

Lumenera's Li Series Cameras Improve Border and Perimeter Security

Lumenera Provides 24 Hour Protection

The traditional role of the camera in border and perimeter security applications is to provide accurate and rapid assessment of alarms through high-quality images, both day and night, and in a variety of lighting and weather conditions.

Video content analytics embedded in Lumenera's Li-series cameras improve these conditions by providing specific and timely alerts to the control room based on the images from the cameras.

Video Analytics and Intelligent Cameras

Lumenera's intelligent camera products use ObjectVideo's OnBoard™ embedded video analytics software. Using a simple graphical user interface, one may configure specific rules related to the position and behavior of persons, vehicles, or objects, that can be used to track alarms and/or log them. Basic examples involve the appearance or entry of a person or vehicle, as well as defining tripwire rules that specify the forbidden direction of travel. The same capabilities can be used to count persons or vehicles, or to measure the time or speed of travel.

Video analytics embedded in the camera operating at the network edge to provide a much more scalable and cost-effective system, with lower latency between real-world events and operator alerts. Accurate rules-based alerts provide low nuisance alarm rates and shorter response times.

Rules can specifically identify the location and behavior of people, vehicles, or objects relative to defined areas. Easy-to-use filters are available to exclude alarms due to nuisance factors, such as small animals, disruptive weather, or falling leaves.



Highlights of the Li045

- Lumenera's Li045 series of intelligent network cameras are designed for general security applications, providing high quality, progressive scan images in the most difficult lighting situations, such as mixed sun and shadow, and backlit windows.
- ObjectVideo OnBoard video analytics
- 30 fps at full 720x480 resolution
- 1/3" CMOS sensor
- 0.5 Lux
- MJPEG or H.264 compression
- Ultra-wide dynamic range (up to 120 db)



Video analytics serve as an aid to the security control room personnel by reducing operator fatigue, increasing motivation, improving decision making, and operator response time. By providing an automated display highlighting a potential intrusion alarm, rules-based content analysis embedded in the camera reduces false alarm rates, and provides automated alert display and logging. The presence of a highlighted visual display of a specific alert helps the person on duty take quick and appropriate action.

Lumenera's Li045 Cameras

Lumenera's Li045 cameras use the Pixim Orca chip set to provide rapid and effective responses to challenging and ever-changing high-contrast lighting situations. This has a broad applicability to both outdoor and indoor situations that may include bright daylight or spotlights as well as shadows. The same Pixim image sensor technology allows one to view the interior of vehicles which are always shaded, in a variety of conditions. The level of JPEG compression can be specified by the user or set automatically, depending on image quality, bandwidth and storage requirements.



Li045 VGA Intelligent Network Camera

About Lumenera

Lumenera Corporation, a division of Roper Industries, headquartered in Ottawa, Canada, is a leading developer and manufacturer of high performance digital cameras and custom imaging solutions. Lumenera cameras are used worldwide in a diverse range of industrial, scientific and security applications.

Lumenera solutions provide unique combinations of speed, resolution and sensitivity in order to satisfy the most demanding digital imaging requirements. Lumenera customers achieve the benefit of superior price to performance ratios and faster time to market with the company's commitment to high quality, cost effective product solutions.

For further information about Lumenera, please visit www.lumenera.com or call 613-736-4077. To receive Lumenera press releases as they are issued, contact us at marketing@lumenera.com.

