



### Case Study Features:

- Integrated touch panel home control.
- 18 Seater Cinema
- Bowling Alley and Games Room
- Study / Library
- Finger Print Security System
- Fully integrated lighting system

“ Our plan was for a family home with an all-in-one system that would support and control every aspect of our home and security. After being recommended we decided to call upon Smartcomm to see what they could do and we weren't disappointed.

The design Smartcomm put to us was instantly liked and a system that covered all that we had asked for and more. They listened to our requirements and absolutely followed through.

Smartcomm worked closely with our architect, interior designer and other contractors and delivered a system that has exceeded our expectations. We will have no hesitation in recommending them to family and friends.

- Home Owner

Nestled in the heart of Surrey, this magnificent Family home features an 18 seater home cinema, bowling alley and complete home control at the touch of a button, making Smartcomm proud to present this technological dream. The owners of this beautifully designed home called upon Smartcomm on recommendation to design and install a state of the art AV and security system which was practicable and convenient which can be used from any area of the house.

Smartcomm created a system that could rival the best, with an all-encompassing Crestron solution, along with some of the best gadgetry on the market giving the owners peace of mind and total control from the front gates to the depths of the cellar.

At the heart of the house an ingenious Crestron system has been installed giving the owners full control of the lights, blinds, audio, video, climate and total home security, for the entire house. Designing a control system for this vast home was no easy feat, but with Smartcomm's experience and knowledge the outcome of this design was astounding.

With 18 chic Crestron TSW-750 touch panels at the front end of this system, it is no surprise this solution is a delight to use from any corner of the house. These 18 panels are conveniently positioned around this stunning property including the swimming pool area, games room, cinema in the basement, the ground floor, first floor and the penthouse.

With four floors of house to control, 12 additional Crestron MTX-3 2.8" handheld wireless touch screen controls were also installed to give that extra level of convenience. The MTX-3 gives the homeowner a portable version of the integrated TSW-750 including the homes CCTV cameras.

Both the Crestron TSW-750 and the MTX-3 gives the user total control of all aspects of the house.



## Technological Highlights:

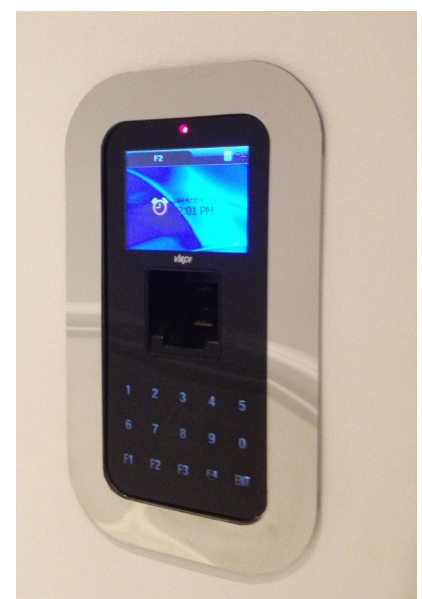
- **Crestron TSW-750 Touch Panels**
- **Crestron MTX-3 wireless handheld touch screen controls**
- **Intruder Alarm System**
- **Finger Print door Entry system**
- **Safe Room**
- **Digital Projection Titan 1080p**
- **IMAGE ArtMasque Motorised 4 way Masking Projector screen**
- **Bespoke Acoustic Wall Paneling**
- **B&W Speakers**
- **Over 270 Lighting Circuits**
- **Mood LED Lighting**
- **Climate Control**

From the moment you drive up to the grand gates this proud standing home is a fine example of a house of the future, with a top of the range security system controlling every entry point with the touch of a finger. With the security system taking a center stage in this system design, it's no wonder that the owners sleep sound in their home. All security aspects of the home are covered, with a video and audio entry gate system ensuring the guest are seen and heard before access is permitted by the home's occupant. In this extensive property it was important that the security gates could be answered from anywhere in the house, so Smartcomm were happy to create a system that would allow the house's residents to see or hear any guests at the external gates on any of the stylish Crestron TSW-750 touch panels or even pull the gate image up onto the TV or cinema screen for a better view.

With an impressive 270 circuits of Lutron lighting, Smartcomm have designed a lighting solution that illuminates every corner of this property from the grand hallway, the sunken courtyard to the twinkling lights of the Cinema. Throughout the gardens and the home every detail has been considered. Visonic SPY 4 PIR motion sensors were also installed to automatically turn the lights on when the sensor is triggered and conveniently turn the lights off after a set amount of time, thus helping to conserve power in rooms which are not being used. With security being a top priority for this home it was important that the lighting was tied in with the security system. Connecting the security entry system to the lighting system, enabled the lighting to highlight any areas which were in use and to illuminate the gates on the arrival of any guest. All the outside lights are controlled by a time clock which was built into the system, with the light timings being designed with the homeowner's illumination desires in mind.

Alongside the Crestron TSW-750 the Lutron lighting panel also gives the user control of the blinds, setting the blinds to the users chosen level. Whether it's for total darkness or a little bit of privacy the blinds all can be controlled at the touch of a button.

With ever increasing concern for energy conservation it is no wonder that we are now turning to technology to help us and it is no different in this magnificent house. Without a radiator in sight this sleek home's climate can be controlled to the homeowners desired temperature from one simple action. It has also been conveniently designed to allow the user to turn the heating or Air-con of in a room if it is not being used, giving you that extra control over your energy conservation. With the climate controls situated seamlessly around the home it is easy to select the perfect temperature from any of the Crestron controls.



**No better way to feel secure!**



With an Audio Visual system that was to integrate seamlessly into this home, with each room personalised to the desired needs of the occupier, Smartcomm was able to come up with practical but visually impressive solutions. From the smaller 42" TV screen situated in a number of guest rooms and utility areas to the impressive 65" screen situated in the family room giving a perfect excuse for the family to get together and watch their favourite programmes. With the number of screens in this home it was just as important to design an equally impressive entertainment system. With the option of Sky HD, Apple TV or a Movie which has been stored in the ingenious Kaleidescape system, this solution allows you to watch what you want, when you want and wherever you want. Whether you started watching your favourite programme in one room, this system would allow you to continue watching the same programme from the same place anywhere else in the house, even in the bath, with the flush Aquavision TV's . For the movie enthusiast in house the Kaleidescape system gives the user access to hundreds of films, with five Kaleidescape M500 Blu-Ray players, a vault and a server, giving the perfect solution for instant access to the entire movie and music collection from anywhere in the house, without hundreds of DVDs cluttering up the house. It may seem like a lot of equipment to control with hundreds of remotes lying around the place, but with the Integrated Crestron system, every visual option can be done from the touch of one of the integrated control sources.

With the visual aspect only making up a slice of the entertainment system, it was important not to forget the audio system. The audio system was designed so that each room had the right amount of sound, bringing music to your ears. From the games room to the top floor penthouse, the audio system has been carefully designed to enhance each and every room, with specifically placed B&W speakers and not forgetting the subwoofers. With over 100 speakers installed throughout the house, Smartcomm have made sure no corner has been neglected.



The cinema was to be the main attraction for all the family, guests and friends. The design had to incorporate enough seating to host at least 18 people and to provide each person with the most luxurious cinema experience, no matter where they sat in the room.

A comprehensive room design and layout of the cinema system was put together, making best use of the space and delivering the best performance possible. By introducing three rows of tiered seating Smartcomm's design gave every electric reclining leather chair the very best view of the screen. With the size of the room and the amount of chairs needed it was up to Smartcomm's expert designers to come up with a seating solution that would comfortably fit the 18 seats and still give easy access to the doors. With the desired 6 seats per row it was decided that it was necessary to remove one of the top tiers arms rests per chair to enable enough space for the entrance door to open fully.

To give the cinema that magical feel without interfering or distracting the eye, a stunning lighting design was installed giving the cinema the perfect ambience. Dimmable wall light were installed to deliver the functional lighting, whilst a star effect and blue LED lighting on the ceiling gave the room a magical atmosphere.

As part of the client's wish for stylish yet functional cinema room, Smartcomm looked at the use of different fabrics such as leather for the acoustic panels that surround the room, with Dark and neutral colours being explored to help the light absorption. The panels also conceal two entrance doors, maintaining a sleek interior as well as sound-proofing the room so noise does not travel into the rest of the home.

The master control for the room's components sits in the Crestron TSW-750. The remote provides superb control for the cinema system; from automatically adjusting the screen's aspect ratio to controlling the accompanying sources including SKY HD and the Kaleidescape system which allows storage for up to 320 DVDs with additional storage facilities for expansion.

An ImageArtMasque Motorised 4 Way cinema screen takes pride of place in the room. The 4 metre frame has been built with linear-glide masking system, framing the screen with a cinematic black border that is flexible to a range of aspect ratios. Precision motors ensure greater accuracy for masking positions and can all be controlled by the Crestron interface, making movie viewing a breeze. Whether you are watching a 2D or 3D film this screen is designed to give the viewer the perfect picture. To complement the screen a Digital Projection 1080P-REF has been installed, delivering a stunning 20,000 Lumens output and is the World's First 3-Chip LED digital projector. Incredibly compact and efficient for such brightness capabilities, the TITAN incorporates active 3D connectivity, Intelligent Lens Mount, ColorMax calibration technology, giving Smartcomm the perfect projector solution.

To finish the perfect cinema experience a selection of Pro Audio solutions were installed. 8 Pro Audio TEC SCRS-25iw's were specifically angled in the ceiling to give each cinema guest the perfect audio experience. To support the in-ceiling speakers, 3 Pro Audio TEC SCRS-15sm, 4 Pro Audio TEC Subwoofers (15" & 18") and 7 Pro Audio PMA (9900T / 9944T / 4444T / 2222T) were installed. The sleek unimposing style of the Pro Audio selection means they slot into the walls with minimum fuss, whilst sustaining the sophistication of the décor. The Subwoofers were discreetly installed in the floor towards the back of the room and hidden behind the screen.

Behind every hi-tech AV system is a powerful rack of equipment keeping it all running smoothly. Due to the size of the rack's, and again in keeping with the client's wishes, we looked at where the control systems could be integrated neatly away from view, whilst easily allowing access for maintenance and upgrades. The Smartcomm team were in a fortunate position that two spaces were available for us to customise, providing a hideaway for amps, processor, Kaleidescape server and Sky HD box. Smartcomm fitted the wiring from the racks through discreet holes in the back of these spaces allowing connection to devices in the storage cupboard. The hidden path of the wiring ensures it cannot be seen. Doors matching that of the rest of the home means that the adapted space does not stand out and the racks are hidden from view, although are still moveable for easy 360° access.

Smartcomm Bringing Innovation Home!

**Project Duration:**  
18months (including building works)

**Completion Date:**  
December 2013

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