



The increasing security challenges for outdoor campus applications are a growing concern for school, university and healthcare facilities. The proper design and effective management of the external campus environment can minimize violent and property crimes, promote efficient resource management, and provide a welcoming environment.

The International Association for Healthcare Security and Safety describes the security of parking facilities and the external campus environment as a significant concern for the users of those facilities. The security design guideline put together by the organization for these environments also describes the specifics for the effective protective lighting and security considerations. Among those are:

1. Lighting should act as a deterrent and allow effective recognition of persons and activities.
2. Lighting should be integrated with the video surveillance system design to ensure adequate coverage.
3. Installing video surveillance to obtain images of all areas including; vehicular and pedestrian entrances and exits, areas of higher traffic activity, emergency communication devices and attendant booths.

Campus wide security applications can vary greatly based on size, geography, student /patient/ visitor composition, building design, threats and a variety of other factors, all of which dictate the need for individualized and tailor-made security plans adapted to the uniqueness of the particular campus.

Some of the top issues that should be on the radar for campus security professionals in 2013 according to the Campus Safety Magazine's Year Book and Survey identified as; Security systems integration, stalking, training and weapons, management of keys, guests and emergency power.

**"... security plans should be uniquely designed for the individual campus and set forth layers of security including use of technology, perimeter security, staff training, properly conducted security drills, and coordination with local law enforcement, fire service and emergency responders."**

- The National School Shield Task Force Report



TOTUS Security Platforms™ are the world's first outdoor LED lighting based security platforms. A solution that combines lighting, surveillance and communication in one simple, low-cost, fully integrated system. These purpose-built security platforms are designed to turn video surveillance from a passive system that must be constantly monitored, to an Active Deterrence™ that takes action on its own. The actions can be any combination of light events, sounds, stored video, emails, or phone calls.

TOTUS Security Platforms extend the presence of security personnel by engaging individuals with audio messages and visual warnings. Optimized lighting, 360-degree IP video surveillance, real-time emergency communications, and quick response are the important steps in enhancing campus safety and deterring crime.

## The Benefits of TOTUS Technology:

- » Superior Night-Time Color Rendition
- » 60,000 to 100,000 – Hour Life Cycle
- » Extend Security Coverage to Unprotected Areas
- » Continuous 360° Video Recording
- » Two-Way VoIP Audio Communications
- » Analytics-Triggered Lighting Control and Audio
- » Active Deterrence™ by Event Action Processes
- » Embedded PoE Switch and External Device Mounting Options
- » Edge Based Multi-Media Storage
- » Integrates With and Extends Existing Surveillance to Unprotected Areas
- » Rapid Deployment and Low Total Cost of Ownership

## High Efficiency Lighting

Adequate lighting in parking facilities and outdoor campus environment can not only help deter criminal activity and make people feel secure, but also it is important for better surveillance and identification.

TOTUS outdoor lighting based security platforms' LED technology is optimized for video surveillance and provide up to 70% energy saving versus legacy streetlights. They have a life cycle of up to 100,000 hours with less than 5% loss in brightness, so it's incredibly cost-effective and virtually maintenance-free.

Embedded lighting control capability allows lights to be used as a real-time deterrent and can automatically adjust illumination levels based on natural light or activity to save even more energy. Enhanced night-time color rendition delivers high-quality images with smooth, even color shading, so security personnel can identify subjects more accurately.



### TOTUS LED Technology:

- » CRI 83.3 (Sunlight=100CRI and Department of Defense Min. CRI Requirement is 80)
- » 5000K Correlated Color Temperature

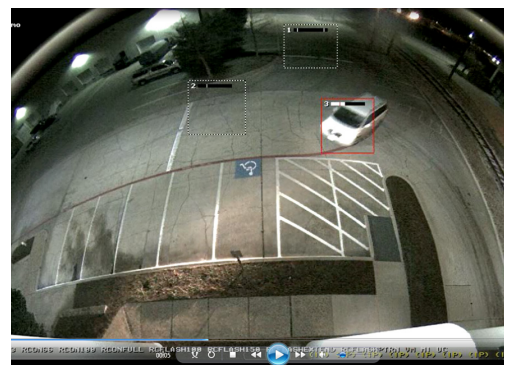
## Video Surveillance and Active Deterrence™

The TOTUS Surveillance Platforms™ are the most advanced group of TOTUS Security Platforms. With the embedded hemispheric IP megapixel camera they provide continuous 360-degree recording, for an unrestricted field of view that offers complete situational awareness with fewer cameras. And there's never a concern over whether a pan/tilt/zoom camera is pointed in the right direction.

When the embedded intelligence of the camera detects a motion within the premises of pre-defined geo-fences, the system can flash lights and play custom audio messages such as, 'You have entered a restricted area and you are under video surveillance.' If motion is detected and the individual proceeds, the event is escalated, 'Security has been called; authorities have been notified' giving criminals understanding that they have been identified and reason to stop and leave.

TOTUS lighting control processor extends the 360-degree surveillance capabilities of the platforms to include lighting control and management. Communication components from the TOTUS Network and Surveillance Platforms can also create wireless IP connections between multiple units for full system control, and extends IP network connections for security and surveillance to parking lots and campus environments with no additional wiring.

The ability to dim the TOTUS Surveillance Platform at midnight allows all platforms in the system to be set at up to 25-50% brightness mode at midnight and can go back to 100% mode when detects a motion. This can be programmed for a single light or grid of lights to allow the end user to save more energy without the compromise of security.



## Emergency Communication

TOTUS Security Platforms can be integrated with emergency call boxes and other mass notification devices such as PoE powered speakers for further communication and deterrence capabilities. This will give an access to emergency call points throughout the campus environment. When a student or visitor presses the call button at the emergency call point, it instantly connects them with security personnel and establishes a two-way communication. This can also program to cause the surveillance platform's light to flash or strobe drawing attention to the incident, discouraging criminal activity. The video can be concurrently sent to roaming patrols and central monitoring stations to verify, respond and prevent incidents in real-time.

The Clery Act\* requires every Title IV institution (education facility processes U.S. federal student aid), without exception, to have and disclose emergency response and evacuation procedures in response to a significant emergency or dangerous situation involving an immediate threat to the health or safety of students or employees occurring on the campus. All of us want to be alerted promptly to potentially dangerous criminal situations near our homes or workplaces so that we have both the time and the information necessary to take appropriate precautions.

Healthcare facilities located on the university campuses can also be impacted by the Clery Act\*, which requires a mass notification system to issue timely warnings in case of an emergency.

\*The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is a federal statute requiring colleges and universities participating in federal financial aid programs to maintain and disclose campus crime statistics and security information. The U.S. Department of Education conducts reviews to evaluate an institution's compliance with the Clery Act requirements.



## Real-Time Response

For complete incident awareness, the video streams along with audio can be sent to roaming patrols and central monitoring stations to verify, respond and prevent incidents in real-time. Central monitoring stations can share videos and images from incidents by forwarding the files via email, or uploading the files via FTP server. Automated notifications can be sent via email and pre-recorded phone messages.



## Wireless Connection

TOTUS Security Platforms™ flexible design allows wireless connection and integration with specialty cameras, wireless radios with sensors mounted on a din-rail, on top of the fuselage of the platforms and powered with the use of two embedded PoE ports.

## Edge-Based Recording

The 360 degree high definition video is captured and stored locally with each platform, stamped with the date, time, and GPS location. The video can be delivered continuously or forwarded on-demand, thus reducing the need for excessive bandwidth.

