

SMC

CRESTRON & RAYTEC END-TO-END SECURITY SOLUTION

CASESTUDY



PIONEERING BY SMC

Crestron & Raytec Integration

SMC have recently completed work on a security control solution for a Grade II-listed Regency Manor House in Shropshire. The perimeter protection solution is designed with Optex external wireless beams, integrated with a Texecom Ricochet alarm system. As well as providing a high level of security and intruder detection, the system also provides external lighting control using Raytec W4 and W8 IP Vario low voltage illuminators, integrated with a Crestron 3 series control system.

PERIMETER PROTECTION

The primary, and proven, function of this system is security. When a perimeter set of the alarm is activated within the premises, the external beam protection system also becomes active. Upon detection of a potential intruder, the external beams trigger internal alarm sounders in the estate office and manager's apartment, while also activating the external, high powered, white light LED security lights. In this instance, the Crestron user interface shows feedback that these lights are on.

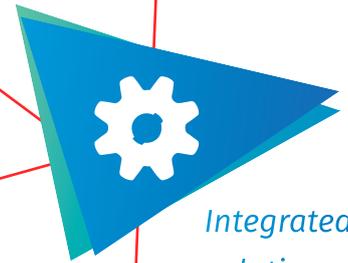




Designed to give crystal clear images from the CCTV cameras at night the Raytec lights provide a higher light output than other security lights available on the market today.



Movement sensors wirelessly link together to form a mesh network, detecting activity around the perimeter of the building.



Integrated solution



The Crestron control system provides an innovative level of integration, giving status and control of the security lights.



State of the art cameras are able to automatically track a moving object and, as they are linked together over the estate network, are able to follow an object around the building.

PROVEN VALUE

Potential break-in prevented

The value and reliability of this system has already been proven. In November 2016 a potential break-in at the property was prevented as intruders were deterred by the security system.

What happened?

Whilst driving on to the estate, the intruders triggered a PTZ camera (able to pan, tilt and zoom) from a ground loop buried under the driveway; this camera was able to track the van as it approached the property. Once on the property, the intruders continued by foot, breaking the beams of several wireless devices. This resulted in the Raytec security lights and an additional PTZ camera being triggered, and alerting the estate office.



As well as being a deterrent, the combination of security lighting with PTZ cameras improved the quality of the footage, captured on the network video recorder, for a number of static dome CCTV cameras allowing the intruders to be identified.



COMPLETE CONTROL

Remote management of external security lighting using Crestron



The secondary function of this unique Crestron and Raytec integration is the remote management of the property's external security lighting using the Crestron control system.

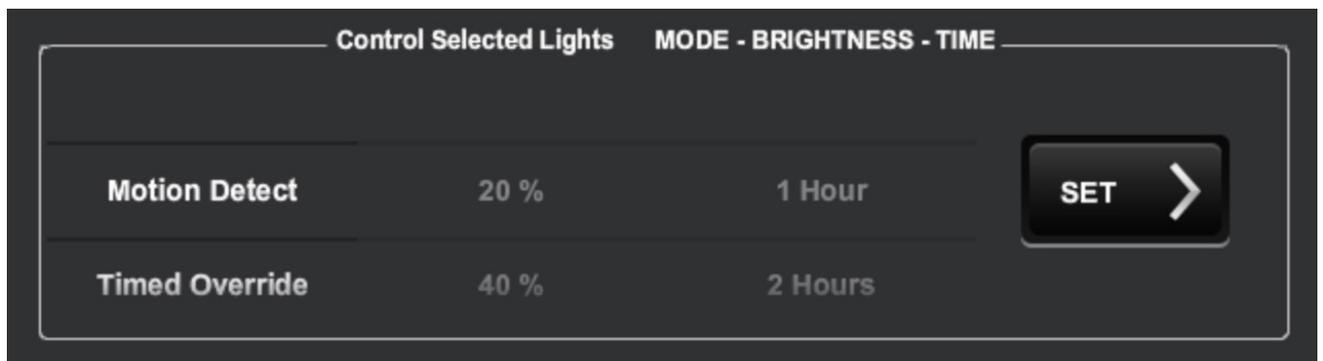
Users can select the lights they wish to manage directly from the Crestron user interface by tapping and managing them via the lighting control options. From here the 'Mode', 'Brightness' and 'Override Time' commands can be set, sending the command to the selected lights. The map and list views display information on both the lamp status and mode for each light.



With the Crestron user interface, lights can be controlled by viewing them on either a map view of the property, or as a list, with the ability to toggle between the two using the "View" button.

CRESTRON MANAGEMENT

Control lighting remotely from Crestron's user interface



Crestron user interface modes



'Motion Detect': This is the system's default setting, however, the lighting in this mode is not controlled by Crestron, the user interface simply receives and displays feedback. In this mode, the lighting will only switch on after dark if one of the security system's external beams are broken when the alarm is set for that perimeter.



'Timed Override': This mode can be used at any time. The Crestron system turns on the selected lights for a predetermined length of time and level of brightness. The list view on the user interface will display the time remaining before the override ends, at which point the lights revert to 'Motion Detect' mode.



'On At Night': In this mode the Crestron system turns on the selected lights at sunset and turns them off at sunrise. This mode will remain active until a different mode is chosen by the user.



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At SMC our team are experts in bringing together audio, television, lighting, telephone, data networks, security and other bespoke technology into a fully integrated and easy to use solution. We deliver complete systems to our clients that make their lives easier, whilst ensuring their homes are ready for the future. SMC solutions are easy to operate and understand and will evolve with the people who use them. We work with architects, design consultants and property developers, as well as individual clients. We pride ourselves on offering an end-to-end solution from design through to aftercare and support.

If you would like to talk to us about technology solutions for your project we would be happy to schedule a call or visit to talk about how we can assist.

Call us on **020 7819 1700** or email **info@smc-uk.com**

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