



Smart architecture, Henley-on-Thames





# A luxury home that got smarter year on year

**From the moment Cyberhomes demoed the Savant Pro platform to the client at an exhibition, they knew it was the perfect control and automation solution. The beautifully-designed user interface is a perfect match for the luxury high-end architecturally stunning home they were building for a retiring couple.**

The project was completed in several phases over a number of years, so it was critical that the cable infrastructure was carefully designed at the outset to ensure it had the capability to meet the demands of all the technology of the finished home; yet was still a usable system as the various phases were completed.

## In the right light everything is extraordinary

Working closely with the lighting designer meant there was a lot of emphasis on ensuring that the proposed solution was able to control all the amazing lighting circuits to maximum effect. This was no ordinary lighting design. With 120 Dali circuits, six colour change DMX circuits plus a further eight switched and twelve

phase-dimmed circuits it was clear that the reliability and flexibility of a Lutron lighting control system would be essential. This was integrated into the Savant system along with five PIRs for automated triggering of lighting.

And control of daylight was equally important. There are 28 motorised blinds, all recessed to suit the modern design of the house. The custom-engraved lighting keypads from Lutron's architectural Palladiom range were also recessed. In addition there are three Savant wall-mounted touch screens that can access all the home's technology in addition to the lighting.

The unique building design gives the appearance of floating in space (a flood plain necessitated the building raised on stilts) and the clever use of lighting, both indoors and outdoors, reinforces that effect both day and night.

A key benefit of Savant Pro is the ability for the homeowner, who wanted an easy-to-use and easy-to-learn system, to create their own scenes without requiring any further programming assistance. For this project that was a huge advantage as it allows the homeowner to set all the lighting levels just right throughout the home and then save the scene for instant recall in the future.

## Managing the climate

Similar attention was paid to the detail of the climate control. In this instance

we weren't only considering the 16 underfloor heating zones, but also seven zones of air conditioning throughout the property as well as natural ventilation via a series of motorised skylights. It's very easy for heating, cooling and ambient all 'fighting each other' to reach the desired temperature in each room. To avoid this we turned to a building management systems from North Building Technologies to ensure the systems all co-ordinated in harmony. This was also integrated into Savant to allow skylights to be opened to allow fresh air into rooms without



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Motorised skylights allow fresh air in—the climate control system automatically compensates confusing the climate control system.

As this type of integrated solution was relatively new for North, Cyberhomes engineers invested considerable time with them prior to final system design to ensure it would all work seamlessly.

## Entertainment and Security

A relatively modest AV solution by Cyberhomes standards. An Atlona 6x6

video matrix feeds the three TVs around the home ensuring they can each access the shared video sources—two Sky Q satellite receivers and an Apple TV media player. An added complexity was the requirement for the TVs to be from Bang and Olufsen which meant a Beolink gateway was required for Savant integration.

The four Hikvision CCTV cameras can also be viewed on any of the TVs (and any device running the Savant Pro app) along with recorded footage from the NVR.

Three Savant intercoms provide a video

link to the exterior of the property and can be answered on the touch screens or the homeowners' personal smart devices. An integrated Texecom intruder alarm keeps the property secure.

## Equipment rack

Whilst a dedicated space had been reserved for the AV and security equipment rack, this room also housed all the lighting dimmer packs that generate a lot of heat. To ensure everything remains

comfortably within their ideal operating temperatures this room also has air conditioning under the automated control of the North BMS.

## Project partners

- + Rob Morris—Morris electrical
- + Max Narula—Electric Blue light and design



Bang and Olufsen televisions suit the exquisite room styling



Scenes allow discrete LED lighting to quickly change the ambience of the home's spaces





## Installed Systems

-  Automation and control: Savant Pro with three wall-mounted touchscreens and app for smartphones and tablets
-  Multi-room AV: 3 x B&O TVs; 3 x Sky Q satellite receivers; Apple TV 4K; Atlona 6x6 4K video matrix; B&O Beosound 600 CD player
-  Security: 4 x Hikvision CCTV cameras; Hikvision NVR; Texcom intruder alarm; 3 x Savant video intercoms
-  Climate control: North building management system with 16 x underfloor heating zones and 7 x air conditioning zones
-  Lighting control: Lutron Homeworks QS with 15 custom-engraved Palladiom wallplates; 156 x lighting circuits including 120 x DALI circuits; 6 x DMX circuits; motorised skylights
-  Network: 4 x Ruckus R510 managed Wi-Fi access points; 2 x Ubiquiti network switches; Draytek Vigor 2862 router

*"Cyberhomes were the perfect match for this architectural project, their attention to detail and willingness to come up with bespoke solutions was superb. The project build lasted a few years, and their support was 100% throughout the project.*

*We are extremely pleased with the Savant and Lutron System, which works flawlessly day-to-day. We put all the electrical items including AC, Lighting, Intercom, Heating and CCTV into Savant and it is really nice to have everything in one place. Thank you to Cyberhomes for their professionalism and dedication over the past few years."* Max Narula, Henley on Thames