

# Essential INSTALL

## MAGAZINE

The new magazine for the custom install industry

Crestron Awards Special



### *Essential Install* presents the winners of the Crestron Integration Awards 2009

#### Categories for 2009

##### RESIDENTIAL CATEGORIES

- INNOVATIVE DESIGN
- HOME SWEET HOME CINEMA
- ULTIMATE CONNECTED HOME - below 250K
- ULTIMATE CONNECTED HOME - above £250K
- BEST HIGH RISE LIVING
- BEST INTEGRATED HOME
- BEST INTERNATIONAL CRESTRON HOME
- BRILLIANT LIGHTING DESIGN

##### COMMERCIAL CATEGORIES

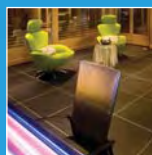
- BEST EDUCATION PROJECT
- BEST CORPORATE INSTALLATION
- BEST LEISURE PROJECT
- BEST MEDICAL INSTALLATION
- BEST TRAINING & CONFERENCE FACILITIES

#### FEATURED INSIDE:

**MAVEN:  
CLIFF-TOP iPad**  
A unique and environmentally friendly property



**PRESTIGE AUDIO LTD:  
SWISS CHALET**  
A stunning chalet with impressive energy management credentials and bags of character



**CREATIVE HOME CINEMA:  
KENT FAMILY HOME**  
In this complete project, Creative Home Cinema delivered a comprehensive system in a modernisation Edwardian family home



# CRESTRON INTEGRATION

## AWARDS 2009!

As the proud official media partner to the Crestron Integration Awards, *Essential Install* presents an exclusive full run down of this year's winners, descriptions of the installs and the judges' reasons for their choices.

### RESIDENTIAL CATEGORIES



■ Prestige Audio had to cope with a strict interior design brief to take the gold in the Innovative Design category

#### INNOVATIVE DESIGN

##### PRESTIGE AUDIO LTD: SWISS CHALET

A stunning chalet with impressive energy management credentials and bags of character won Prestige Audio recognition from the judges for a highly imaginative and technically courageous solution.

The client may only use the property for 2-3 months a year, but that didn't mean that the interior designer wanted to compromise on its specification. The team from Prestige Audio had to design and deliver an integrated system that befitted this stunning property, yet did not detract from either the amazing views or the interior designer's vision.

The solution was to design a Crestron system which is unobtrusive, yet delivers the required big screens and big sounds in all of the chalet's bedrooms and offers remote access/monitoring of the system (including the CCTV and HVAC system) from the UK.

The two main bedrooms on the top floor have 5.1 surround sound systems, but as the views from these rooms are breathtaking, the plasmas drop from the ceiling, controlled via Isys i/O WiFi touchpanels.





■ Imagine This UK branched out to deliver a stunning install with its Forest Drive Theatre project

## HOME SWEET HOME CINEMA IMAGINE THIS UK: FOREST DRIVE THEATRE

The winning entry in this category is a great example of a true Crestron Theatre. Imagine This answered the client's brief for a high definition THX ISF reference home cinema for his family to enjoy, but offering the same control system as the rest of the property. The team programmed an in-wall docked TPMC8x to allow access on fingerprint recognition, initiating the 'start your seats' program, dimming the lights and starting the entertainment.

The attention to detail which Imagine This applied to this project was evident throughout the property. With the client's brief, which included lighting control, multi-room audio and video, intercom, security and HVAC, came an intricate collection of systems needing to be kept together in a smart and easy to access manner. Underfloor heating, air conditioning, audio and video switching to lighting control all needed to be accommodated.

Imagine This applied rigorous standards when installing all of the components of the home, from the AV rack which was constructed in the company's workshop and then installed and tested by the integrators, to every keypad and touchpanel which was connected and mounted with care and precision. Imagine This also gave due consideration to the future accessibility and maintenance of the system, giving each cable the appropriate amount of slack.

From the inclusion of Crestron iPod docks to Crestron tuners, this home theatre truly packs the full Crestron arsenal. The fun doesn't stop there, the seating has tactile transducers fitted, which react to the base parts of the sound track.

## ULTIMATE CONNECTED HOME – BELOW £250K MAVEN: CLIFF-TOP iPad

This unique and environmentally friendly property caught the judges' eye in this category. A newly built, open plan, two-bed apartment, overlooking award-winning beaches on Bournemouth's south coast, Maven built a Crestron solution around the Adanto Audio Expander (AAE), a high-performance audio distribution processor with integrated multi-channel amplifier, to satisfy the client's requirement for an expandable system. The architect for the project wanted a system which could easily be expanded to add control of future elements to include underfloor heating with room feedback, and control for the bespoke sliding external louvres for shading to glazed areas.

Maven's design encompasses HD video distribution, discreet audio solutions and automated lighting and control system. In addition to the wireless TPMC8x, and calling upon the recently launched Crestron application, an iPod, housed in a custom made wall-station, is Crestron-enabled for room selection, AV source control/property-wide lighting control, hot-tub control and two-way feedback control of the automated sky-light, just in case the rain detection unit doesn't close it in time!



■ Maven won the judges's vote by building a highly capable and expandable system in this new build project

■ T&T Automation had to contend with the need to use existing cable architecture in this large retro-fit project

## ULTIMATE CONNECTED HOME – ABOVE £250K

### T&T AUTOMATION (EUROPE): HILLSIDE HOUSE

The winning project in this category went to T&T's work at Hillside House, a whole house refurbishment in an idyllic setting in South East Essex. The project entailed utilising existing cable architecture wherever possible and was therefore an on-site challenge. This was ably met by T&T's team however, as was the need to house the new equipment within an existing data cabinet which necessitated a fair amount of customisation to achieve.

The house includes a stunning 'infinity edge' swimming pool with waterfall and a separate underground wet area which boasts a steam room, herbal room, foot spas, ice machine and heated loungers – all of which are comprehensively controlled via the floor plan GUI on the Crestron in-wall touchpanels installed within both areas, or indeed from any touchpanel throughout the house.



## BEST HIGH RISE LIVING

### CUSTOM CONTROLS: BEETHAM TOWER

This amazing project is truly breathtaking, and a deserved winner – a penthouse sitting atop the Beetham Hilton tower on Manchester's Deansgate. This high rise home covering 12,000ft<sup>2</sup> and including a 4,000ft<sup>2</sup> indoor garden. Spanning the entire top floor of the tower, the duplex apartment with indoor Olive Garden and Swimming Pool, Sauna and Steam Room complex has to be the premier penthouse in Manchester and in the tallest residential building in Europe.

The Crestron system also controls the building management system which handles all heating and ventilation in the home, from the underfloor heating, swimming pool temperature control to the ventilation. And of course, Custom Controls' design controls a state of the art multi-room audio video system, the hub of which is a DVD and music system which allows the client to watch films anywhere in the apartment (including the gym) in addition to listening to the music system.

The main rooms of the penthouse benefit from full Crestron lighting control enabling scene setting and control from any location. Lighting control in the cinema automatically dims the lights when a film starts and there is a one button command which gently illuminates the living room and the garden to show the apartment at its best. Crestron touchpanels also show live CCTV images from around the property and security system information ensuring complete peace of mind. All cameras are recorded allowing remote viewing when desired.



■ High Praise came from the judges for Custom Controls' Beetham Tower install





■ The client for this Creative Home Cinema project says the applications are so much fun that it is like being on holiday all the time

## BEST INTEGRATED HOME CREATIVE HOME CINEMA: KENT FAMILY HOME

In this complete project, Creative Home Cinema delivered a comprehensive system designed for a couple of serious music lovers with a passion for karaoke! The complete modernisation of the client's Edwardian family home, presented the opportunity for Creative Home Cinema to deliver a solution that enhances the quality of everyday life with the use of Crestron total home technology.

A Crestron TPS4000L in the kitchen allows for full house management at the hub of the home. From here, the client can control the automated blinds, lighting, heating and gate entry, whilst a video link makes it possible, via the CCTV system, to monitor the children when they are in the indoor pool, and catch up on the golf.

Speakercraft in-ceiling speakers deliver quality surround sound throughout the house and no fewer than four Kaleidescape servers provide access to a comprehensive library of music and movies. The main sitting room boasts a plasma screen for everyday television viewing and, to satisfy the client's desire for a home cinema experience, there is a full projection system with 5.1 surround sound. A plasma screen recessed behind a clear sheet of glass prevents condensation spoiling viewing in the swimming pool room and, one touch of the Crestron control system, and the pool floor is raised ready for karaoke-based partying!

Creative Home Cinema's design satisfies the client's requirements that the system be easy to use by all the family, and it certainly delivers! A special feature of the programming enables each person to access their personal choice of entertainment by logging onto any one of the 10 two-way touchpanels with their unique password. This means a favourite preset channel can be selected in different locations and viewing can be completed.

## BEST INTERNATIONAL CRESTRON HOME AVNET TECHNOLOGIES: KILLEEN CASTLE, IRELAND

Set in the historic grounds of one of Ireland's oldest and finest 12th century Norman castles, the 600-acre estate at Killeen Castle is home to a unique development of premium residential properties featuring advanced technology, set within the magnificent Jack Nicklaus Signature Golf Course.

Avnet specified and designed a Crestron control system integrating audio, video, lighting, security, HVAC, access control Cisco IP phones, IPTV, watering systems and concierge facilities. Residents can do everything online from ordering a movie to booking a tee time or spa treatments.

Lighting control was kept simple upon entrance to all rooms, with dimming and scene control only on the room touchpanels. For this reason, the client chose the new Crestron Cameo keypads, which also control the automated blinds and curtains.

The fully-scalable integrated system controls 18 zones of audio distribution, with an initial four sources, and 14 zones of underfloor heating, controlled via Crestron thermostats located at the local manifold areas and remote room sensors. Future integration will be expanded to text alarms, security, fire alarms and estate barrier controls.

■ Avnet Technologies achieved success with this project within the prestigious Killeen Castle in Ireland



## LIGHTING DESIGN

A new development for this year is the awarding of a separate lighting award independent of the residential categories.



Photo Courtesy of John Cullen Lighting and Andrew Beasley Photography Copyright 2009.

### BRILLIANT LIGHTING DESIGN KENSINGTON HOME TECHNOLOGY: CHELSEA PROJECT

The triumphant entry in this category was from Kensington Home Technology for its work on the Chelsea Project. An example of creativity with lighting design, the project encompasses the design, specification, supply and installation of a cutting edge fully integrated lighting and AV control solution.

The main requirement was to control 350 circuits (individually or as pre-set scenes) of lighting from any of the seven Crestron touchpanels and keypads with complete ease, no matter who operates the interacting system. The client is able to adjust the individual circuits to create the required mood and then save it into the system by pressing the scene button for five seconds.

The project also includes full multi-room audio via the Crestron AAEs, DAB radio and Crestron iPod docks. TV is provided through two Loewe screens with Blu-ray players and two hanging window screens which are switched using Crestron Quick Media. The whole installation was considered to be a great example of what is achievable with awesome lighting design and Crestron lighting control.

■ Kensington Home Technology delivered attractive design and integration with Crestron technology to be awarded the Lighting Design Award





## COMMERCIAL ENVIRONMENT

In a newly introduced category this year, 2009 sees the first Integration Awards in the commercial arena.

### BEST EDUCATION PROJECT REFLEX: IMPERIAL COLLEGE LONDON

Reflex triumphed in this hotly contested category with its work on an extensive project for Imperial College London. The key requirement for this install was to achieve standardised AV facilities in 38 lecture theatres across the South Kensington Campus, whilst allowing flexibility to tailor the exact specification to the need of individual departments.

Each of the 38 lecture theatres is equipped with a projector displaying images from two PCs, DVD and visualiser on to a main screen. Some departments chose to add a second projector giving them the ability to display different images side by side. There was also a requirement for a high quality audio system capable of transmitting sound from the input devices and from a lecturer's microphone, routed through the existing induction-loop amplifier.

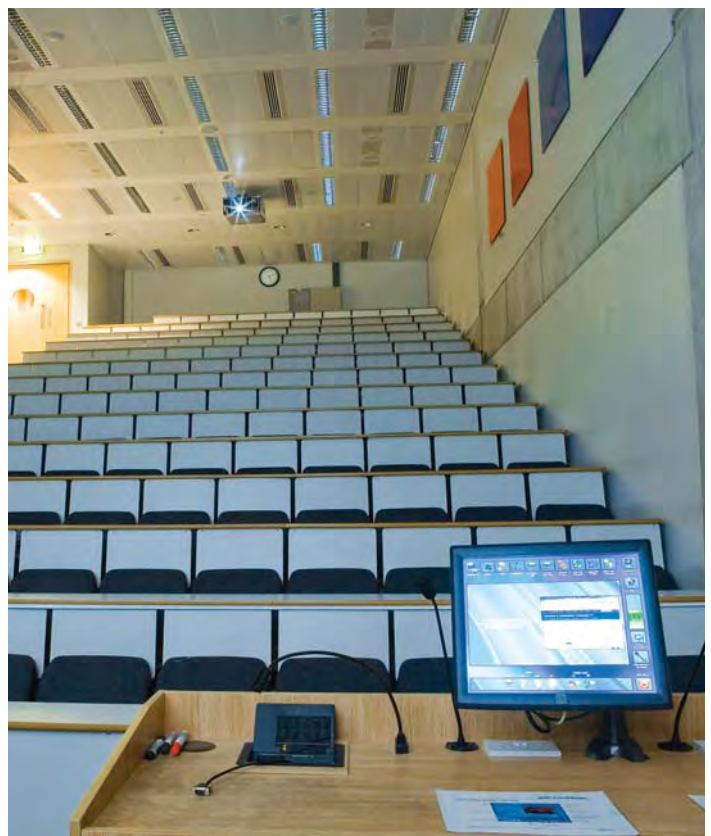
The control system was designed to operate the source and display equipment and to integrate with the existing lighting control, electric blinds and screens.

The judges felt that in making this project a success, Reflex had effectively taken on the co-ordination of various parties including the

College's own AV team and IT department, electricians working on site and individual academic departments within the College. The solution then devised by Reflex included Roomview remote monitoring software which enables the AV department to monitor and take control of the equipment in the lecture theatres from any PC and can be used for fault finding, equipment diagnostics and for switching off equipment when not in use. Through remote access to RoomView, Reflex can identify the precise action required should a fault occur and despatches a fully briefed engineer to take the appropriate remedial tasks.



■ Reflex took the Award for Best Education Project





■ Students can access practical lessons via a special Crestron controlled recording system devised by Impact Marcom

## BEST EDUCATION PROJECT - SPECIAL MENTION IMPACT MARCOM: SOUTH EAST ESSEX UNIVERSITY

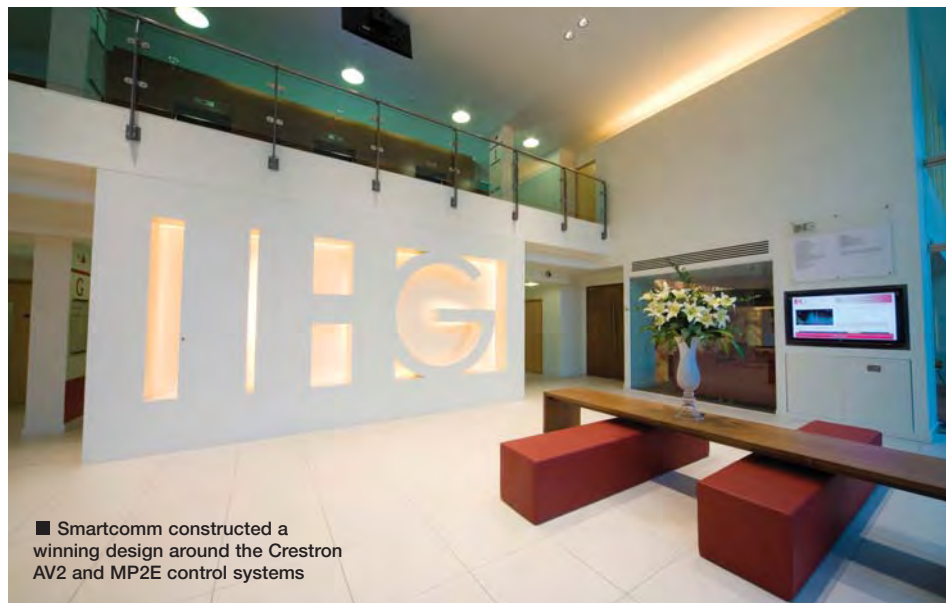
The judges felt that a Special Mention was required for the work Impact Marcom carried out with the South East Essex University. In an example of innovative solutions in an education environment, students at the Student Skills Kitchen and professional Ora Kitchen are able to access practical lessons on cooker and hospitality techniques, thanks to an advanced recording system controlled by a Crestron system.

The solution devised by Impact Marcom features a PC encoder for each kitchen and a centralised application and content storage server. Each kitchen has waterproof LCD screens that allow the chefs to see the current camera view and to review the last recorded content via a hard disk recorder. Each chef has a wireless waterproof Crestron lanyard system to allow complete control of the camera system from anywhere in the kitchen.

## BEST CORPORATE INSTALLATION SMARTCOMM LTD: IHG CORPORATE CENTRE GLOBAL HQ

IHG relocated its global HQ from Windsor to a new site located in 13 acres of landscaped grounds with open-plan office space set in a four-storey building. Covering 100,000 square feet, the new HQ features work zones, a 20-room meeting suite, a state-of-the-art gym and dance studio, contemporary style coffee bar and facilities – all of which required the latest AV equipment.

Smartcomm's winning design was built around the Crestron AV2 and MP2E control systems. Each AV and environmental element is controllable and accessible through the control system. The Crestron MP2E fuses high-performance AV signal distribution, device control, and facility-wide system management throughout the building. It combines an Ethernet control system and audio/video switcher in a single box to provide a cost-effective total room control solution. The MP2E is used to select and control each room's AV and environmental resources including VCRs, DVD/CD players, projectors, screens, lighting and more. Smartcomm's solution also delivers monitoring and management via Roomview, digital signage and audio teleconferencing with control via a variety of handheld wireless and wall mounted Crestron touchpanels.



■ Smartcomm constructed a winning design around the Crestron AV2 and MP2E control systems





■ The Paddock Complex features no less than 35 screens with QM receivers, each capable of showing any one of 18 different sources

## BEST LEISURE PROJECT

### MEDIA POWERHOUSE: FERRARI F1 PADDOCK COMPLEX

In a stunning example of Crestron in the field, Media Powerhouse's winning entry was for the design, supply, installation and support of the AV and network systems, telephony and satellite systems for Ferrari's new Formula 1 Paddock Complex which is to be used on all European Grand Prix's in 2009.

The complex is made up from seven 40 foot long modules, transported to each of the Grand Prix venues by trailers and for use by the Ferrari F1 team. These seven modules then interconnect once onsite to provide 10 individual offices/meeting rooms, and three large open plan areas. Each of these 13 areas has access to the integrated AV system via individual Crestron touchpanels.

The Paddock Complex features 35 screens with QM receivers, each one capable of showing any one of up to 18 sources, which include six local circuit camera feeds, Italian satellite channels, Sky UK channels, DVD players and a digital signage product. Users are able to view a quad split image consisting of any available source. All spaces have their own individual audio zone with individual volume control. Media Powerhouse also installed a telephone exchange and a fully integrated Cat 6 infrastructure with 100 data ports and two wireless networks, with a link to Ferrari's Italian based network.

The judges were impressed by the complexity of this system – meeting demanding performance criteria, at the same time as having to be fully demountable because of the mobile nature of the client. Media Powerhouse designed bespoke AV and network inter connects between all seven modules and the three open plan spaces. By specifying QuickMedia, Media Powerhouse was able to meet integration and delivery issues covering transmission distances and the maximum number of interconnects to be used for reliable performance.

## BEST MEDICAL INSTALLATION

### PIXEL PROJECTS: UROLOGY CENTRE, GUY'S HOSPITAL, LONDON

Pixel Projects' work for the refurbished Urology Centre at Guy's Hospital particularly impressed the judges in this category. The new centre contains state-of-the-art consulting and treatment rooms, including a new seminar room which is designed to host clinical video conferences with other hospitals.

As the system installed was to be used by lots of different doctors, it required a simple user interface, a criteria ably satisfied by the use of Crestron touchpanels. Four separate images can be displayed on the projector screen at any one time during the video conference. This allows the clinicians taking part to view patient information, x-ray images, microscope slides and the 'far end' participants taking part in the conference, all at the same time. The size of any of the images can be changed on the screen depending on the importance or quality of image required during the call.

The control of all of these functions, as well as hidden projector screen, is managed by the Crestron processor. The install was rewarded for being a great example of Crestron facilitating video conferencing and teaching at this world leading NHS Trust.



■ Crestron technology enabled Pixel Projects to achieve a very simple user interface for the Urology Centre at Guy's Hospital

## BEST TRAINING & CONFERENCE FACILITIES

### IVC MEDIA LTD: GUARDIAN NEWS & MEDIA

This multimedia project impressed the judges for sheer scale and quality of installation. IVC Media was appointed to complete the broadcast and AV elements of this new HQ building. Key areas of the project included the morning conference room (the journalists daily briefing room), the 120-seat auditorium and primary presentation space, training rooms, an IPTV distribution system and the Media Hub area. The backbone of the Crestron system is formed by the AV2 processor and four MPS-100s, delivering high quality multimedia presentations throughout the building.

The morning conference room is a multifunction space that provides a briefing room for the national journalists. Not only can the Crestron system broadcast the morning conference through the IPTV system to all staff, but it also allows video conferencing links and an audio conferencing link to journalists in the field. These conferences can also be recorded onto CD or DVD as required.

As part of the carbon footprint management of the building, the IPTV system had to be capable of controlling the power down of screens and systems not in use and the installation of RoomView took care of all the monitoring and management requirements here. A variety of touchpanels were installed including two-way wireless handheld versions with docking stations, lectern mounted, wireless, wall-mounted and a 15in technician's TMPC-15-QM.



■ The enormous scale of this project and the complexity of integration contributed to success for IVC Media Ltd in this closely-fought category







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