OUTDOOR LED LIGHTING BASED SURVEILLANCE PLATFORM AND LIGHTING CONTROL
Spaulding Lighting’s Cimarron luminaire integrates with the TOTUS Solutions surveillance platform. TOTUS Solutions is a strategic partner of Hubbell Lighting.

**TOTAL CONTROL**
SURVEILLANCE, COMMUNICATION AND LIGHTING CONTROLS IN ONE SOLUTION

Critical security concerns are addressed with one simple-to-install, low cost solution which features energy-saving LED Lighting, two-way communications, sensor technologies, and IP video surveillance. There are no other comparable all-in-one solutions available on the market today.

Spaulding’s Cimarron outdoor lighting luminaire is totally integrated with an Ethernet controlled LED fixture, 360° hemispheric camera, and communications platform. This revolutionary system can perform a myriad of surveillance and analytic functions based on your specific needs and application:

- Live overhead imaging camera with 360° hemispheric view
- Active Deterrence™ – the platform’s ability to flash the lights and broadcast audible messages/alerts when occupancy is detected
- Download recorded images
- Stand-alone or expand an existing surveillance infrastructure
- Create or connect to a Wi-Fi network
- Cellular connectivity for remote locations
- Event notification via email, text, FTP, VOIP and TCP
- Reduce energy consumption with wireless time-of-day on/off control and occupancy based dimming for single or multi-fixture groups
Applications

Endless application possibilities from commercial and institutional, to critical infrastructure.

See Pages 4-5

Surveillance

Outdoor-rated, 360° hemispheric camera with user defined views.

See Pages 8-9

Lighting

High-performance LED area/site luminaire offers industry leading performance and significant energy savings.

See Pages 6-7

Communication

Web browser or video management based system control, monitoring, and commissioning.

See Pages 10-11
PEACE OF MIND
SURVEILLANCE FOR EVERY APPLICATION

One of the most prominent aspects of any property, whether it is a commercial business or government/institutional facility, is the outdoor space. Outdoor environments are challenging spaces to secure because they differ greatly in size, shape, accessibility, location, and risk profile. Despite their diversity, many share similar security and safety concerns. The Cimarron system with integrated surveillance and communication helps owner/operators with solutions for:

- Surveillance and situational awareness
- Safety and security in remote/perimeter locations
- Operational compliance (employee or contractor monitoring)
- Risk mitigation including frivolous employee and customer lawsuits
- Asset protection including items like copper wiring, vehicles, equipment, and inventory

EDUCATION - SCHOOL/CAMPUSES
The increasing security challenges for outdoor campus applications is a growing concern for school and university facilities. The proper design and effective management of the external campus environment can minimize violence and property crimes, promote efficient resource management, and provide a welcoming environment.

TRANSPORTATION – AIRPORTS AND PUBLIC TRANSIT
As transit agencies continue to seek innovative and effective means to increase ridership and improve the image of public transportation, the safety and security of public bus stops and transit stations are critical considerations for patrons, transit agencies, and the communities they serve.
CRITICAL INFRASTRUCTURE, MUNICIPALITIES, AND GOVERNMENT
Infrastructure and government facilities can be challenging to secure because of their diverse geography, and types of assets. Utility and energy industries are vulnerable and rank high as potential threat targets. Mitigating these risks enables continual service coverage, customer satisfaction, and increased operational effectiveness.

AUTO DEALERSHIPS
Superior lighting creates an inviting environment for customers, while keeping them safe during their shopping experience. Each area of a dealership has a different flow of traffic whether it’s customers, cars or a combination of both. Having the right lighting and security options in the right location will make the area safe and inviting, as well as protecting the vehicle inventory, facility, and service area.

HOSPITALITY, RETAIL, BANKING, AND PROPERTY MANAGEMENT
Safety and security are of utmost importance for large mall and mixed-use retail, restaurants, and commercial office space. Increased lighting provides overall customer and employee safety as well as making the shopping area more inviting. Combined lighting and surveillance systems provide peace of mind for patrons and owner/operators of these areas.

HEALTHCARE
Similar to the educational outdoor lighting space, healthcare campuses encompass large parking areas, pedestrian walking spaces as well as sensitive material areas. Proper lighting and surveillance is critical for these areas, providing safety to the employees, patients and families who many times arrive and depart late into the evening and early morning hours.
AWARD WINNING TECHNOLOGY
PERFORMANCE – SECURITY – SURVEILLANCE

The Cimarron LED features high brightness LEDs, providing superior optical performance while reducing energy consumption and lowering maintenance costs. Cimarron LED is a perfect balance of design, form, function and efficiency. Now with integrated TOTUS Surveillance Platforms™, the Cimarron provides unmatched versatility.

The system provides up to 70% energy savings versus the legacy area site lighting through the use of improved LED technology. Lighting control management allows complete control of the system with an easy-to-use interface on web enabled devices. The ability to dim light levels at user defined schedules allows the platform to be set at low brightness mode and can go back to 100% when motion is detected. This can be programmed for a single light or grid of lights to allow the end user to save more energy without compromising security.
### Outdoor LED Lighting Based Surveillance Platform and Lighting Control

- **Mobotix Camera Option**
  - 360°/180° panoramic views in up to 5 MP resolution
  - Compact, outdoor-rated design
  - Input/output PoE (Power over Ethernet) ports provide on-board low-voltage for up to 3 additional devices (external ports optional)
  - Enhanced capacity for video analytics
  - Video-based Motion Detection
  - Live or Recorded Edge Storage microSD/microSDHC micro/SDXC slot supporting up to 64 GB of video
  - Speaker included standard with Mobotix camera with 2-way audio allows real-time communication (Mobotix only)
  - VOIP Voice Over Internet Protocol with SIP – Session Initiation Protocol capable (Mobotix only)

- **AXIS Camera Option**
  - 360°/180° panoramic views in up to 5 MP resolution
  - Compact, vandal-resistant, outdoor-ready design
  - Enhanced capacity for video analytics
  - Video-based Motion Detection
  - Live or Recorded Edge Storage microSD/microSDHC micro/SDXC slot supporting up to 64 GB
  - Input/output PoE (Power over Ethernet) ports provide on-board low-voltage for up to 3 additional devices (external ports optional)

- **LED Performance**
  - High Performance LEDs offer significant energy savings
  - Achieves impressive Backlight-Uplight-Glare (BUG) rating
  - Reduces light spill behind the pole by approximately 85% providing a neighbor-friendly lighting solution and eliminating camera glare

- **Wireless Controls**
  - Optional wireless control for other (child) luminaires on site
  - On/Off functionality plus dimming
  - Active Deterrence™ effects (flash and strobe)
  - Programmable Dimming Schedules
  - Wireless 900 MHz TOTUS- Network T-Net Controller extends security lighting to other fixtures via TCM module

- **Speaker Option – 108 Decibels**
  - Recorded audible message (customizable) or alarms
  - Optional high power 108 dB speaker for environments with significant background noise
  - Increases Active Deterrence™ effect
Cimarron CL1 LED with integrated TOTUS Surveillance Platforms™ (iTSP) are the most advanced outdoor luminaires available with industry leading LED lighting, multi-megapixel IP video surveillance, and multi-day edge media storage, up to 64 GB.

**FEATURES & BENEFITS**
- Transforms passive surveillance into Active Deterrence™ which is the platform’s ability to flash the lights and create audible messaging when motion is detected
- Motion-activated lighting control and audio messaging
- Integrates with and extends existing surveillance to unprotected areas
- Multi-day edge-based media storage available for future playback and download
- Connects to video management systems or can act as a stand-alone system

**SURVEILLANCE – DAY AND NIGHT**
- Multi-Megapixel hemispheric camera provides clear image with continuous 360˚field of view
- Video motion analytics, shock and audio sensor detection, temperature sensors
- Expandable adaptable platform for additional equipment with three available PoE ports for additional cameras and devices
- Wireless 900 MHz T-Net Controller: Extends Security Lighting to other fixtures integrated with a T-Net Receiver (TCM – TOTUS Control Module) to improve quality
- Basic people and vehicle counting functions (standard with Mobotix camera, optional with Axis camera)
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SURVEILLANCE DETECTION AND RECOGNITION
The sophisticated system allows detection and recognition from up to a 200 ft. distance. This example details the surveillance area in a parking lot application. The orange circles illustrate the surveillance camera coverage. The camera image area is omnidirectional and covers a very large area; however, as the distance from the viewed object increases, the image quality diminishes. Utilize the matrix below for application guidelines based on a 26 ft. mounting height of a TOTUS enabled Cimarron luminaire.

<table>
<thead>
<tr>
<th>IMAGE QUALITY</th>
<th>DETECTION QUALITY</th>
</tr>
</thead>
<tbody>
<tr>
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<td>None</td>
</tr>
<tr>
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</tr>
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<td>High</td>
</tr>
<tr>
<td>Low</td>
<td>Medium</td>
</tr>
<tr>
<td>Very Low</td>
<td>Limited</td>
</tr>
</tbody>
</table>

Dashed line area = 208’ x 209’ (one acre)

TSP2
The TOTUS TSP2 accessory extends surveillance coverage with the same functionality as the Cimarron CL1 but without the LED lighting aspects of the platform. This accessory can be pole- or building-mounted and offers surveillance, communication, recording, and T-NET light control functions for other luminaires configured with a TCM control module.
In today’s data-driven world, communication is key. The CL1 iTSP system provides robust capabilities for the user including analytics and notifications via smartphone, tablet or computer, with user friendly GUIs (Graphical User Interfaces). State-of-the-art software and existing infrastructure integration provides video surveillance image storage, event notification, system control, provisioning and monitoring.

**FEATURES & BENEFITS**

- Live or recorded image viewing from remote locations using desktop computer, tablet, and smartphone
- Up to 64 GB Edge Storage provides days of event based recordings
- 802.3 af/at Ethernet PoE switch integrated with up to three available ports – one included standard within arm assembly, two can be externally mounted to power additional devices as an option
- Remote Device Restart to support individual device software upgrades
- Inbound Lighting control API to process lighting commands directly from 3rd party devices and systems
- TOTUS-Network (T-Net) master controller allows wireless control of other luminaires on the site to extend lighting commands and effects

**PLATFORM COMMUNICATIONS**

Communicating with the platform is simple utilizing the internal wired Ethernet port included standard. Third-party fiber optic media converters can extend this wired method of communication. Wireless communication occurs with the internal Wi-Fi and/or cellular radio options. External PoE ports allow third-party wireless communication accessories to extend distances and improve bandwidth.
APPLICATION SOFTWARE & HARDWARE

Third-party applications can seamlessly integrate into the TOTUS platform for advanced functionality. The system’s PoE ports allow for hardware/device expansion. Typical uses include:

- Video management systems (VMS) control
- TOTUS Alert (available for iOS and Android platforms)
- TOTUS Managed Services
- License plate recognition
- Facial recognition
- Emergency call box service
- Traffic mapping/motion path analysis
- Vehicle counting

CELLULAR SERVICE PROVIDERS

- Internal Cellular 4G LTE Modem
- Data fees and carrier contract apply
- Service provided by four national carriers
  (consult specification sheet for ordering details)

  - AT&T
  - Sprint
  - Verizon
  - T-Mobile

MAPPING/MOTION CAPABILITY (Optional)

- People occupancy and crowding detection
- Traffic mapping/motion path analysis

VEHICLE IDENTIFICATION (Optional)

- Optional license plate recognition compatible camera
- Vehicle counting

TOTUS ALERT AND MANAGED SERVICES

- App designed for iOS and Android
- Facility monitoring
- Emergency notification