

Raytec IR improves security in tough Alaskan conditions

The latest IR lighting technology from Raytec is being installed at the Anchorage Christian School in Alaska as part of an upgrade to a 30-plus camera CCTV system.

As well as supporting an advanced IP video system, the RAYMAX 200 illuminators at the site have to withstand extreme weather conditions ranging including snow, ice and polar winds.



The installer, Tecpro, was given the challenge of improving an analogue CCTV system which had been installed several years earlier at the school but which was not delivering high enough image quality.

As part of the upgrade to a high definition digital system, Tecpro chose the Raytec units because of their outstanding performance and low maintenance requirement.

“Coupled with the best cameras, we needed to use the most rugged and best performing IR units too,” says Scott Rees, Tecpro’s project manager.

The illuminators now allow the system to capture crisp, clear images in low light external areas such as the parking lots – which had previously been a common place for theft and vandalism.

“With the new CCTV system in place incidents have dropped to almost nothing,” adds Scott Rees. “The Raytec illuminators have performed faultlessly and now we’re looking at installing more of them on the same site.”

With an industry leading 5 year warranty Raytec’s illuminators are proving a popular choice for tough applications which demand high level performance with zero maintenance.

Flexibility and maximum performance is provided by Raytec’s unique Adaptive Illumination™ concept which provides the flexibility to alter the angle of illumination onsite to suit the specific needs of any installation.



“For lighting applications in environments where performance and long life is critical, Raytec is the most powerful, flexible



and reliable choice available to installers,” says David Lambert, Sales and Marketing Director of Raytec.

Green Solution

The great advantage of LED illuminators is that they convert electricity into light very efficiently (low energy) and with the correct optical design can produce accurate beam patterns reducing light wastage, increasing efficiency and maximizing performance.

Additionally they start up more quickly (no warm up) and last significantly longer than traditional light sources. Being solid-state they are also more resistant to movement and shock and their life-expectancy is not reduced by switching on and off.

This advantage of LED illuminators is perfect for critical installations that demand 100% performance, where bulb failure is unacceptable and where the cost to replace a bulb becomes excessive. All Raytec illuminators deliver low running costs and zero maintenance.

If you take into consideration the saving in electricity consumption, switching to LEDs can have a significant impact in helping to reduce the carbon footprint of any organisation – making LEDs a truly green solution for most lighting applications.

Significant Savings – Reduced Running Costs and Zero Maintenance

LED illuminators can dramatically reduce electricity consumption due to their low energy consumption. Typically a LED unit consuming less than 80 watts can replace a traditional bulb unit consuming 200 watts or more, reducing electricity costs by more than 60%.

This however only takes account of running costs. When the installer or end-user considers the costs for maintenance visits for bulb-replacement of old-fashioned bulb based units, the savings delivered by switching to LED technology rises further.



Switching to LED lighting can provide a very quick payback when both running costs and maintenance costs are considered.

So it can be seen what organisations have to gain by switching away from traditional high energy lighting to low energy LED lighting solutions. Lighting for perimeter protection, CCTV systems, for general site security – and even non-security applications - is an area where the technology now exists to give security planners very easy wins when it comes to making *and proving* significant savings.

Broader Thinking

We are in no doubt that the trend towards LED lighting solutions will catch on, and we are determined to help the market succeed in their broader thinking. The first and most obvious applications are failure-critical lighting, where it is either very expensive, difficult or operationally undesirable for lamps to fail. Long-life lighting products are perfect for these situations. Next, consider remote or challenging situations where maintaining and replacing the lighting is extremely difficult, costing time and money. LED-illuminators are perfect for this job as they require zero maintenance and the cost of running them continuously is a fraction of the cost of running traditional floodlights. In fact, the commercial argument for switching to LED illuminators is convincing in most, if not all, applications when all costs are factored into the equations.

Global Support

Moving forward, there are similar gains to be made in almost every area of site lighting and we are happy to discuss your specific lighting requirements. Raytec are an international company with offices in the UK and North America. We sell to over 50 countries World Wide with a distribution and rep network across the globe for local assistance. Raytec employs over 40 staff, with a dedicated technical team to offer advice and help with your next IR, White-Light or LPR project.

Visit the new Raytec website at www.rayteccctv.com to access our full product range, including specifications, installation manuals, live footage and product videos. See



also our on-line CCTV lighting 'Resource Centre' with useful A&E specification, practical design tools and technical support articles including the latest Raytec literature.

For more information on high performance, low energy LED lighting for any application, please contact sales@rayteccctv.com