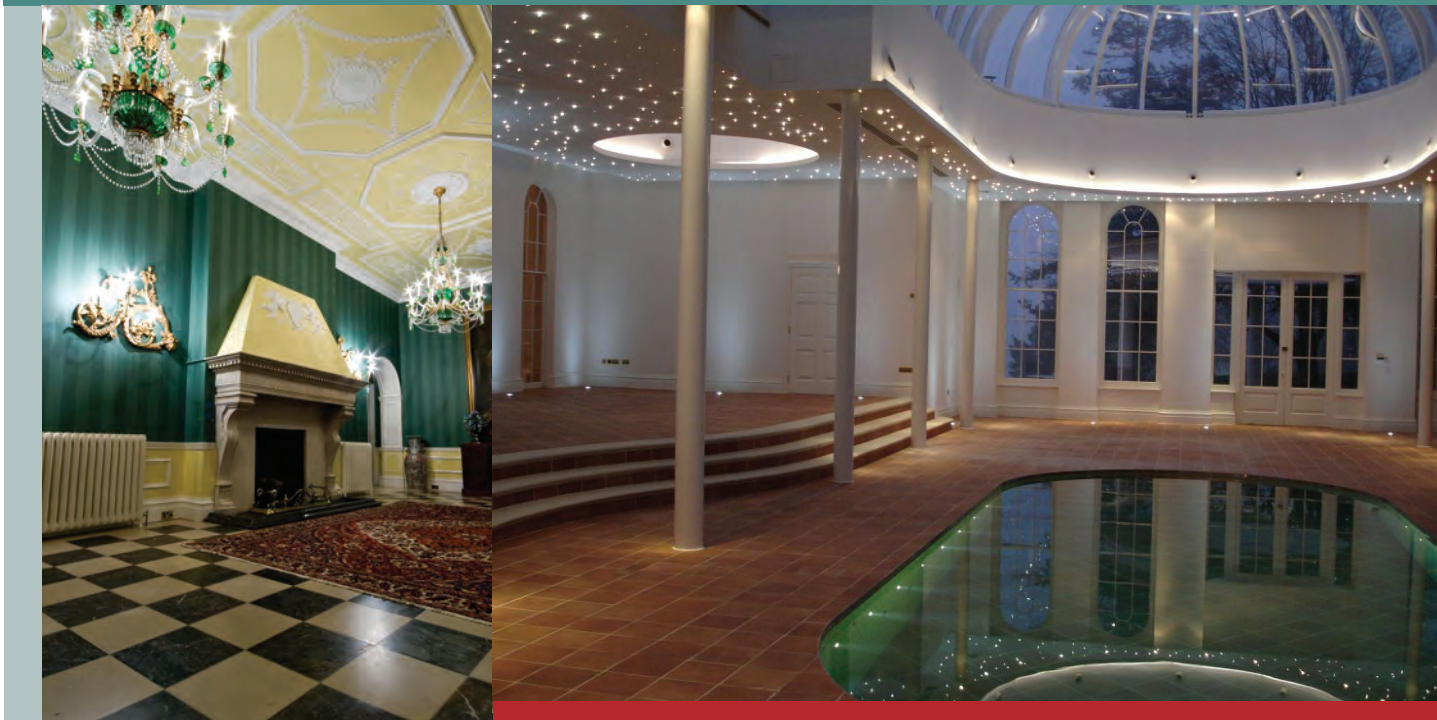
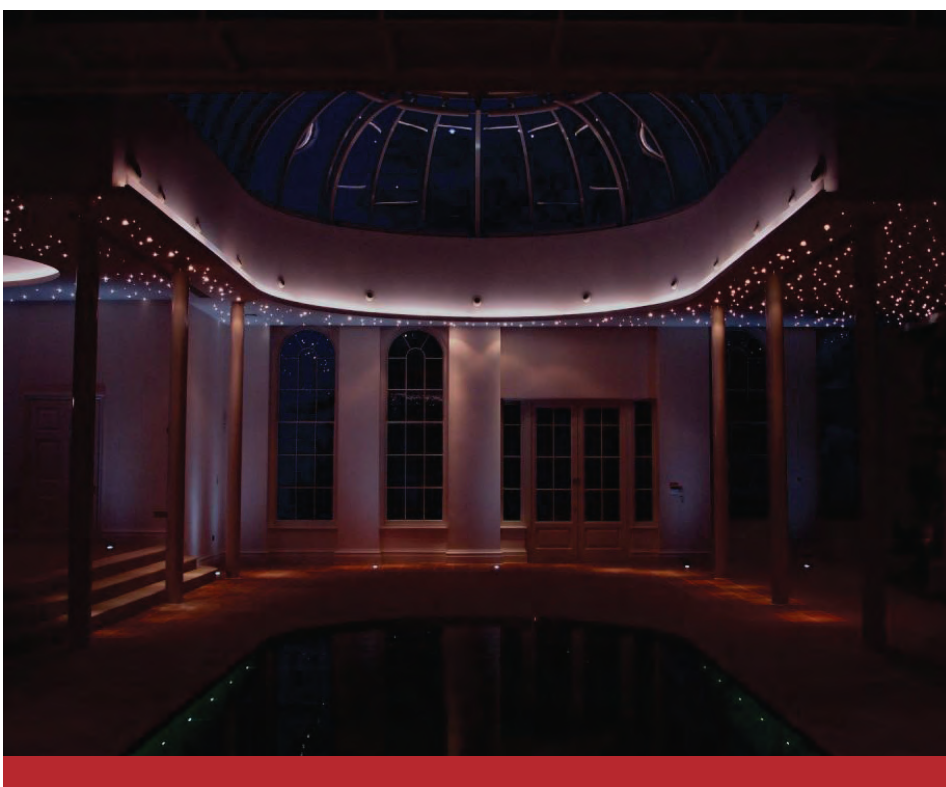


Case study Winter Garden



Crestron lighting shows off winter garden wonderland

The final phase of a loving restoration project where the owner used old photos of their house to renovate the property to its original grandiose glory, the brief for the Winter Garden extension, which won the Brilliant Lighting Design category at the recent Crestron UK Integration Awards, included an extensive lighting install, a motorized roof and pool floor, with full HVAC for the whole property.



The fourth phase of a large residential installation, the exterior of the Winter Garden is made from wrought iron and glass, with its design taking inspiration from the old Crystal Palace building using the original Victorian polo mite. With a Crestron control system installed in the existing house the client requested the Winter Garden to be integrated with the rest of the Crestron control system throughout the house, including the provision for intercom and HVAC via TSTAT and RTS.

Imagine This has more than ten years experience designing and installing lighting solutions, allowing them to produce beautiful, complex and electrically correct designs, making them the ideal installer. The lighting circuits were of various light sources: they included Cold Cathode for the perimeter of the domes and glazed areas. Fiber optic (Metal Halide) lighting was used to provide the star light effect on the ceiling and colour changing via DMX in the pool itself. LED's were used in the pool floor areas as electrical wiring regulations needed to be met within these wet areas. There were also electronic low voltage



and magnetic low voltage circuits and these were layered in such a way as to create really fantastic lighting scenes.

The client specified the pool floor motor move straight up to form the cover on request. This was achieved with the floor lowered straight down on huge cables to the floor forming the steps as it goes. This is buoyant and with the Crestron Isys IO panel the relays are released and the pool floor rises slowly to the surface, and large retaining bolts are engaged to lock the floor steady. This had to be installed with the help of a sub-contracted dive company and proved quite a difficult system to commission. The pool automation is controlled via a lighting scene on the lighting control system and touch panel.

The client had requested the roof to be motorized, controlled by the Crestron control system. This was interfaced with specific rain sensors, via a contact closure input into the control system, providing the means for the roof to close automatically should the weather take a turn for the worst.

Guy Singleton, System Designer at Imagine This, said: "The Winter Garden was an unusual project for any integration specialists to involve themselves in and we feel that the final results were spectacular. The client has expressed that they are really pleased with the results and they have engaged us to carry out further works for them at various other houses."

Crestron kit list

- 1 x TPS-2000
- 2 x TPMC-10
- 2 x TPMC-10-DS
- 1 x Pro2
- 1 x C2ENET1
- 1 x C2N-SPWS300
- 1 x C2N-RMAK
- 10 x CHV-TSTAT
- 10 x CHV-RTHS
- 2 x CLSI-C6
- 3 x CNX-B8
- 1 x CNX-PVID8x4
- 1 x CBX-BIPAD8
- 6 x CNXRMCLV
- 2 x CNXRMC
- 1 x ST-1700
- 1 x CNRFGWA418



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