



CEDIA
AWARDS
2017

HIGHLY COMMENDED

Best Integrated Home
EMEA Level I

Contemporary family home, Lutterworth



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A homeowner wanted to rebuild his property to create the perfect smart home for his family. He turned to Cyberhomes to find out what was possible.

Our client was replacing a bungalow with a new, two-storey house spanning three sides of a courtyard.

He was looking for home automation for the property, and contacted Cyberhomes to explore the possibilities at the initial stage of design. We set about creating a state-of-the-art smart home—complete with an impressive home cinema—fully automated by a Control4 system.



Wall-mounted Control4 touch screens allow control of all the home's systems.



An 80" TV inset perfectly into the beautiful stone wall of the family room.

Entertainment

One of the owner's main objectives was for his family to be able to enjoy video and music all around the home.

The entertainment system features seven TVs, including an eye-catching 80-inch Samsung model set into a stone wall in the family room, and a 65-inch curved-screen Samsung in the master bedroom. A video matrix distributes content to the TVs—except for those in the children's bedrooms, which have restricted-channel Sky boxes.

Mid-way through the installation, Sky launched its new Sky Q 4K ultra-high-

definition TV system. We upgraded the main video sources to this system, to ensure the family could enjoy the highest-quality pictures available.

Fifteen audio zones allow the family to listen to their preferred music wherever they are in the house. Every room has discreet, in-ceiling speakers. The larger rooms have multiple pairs of speakers, so that music can be played in stereo throughout the whole room without having to turn the volume up.

Cinema

Cyberhomes designed and equipped a striking cinema room that never fails to impress. We worked closely with the homeowner's wife to create a space the whole family love.

We installed a 3-metre, acoustically-transparent screen and Epson projector. For maximum picture quality, a motorised blackout blind automatically shuts as movies begin. Content is provided by a dedicated Sky Q satellite receiver, Blu-ray DVD player, Xbox and Apple TV media player.

As with the AV system, the launch of new technology meant a mid-project upgrade: we fitted the cinema room with the latest Dolby® Atmos® 5.1.4 immersive sound system.

The homeowners provided the seating, so we calibrated the sound and picture quality to optimise performance from the seating positions. They also supplied a 'starfield' LED ceiling effect. We integrated this into the Control4 system, so that it comes to life automatically when the cinema is in use.



The cinema room has dedicated video sources as well as access to the sources distributed throughout the home.

Lighting

The property's 76 lighting circuits add a stunning visual dimension to the family's new home—inside and out.

An intelligent Lutron control system operates the circuits, and integrates with the home's automation technology. Through the Control4 app, the family can choose from a number of pre-set lighting scenes throughout their home, using either a smart device or the engraved wallplates. Or if they prefer, they can set the mood themselves by controlling each circuit individually.



Stunning lighting features are controlled via a Lutron lighting control system.

"We started working with Cyberhomes right at the very beginning of the project, so we were able to fully optimise the automation system."

Homeowner, Lutterworth



In-ceiling speakers provide music in every room.

Gentle, inset floor-level lighting comes on at night-time in the first floor gallery. The bathrooms and corridors have motion sensors, which automatically trigger the lights at night when needed. What's more, the many contemporary artworks around the home and garden are illuminated with their own specially designed lighting.

Security

The security system not only provides maximum safety for the family. It also offers quick and convenient access to the property, and remote CCTV monitoring for added reassurance.

The main gate can be opened from inside or outside by family members with an RFID fob. A wall-mounted touchscreen on each floor allows two-way communication with visitors at the gate, as does the Control4 app from a smart device.

Images from six external CCTV cameras and a recorder can be viewed on the family's smartphones wherever there's internet access. The lighting control system 'learns' the family's typical usage patterns, so that when the intruder alarm is armed, the lighting automatically simulates occupancy.



Video intercom at the gate can be accessed from a smartphone anywhere it has an internet connection.

Racks

On our recommendation, the homeowner allowed plenty of space for the rack room in the house design. This enabled us to put most of the equipment in the rack room, rather than in the living space. It also meant that cabling could terminate at a single location, making connection to the rack quicker, easier and more reliable. And it makes for easier access to the racks for maintenance.

Cyberhomes provided heat output calculations for the rack room, and determined the amount of cooling required, so that the client could obtain the right air-conditioning system.

Most equipment is powered by a Pakedge managed power distribution unit (with UPS backup in case of a power failure). This allows individual devices, such as a crashed Sky box, to be rebooted by the client or by Cyberhomes, without having to access the rack.



Dedicated plant room allows easy access to the AV racks for service or upgrades.

Project partners

- + Tony Holt Design (Architect)
- + MJE Contracts
(Construction and Joinery)
- + Richard Voller (Lighting Design)

“Cyberhomes were great and spent a lot of time explaining how everything works. The system is so easy to use that both sets of grandparents, who are in their 70s, can even work it.”

Homeowner, Lutterworth

Installed Systems

-  Automation and control: Control4
-  Multi-room AV: 7 TVs (Samsung and LG); 2 Sky Q + 3 Sky HD satellite receivers; 2 Apple TV; 30 in-ceiling B&W speakers; 2 8-zone Control4 amplifiers; Wyrestorm video matrix
-  Security: 6 Lilin CCTV cameras; Lilin NVR; Texecom intruder alarm; 2N intercom
-  Climate control: Heatmiser underfloor heating, 19 zones
-  Lighting control: Lutron Homeworks QS with 24 custom-engraved wall plates; Lutron motorised blackout blind
-  Home cinema room: Epson TW9200 projector; Screen International 3m acoustically-transparent screen; 3 Definitive Technology LCR speakers, 2 Definitive Technology surround speakers, 4 Definitive Technology in-ceiling speakers, 1 Definitive Technology subwoofer; Integra processor/amplifier
-  Wi-Fi: Draytek and Ubiquiti



This project was 'Highly Commended' in the 2017 CEDIA awards for 'Best Integrated Home under £120,000', and the cinema is a 'Dream Theatre' in issue 274 of Home Cinema Choice magazine.