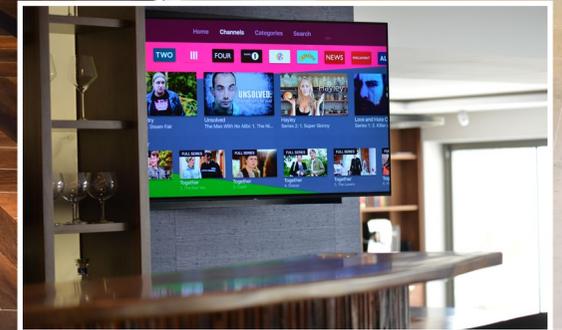
FINALIST

Best Home Cinema
EMEA

Integrated home, Hampshire



A fully integrated home automation system



TV in the open plan living space automatically rotates to face the area it was turned on from; and stows when not in use.



Looking to completely redevelop his house, a Hampshire property owner called in Cyberhomes to help realise his vision for a fully automated home.

Quality materials, luxury finishing and close attention to detail have created a beautiful home. The property features three bedrooms, an open-plan living area, a stunning cinema, a separate guest house and its own wine cellar. The centrepiece of the living area is a unique fish tank, with custom lighting effects.

Cyberhomes worked closely with the owner, architect, interior designer and building contractor to integrate smart technology throughout the main house.

As a result, the home boasts sophisticated lighting, security, climate control and AV capabilities, plus automatic doors between the main rooms. The entire system is controlled by the Savant Pro smart home system.

We designed and installed the technology with discretion in mind, so as not to affect the striking interior design. All equipment is located away from the living spaces, or stows automatically when not in use.

"The beauty of this installation is that everything worked so simply from the off—the whole family can use the technology without any training. I'd expected a few teething problems, but Cyberhomes made sure everything worked perfectly, and the Savant Pro control system makes it all very simple to use."

Homeowner, Hampshire



Large open plan entertaining space.

The owner had already planned the next phase of the redevelopment, which includes a swimming-pool complex. So Cyberhomes future-proofed the automation system, pre-wiring it for new features to be added further down the line.



TV rotates into view when in use and custom motorised blinds can create complete blackout when required.

AV

The impressive AV system features a cinema room and five TVs throughout the home, all connected to a 4K video matrix. The TVs can be simply controlled with a tap of the Savant Pro app, or from each room's Lutron wall plates.

Top-quality, multi-room audio throughout the property uses B&W in-ceiling speakers, with content streamed from an Autonomics media server.

One of the home's most striking features is the open-plan kitchen, dining, bar and snug area. To maximise sound quality in this large space, we added four discreetly placed in-wall Triad subwoofers to the in-ceiling B&W loudspeakers.

The bar and snug share a TV, which rotates according to which wall plate turns it on. We used a similar motorised bracket in the master bedroom, to allow the homeowner to watch TV in bed, or from the room's seating area.

We installed waterproof outdoor speakers close to the house, and infrastructure for more external audio zones, ready for when the garden landscaping is completed. We've also prewired all the TVs in the home with optical fibre cables, to allow quick and easy upgrades for future video distribution technologies.

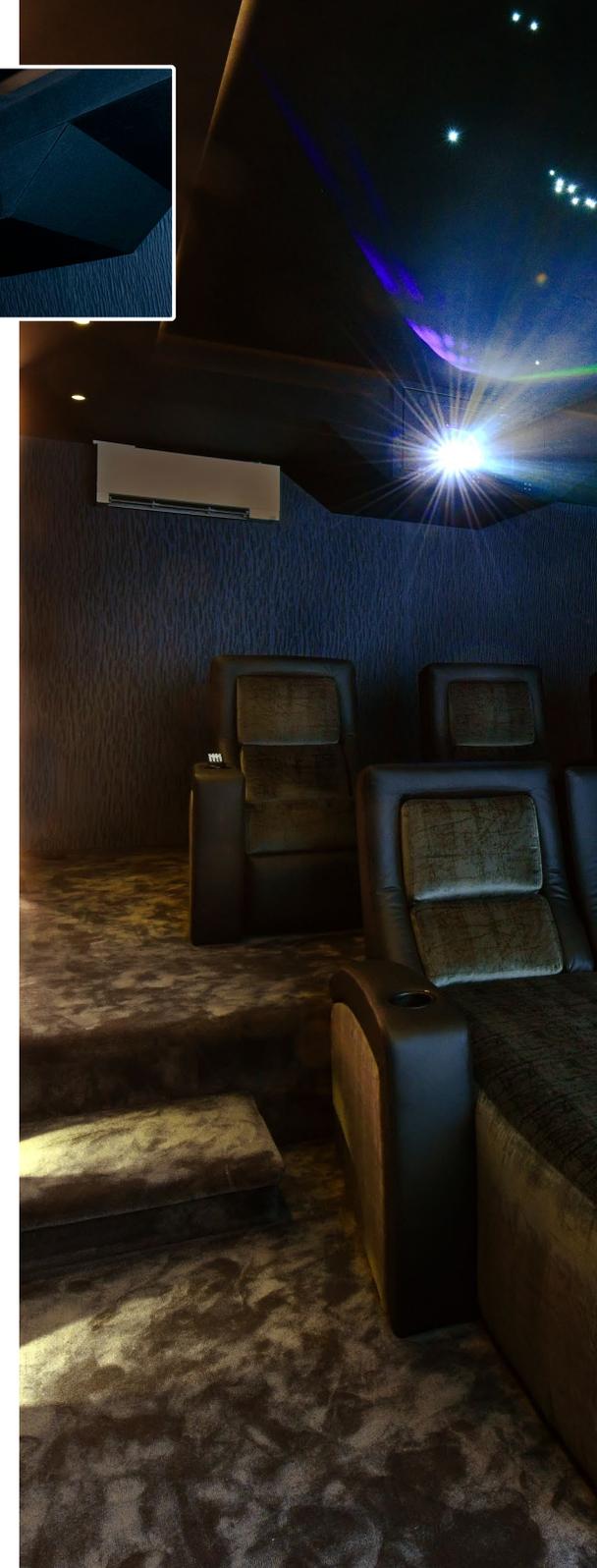
Cinema

The cinema room has its own dedicated sources for movie selection, as well as access to the video available to rest of the house, and a games console connection point.

High-quality visuals are provided by a large screen and a high-brightness Digital Projection 4K laser projector. We optimised these for watching sport during the day, general TV viewing in the evening; and for screening movies in the dark.

Achieving the perfect lighting conditions meant removing an external window to block out natural daylight. To preserve the aesthetic balance of the exterior of the property, we installed a fake window in its place, complete with double-glazing, a motorised Lutron blind and integral LED lighting.

The homeowner wanted the very latest in surround sound, so we installed a Dolby® Atmos® 7.1.6 system, consisting of 15 loudspeakers and four subwoofers. Given the sound pressure levels such a powerful system can create, we advised the building contractor on how to achieve sound isolation from the rest of the house.

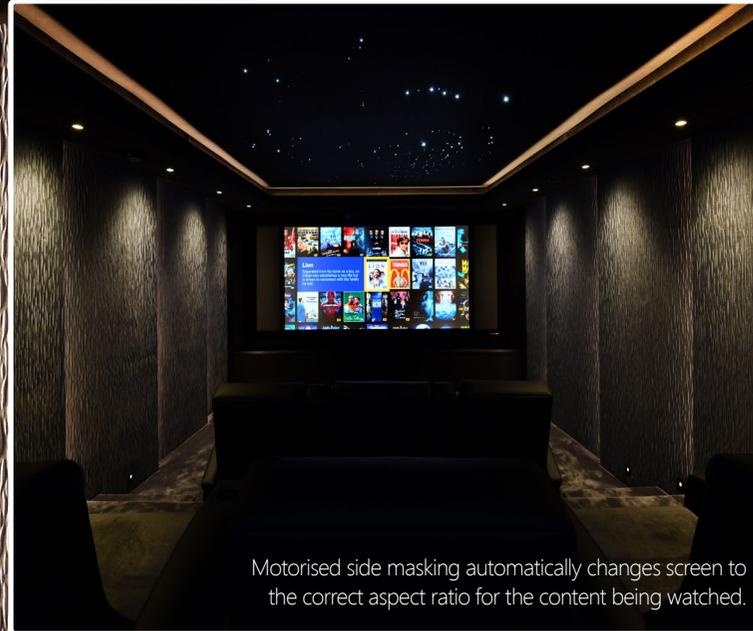




Lighting

Working to a design by Hampshire Lighting, we created a Lutron lighting system. This comprises 72 dimming circuits, 32 switched-lighting circuits and 26 wall plates. Each wall plate has uniquely engraved buttons to allow the family to easily switch on their preferred lighting scenes and functions for the room they're in.

Lighting automation is based on internal and external motion detection, daylight sensors and an astronomical clock. We also automated the motorised blinds and curtains for more than 30 windows.



Motorised side masking automatically changes screen to the correct aspect ratio for the content being watched.

Formal living room has large B&O TV and multiple lighting scenes for different moods.



"It was a great experience working with Cyberhomes. I dealt with the people who own and run the business from start to finish, and felt I could pick up the phone at any time. They listened to what I wanted, and were very pragmatic about where I could get best value. They were also extremely flexible as the project evolved."

Homeowner, Hampshire



Security

Built-in fingerprint readers do away with the need for keys, and can provide lock status updates.



Fingerprint access control ensures the home is always secure, without the need for keys.

And the family never need miss a delivery or visitor again, as the doorbell is integrated into the home's audio system. The bell chimes throughout the house, and any audio playing anywhere in the house temporarily pauses. The family can instantly see who's calling on the gate's video intercom, which is integrated into the Savant Pro system.

A Texcom intruder and fire alarm was installed by our security partner, then integrated into Savant Pro by Cyberhomes. This allows easy arming and disarming, and provides push notifications to the homeowner's Apple Watch.



Custom-engraved Lutron wallplates provide control in addition to Savant Pro remotes and touch screens.

Motion detectors turn on external lights, depending on the status of the intruder alarm. The alarm can protect just the perimeter of the property, or the whole house when the family are away.

As a CCTV system forms part of the next phase of the development, we made the security system ready for the installation of a network video recorder and pre-wired it for CCTV cameras.

Climate control

Underfloor heating throughout the property is managed by the Heatmiser system via Savant Pro, providing zone-by-zone control. There is also an air-circulation and heat-exchanger system to prevent energy waste, which allows the family to keep heating costs down.

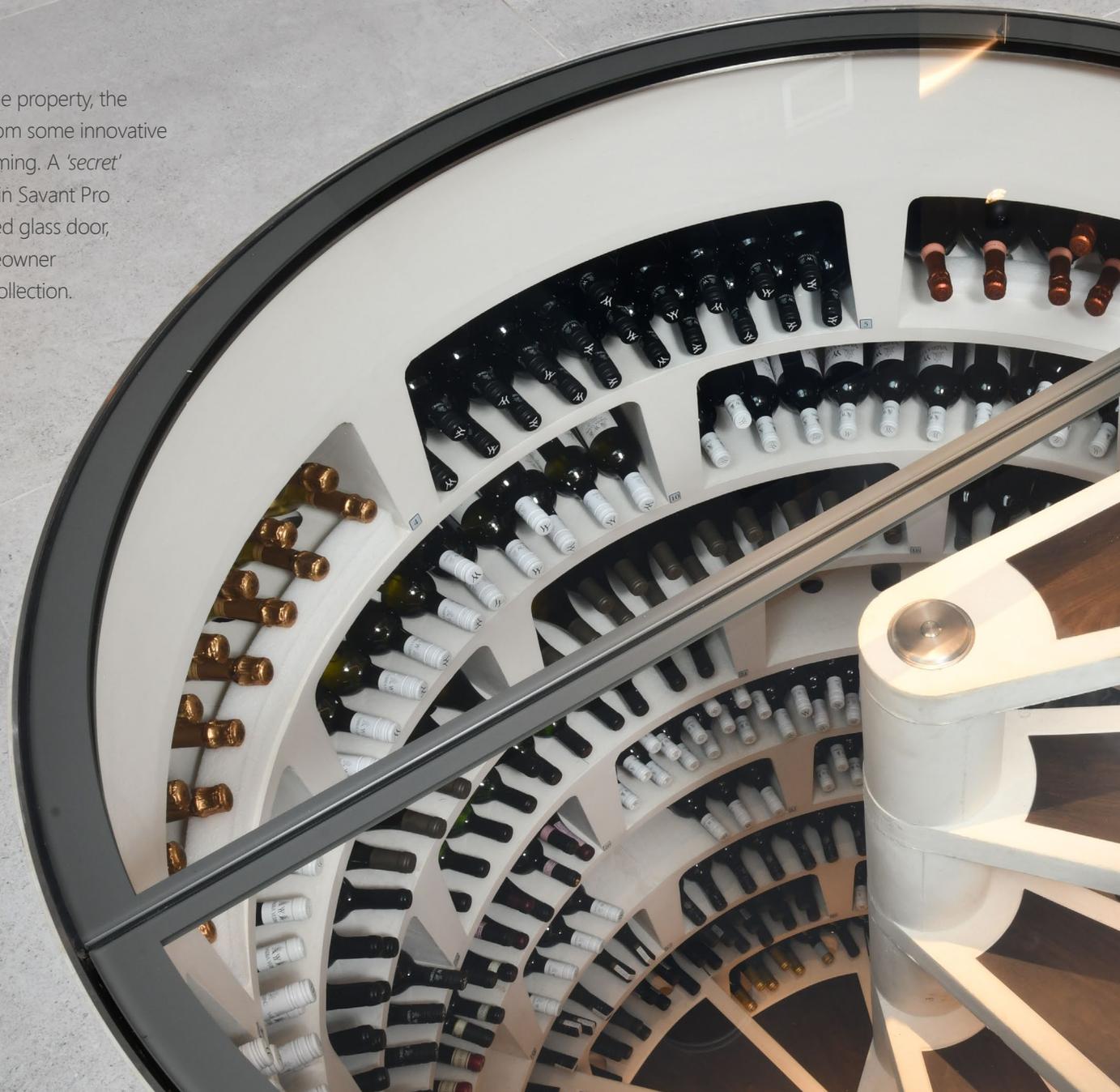
The air conditioning in the cinema—required to overcome the lack of natural ventilation—has a purge cycle that automatically refreshes the room after use.

Wine cellar

A unique feature of the property, the wine cellar benefits from some innovative automation programming. A 'secret' screen-tap sequence in Savant Pro operates the motorised glass door, so that only the homeowner can access the wine collection.



Our bespoke programming restricts who can access the wine cellar.





Dedicated AV racks keep equipment out of the living spaces.

Rack room

The AV racks feature an automatic safe-shutdown capability (*using Riello UPS*) in case of a mains power failure. Domotz network monitoring software notifies Cyberhomes if any devices aren't responding, and thanks to IP-controlled power distribution units (*by Packedge*), we can reboot them remotely if necessary. The homeowner can also remotely reboot devices using the Domotz Violet app.

A dedicated air-conditioning unit in the rack room, along with temperature probes inside the racks, continually maintains a suitable temperature. The AC unit is Wi-Fi connected, so can push notifications to Savant Pro if the rack temperature gets too high.

Project partners

- + Williams Lester (Architect)
- + Lauren Matthews Interiors (Interior designer)
- + Hampshire Light (Lighting designer)
- + Coleman Building Company LLP (Building contractor)
- + Desmond and Sons (Cinema stretched fabrics)

Installed Systems

-  Control: Savant Pro with 2 x wall-mounted touch screens and 4 x Savant Pro remotes
-  Multi-room AV: Atlona 4K 8x8 video matrix; Savant 32x20 audio matrix; 27 x B&W in-ceiling speakers; 2 x B&W outdoor weatherproof speakers; Autonomic music streamer; Oppo Blu-ray player; 2 x Apple TV 4K; 2 x Amazon Fire TV 4K; 2 x Sky Q 4K satellite receiver
-  Lighting control: Lutron Homeworks QS with 26 x custom-engraved wallplates and 4 x occupancy sensors
-  Security: Texecom Premier intruder alarm; pre-wire for CCTV
-  Climate control: Heatmiser
-  Home cinema room: Digital Projection Hermes II HighLite Laser 4K projector; Screen Research XLR-140 screen with motorised side masking; Kaleidescape Strato 4K movie server; StormAudio ISP 3D.16 Elite Dolby® Atmos® processor; 3 x James QX8320 speakers; 6 x James QX530 speakers; 6 x James QX520 speakers; 2 x James M122 subwoofers; 2 x James M1000 amplifier; Storm PA 16 ELITE 16-channel amplifier; 6 x bespoke Fortress Seating cinema seats
-  Network: 3 x Ubiquiti switches; 5 x Ruckus R500 managed Wi-Fi access points; Domotz network monitor