### SECURITY NETWORK CAMERAS — FEATURE COMPARISON MATRIX

#### INTELLIGENT CAMERA SERIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Resolution</th>
<th>Frame Rate</th>
<th>Sensor Size</th>
<th>Minimum Illumination</th>
<th>MJPEG</th>
<th>H.264</th>
<th>DCIris</th>
<th>IR Sensor</th>
<th>CS*</th>
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#### SECURITY DAY/NIGHT CAMERAS

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### INTELLIGENT CAMERAS

**Be prepared – be proactive – take control!**

1. Provides the ability to selectively stream surveillance video to a location of your choice.
2. Introduces powerful video analytics technology onto a digital signal processor (DSP) within each camera for distributed intelligence throughout the surveillance network.
3. Lumenera has partnered with ObjectVideo to extend their powerful video analytics technology onto a DSP within each Lumenera camera, and is now the World’s FIRST to offer this capability.
4. Set-up and rule creation is user-friendly and easy via the intuitive software interface. New capabilities and features can be added to the camera with software updates.
5. By integrating video analytics technology within the camera, all pre-defined rules can be applied to a specific video stream.
6. Enables intelligent cameras to dramatically reduce system complexity and maintainability.
7. Enables improvement in system performance by optimizing network bandwidth and storage.
8. On-site hardware troubleshooting is not required.
9. Adjusted for reduced power consumption.
10. Improved user interface and system operation.

### Feature-Rich Video Content Analysis

- Directional alarm
- Object detection
- Event detection
- Video analytics
- User-friendly installation
- Proactive intervention
- Fewer false alarms
- Lower implementation and life cycle costs as no backroom complexity and maintenance:

### Target Markets

- **Transportation**
- **Banking**
- **Retail**
- **Proactive intervention**
- **Education**
- **Facility management**
- **Industrial surveillance**
- **Evacuation planning and control**
- **Healthcare**

### Initial Setup

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**INTELLIGENT CAMERAS**

Be prepared—proactive takes control!

Lumenera's new intelligent cameras greatly enhance the ability to detect potential threats and events in real time, providing the opportunity for security personnel to act on situational analysis before actions turn into events. Tracking and analysis of objects of interest and identification of potential threats. Lumenera camera models offer 4-32X range of analytic video, providing automated detection of highly specific, pre-defined events providing a response to events/crimes before they escalate.

**Intelligent Camera Series**

- User-friendly installation with Lumena Cam Client application
- Automatic and enhances the ability to detect potential threats
- Reduction of valuable assets and potential crimes
- Incorporates familiar features of the popular Le series cameras
- Future-proof your investment with built-in video analytics capability

**How It Works**

A powerful Digital Signal Processor (DSP) within each camera provides the ability to detect threats and monitor environments. Lumenera's AI computation and object analysis performs object math and thresholding, enabling the ability to detect the presence of objects and individual objects. Only the Lumenera AI intelligent cameras can detect threats in real time, and automatically detect potential events.

- Ultra-wide dynamic range (up to 120dB for Li045)
- Enables intelligent cameras to detect threats in real time
- Object classification
- Two-way audio over IP
- Ultra wide dynamic range (up to 120dB for Li045)
- Enabled with ObjectVideo video analytics

**Feature-Rich Video Content Analysis**

- Exceptional accuracy and video content analysis
- Exceptional accuracy and video content analysis
- Exceptional accuracy and video content analysis

**UNLIMITED AND UNSTOPPABLE**

- Intelligent cameras (including innovative resolution)
- Day and Night cameras
- Incorporates the familiar features of the popular Le series cameras
- Camera performance improved
- Future-proofing your investment

**Target Markets**

- Transportation
- Healthcare
- Retail
- Education
- Transportation
- Homeland Security
- Utilities
- Municipal

**Benefits**

- Motion detection
- People loitering
- People/vehicle count
- People/vehicle count
- People/vehicle count
- Biometric verification
- Vehicle moving at excessive speeds
- Waterway monitoring for vessel size or speed
- Directional alarms
- Tailgating through controlled access
- Pedestrian tracking
- Queuing length monitoring
- Unattended personnel in critical areas
- Vehicle speeding at maximum speed
- Object tracking
- Waterway monitoring for vessel size or speed

**Real-Time Meters**

**LUMENERA CAMERAS**

- Megapixel Resolution
- CMOS/CCD Color or Monochrome
- 2.2µm Pixel Pitch
- Ultra-wide dynamic range (up to 120dB for Li045)
- 0.5lux illumination
- 9.0µm CCD Color or Monochrome
- 1 lux illumination
- Canon EF lens mount
- 35mm field of view
- 0.01lux illumination

**THERE’S MORE TO SEE WITH MEGAPIXEL SURVEILLANCE CAMERAS**

**CAMERA FEATURE SET**

- **Cameras**
  - Full-featured Cameras
  - Network Security Cameras

- **Security**
  - Biometric Security
  - Access Control
  - Card Reader
  - Lock and Tagging
  - Motion Detection & Time Lapse
  - Privacy Map
  - Video Search
  - Forensic Enqueue
  - Motion Alerts
  - FTP/Email Alerts
  - Video and Audio (as configured)
  - RTMP Streaming
  - MicroSD Card Storage
  - Encrypted Video Streaming
  - Web-based camera management

- **Features**
  - CMOS/CCD Color or Monochrome
  - Ultra-wide dynamic range (up to 120dB for Li045)
  - 0.5lux illumination
  - 9.0µm CCD Color or Monochrome
  - 1 lux illumination
  - Canon EF lens mount
  - 35mm field of view
  - 0.01lux illumination

- **Applications**
  - Transportation
  - Healthcare
  - Retail
  - Education
  - Transportation
  - Homeland Security
  - Utilities
  - Municipal

- **Benefits**
  - Motion detection
  - People loitering
  - People/vehicle count
  - People/vehicle count
  - People/vehicle count
  - Biometric verification
  - Vehicle moving at excessive speeds
  - Waterway monitoring for vessel size or speed
  - Directional alarms
MegaPixel... THE NEW ERA IN SECURITY VIDEO

The superior image quality of megapixel resolution replaces the need of security video. Megapixel and multi-megapixel sensors offer 4 to 32 times more resolution than before. Megapixel images provide the ability to perform 1/10th digital zoom with the added post-processing capabilities. Digital zoom can also be used to reduce video bandwidth and storage costs. Megapixel technology is the choice of next generation surveillance systems.

Megapixel cameras help reduce costs. Give an equivalent level of detail, a single wide-angle megapixel camera can replace several standard cameras scanning a larger area much as traffic intersections, parking lots, government facility installations and maintenance of a single camera greatly reduces system costs.

 Superior quality results with high performance sensors. Progressive scan technology maximizes sensor resolution loading much higher pixels into the system. Superior image resolution imaging, advanced CCD sensors offer extreme low-light capabilities utilizing IR technology.

Designed over 50 years ago, analog video standards limit resolution to 525 or 576 line resolution. Between NTSC and PAL standards, there is yet another issue. Motion vectors (network camera sensor) produces JPEG formats for archiving and video images. JPEG encoding reduces the quality of the video image. Selected resolution encoding. Advanced codecs offer superior low-light capabilities utilizing IR technology.

Current applications: Medium level surveillance systems. The system architecture for network devices offers cost effective and easy expansion. Depending on the apparatus, one can choose from a variety of communication links. TCP/IP transport is the best standard for distances up to 100 meters or 300 ft. The Power-over-Ethernet (PoE) capability of new modems usually means only one cable run is required to connect the network camera unit to the network line. If the camera is close to the processor, IP is the most cost-effective means. In situations where cameras are deployed in different locations, IP is the most cost-effective solution. The PoE network provides power, data, and control to the network cameras.

Why Lumenera

- Leading provider of high-performance surveillance cameras
- Lumenera is a technology partner to many of the world’s leading security and surveillance hardware manufacturers and software vendors.
- Lumenera’s sensors are ideal for wide-area surveillance applications such as airports, borders, factories, oil refineries, prisons and pipelines.
**LEADIN PROVIDER OF HIGH PERFORMANCE SURVEILLANCE CAMERAS**

- Monitoring of rapidly moving people, vehicles, trains, aircraft, etc.
- Automated surveillance for timely response and prevention of security threats
- Protection of major public and corporate infrastructures
- Scalable in large deployments using a camera video content analysis

**LEAD 3** - Wider Detection Range

- General purpose indoor and outdoor surveillance
- Monitoring of city centers, college campuses, and public transportation
- Backlit scenes in airports, train and bus stations, commercial establishments, banks, hotels, etc.
- Deployments using wireless backhaul

**LEAD 1** - Wider Resolution

- Monitoring of rapidly moving people, vehicles, trains, aircraft, etc.
- Surveillance of city centers, college campuses, and public transportation
- Deployments limited to a small number of access control points

**LEAD 1** - **W**-Defensive Security

- Extremely wide-angle high-definition surveillance of large construction sites, airports, borders, ports and other facilities, airports, factories, airports, etc.
- Deployments involving a small number of access control points

**LEAD 5** - **M**-Worldwide Surveillance

- Ultra-wide angle high-definition surveillance of large construction sites, airports, borders, ports and other facilities, airports, factories, airports, etc.
- Multi-rate and multi-standard capability

**LEAD 7** - **R**-With Reliable Performance

- Low-light imaging with ambient light or active infrared
- Monitoring for security
- Protection of homeland, perimeter, border, and airport security
- Monitoring of rapidly moving people, vehicles, trains, aircraft, etc.

**LEAD 7S** and **LEAD 9** -**C**-Effect Reference 1, 1.3 and 1.9 MP Resolution

- General purpose indoor and outdoor surveillance
- Monitoring of city centers, college campuses, and public transportation
- Long range imaging using image-stabilized lenses (6000 mm)
- More cost-effective for low maintenance costs

**LEAD 9S** - **M**-Tech Vision

- Monitoring of rapidly moving people, vehicles, trains, aircraft, etc.
- Surveillance of city centers, college campuses, city centers, city centers, public transportation
- Long range imaging using image-stabilized lenses (6000 mm)
- More cost-effective for low maintenance costs

**SUGGESTED APPLICATIONS**

- Petards Pivot3 SAM Systems
- Wavelet Technology
- Imron Corporation
- Initsys IP Video
- JDS Digital Security Systems
- JVC (VR-N900UNVR)

**OEM CUSTOMIZATION**

For all OEM customers, you can leverage the success of Lumenera’s line of high-performance network cameras.

- Customized solutions
- Custom hardware modifications
- Custom software modifications
- Custom interfaces, as well as custom enclosure designs
- Custom power supplies
- Custom back-panel interfaces
- Selectable image cropping

**MEGAPIXEL... THE NEW ERA IN SECURITY VIDEO**

The superior image quality and megapixel resolution represents the new era of security videos. Megapixel and multi-megapixel videos often fit into 15 to 50 times the image detail when compared to current HD videos. A pixel of resolution provide information filled images with more clarity than ever before. A single megapixel camera can provide better quality images in applications that have traditionally been at the limits of available technology.

- Enhances image detail
- More versatile for liability and privacy
- More accurate decision making by saving time while protecting human resources

Previously, with captured video being used to perform real-time analysis, the video signal needed to be in a high-end, additional digital. Captured images provide the ability to perform a 12-bit digital signal with the additional post processing available. Digital signal can also be sent over an Ethernet (PoE) capable of our new models usually means that only one may interface the camera with a variety of other transmission media.

- More accurate decision making
- More versatile for liability and privacy
- More accurate decision making by saving time while protecting human resources

- More accurate decision making
- More versatile for liability and privacy
- More accurate decision making by saving time while protecting human resources

**WHY MEGAPIXEL**

**SURVEILLANCE VIDEO IS OFTEN USED FOR MAKING CRITICAL DECISIONS. LEGAL LIABILITY AND LEGAL ACTION ARE BEING DETERMINED FOR IMAGE DATA THAT IS DIFFICULT TO INTERPRET. THE INDUSTRY HAS BEEN SETTLING FOR LOWER RESOLUTION VIDEO FROM ANGLE NSC AND PAL VIDEO CAMERAS. THAT'S UNTIL NOW!**

**PI FOR OUTSTANDING RESOLUTION AND IMAGE QUALITY**

Lower overall costs can be achieved with a network solution. Standard video surveillance systems today lack the products to perform efficiently — particularly when adding additional cameras to an installation.

- With billions of IP cameras being installed, corporate, governmental and personnel needs seem endless — security devices of all types are actually impeding the technology. Tight integrating control, access control, communications, and video in an era as complex and costly as never before with the cost of standard IP

- Actual images (x5 digital zoom) comparing analog versus megapixel

**WHY LUMENERA**

- Proven, reliable and cost-effective upgrades (no forklift) as new capabilities are required. You can develop new features to enhance the use, performance and compatibility of Lumenera’s line of cameras.

- Superior quality video output and image processing provides unrivaled color fidelity and image sharpness.

**ON-BOARD IMAGE PROCESSING**

- 2600+ lines of resolution provide information filled images with more clarity than ever before with the cost of standard IP

- Actual images (x5 digital zoom) comparing analog versus megapixel

- Superior quality video output and image processing provides unrivaled color fidelity and image sharpness.

**ADVANCED PHOTO LIGHTING PERFORMANCE**

- Global to All in a single exposure: To build the lighting capabilities, three different systems are used:
- Intensification and dimensional lighting: For euclidian lighting, the camera is shaded or un-shaded (controlled) to increase or decrease the exposure of light.
- Infrared imaging: For iris lighting, the camera is shaded or un-shaded (controlled) to increase or decrease the exposure of light.
- Visible light: For euridian lighting, the camera is shaded or un-shaded (controlled) to increase or decrease the exposure of light.

**LOW LIGHT PERFORMANCE**

- The system architecture for network devices affords cost-effective and critical technology to a variety of applications that have traditionally been at the limits of available technology.

**TOTAL CUSTOMER SATISFACTION**

- The system architecture for network devices affords cost-effective and critical technology to a variety of applications that have traditionally been at the limits of available technology.

**COMPLIANCE AND EFFICIENCY**

- Global to All in a single exposure: To build the lighting capabilities, three different systems are used:
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- Visible light: For euridian lighting, the camera is shaded or un-shaded (controlled) to increase or decrease the exposure of light.
**LEADING PROVIDER OF HIGH PERFORMANCE SURVEILLANCE CAMERAS**

- General purpose indoor and outdoor surveillance
- Automated surveillance for timely response and prevention of operator fatigue
- Protection of major public and private infrastructure
- Scalable to large deployments using on-camera video content analysis
- Deployment using wireless bridges

**LE165 – 1080p Resolution and Upgradable Performance**

- Low-light imaging with excellent light on a black/white scale
- Microlite sensitive for surveillance in low light, perimeter, border, prison, and air ports environments
- Monitoring of high-light moving vehicles, people, aircraft, aircraft, etc.

**LE175 AND LE259 – 1080p Resolution**

- General purpose indoor and outdoor surveillance
- Monitoring of city centers, colleges campuses, public transportation, airports, etc.
- Long range imaging using image-stabilized 35mm lenses
- Mean less cost over IP for live maintenance costs

**LE125 – 1080p Variable Resolution**

- Extremely wide area high definition surveillance of large construction projects, airports, borders and other critical areas
- Analog, digital and a variety of other transmission options
- Deployment limited to a small number of access controlling points

**LE575 – 1080p with video rotation**

- Complete support for the LE125 config.
- Long range imaging using image-stabilized 35mm lenses
- Mean less cost over IP for live maintenance costs

**OEM CUSTOMIZATION**

- As an OEM customer you can leverage the success of Lumenera’s line of high-performance network cameras.
- Lumenera’s broadband cameras are ideal for surveillance and security applications in oil refineries, prisons, ports and marinas, city centers, college campuses, airports, borders, factories, oil refineries, prisons, ports and marinas.

**DVR/NVR SUPPORT**

- Lumenera’s cameras are quickly integrated into most digital network video surveillance systems. Supports any commercial-capture-based DVRs.

**ADVANCED HD-SDI SOLUTIONS**

- High-quality representation in surveillance applications is the primary advantage of SDI broadcast systems compared to other video formats.
- Lumenera’s high-performance cameras are designed for surveillance applications. The LE175, LE275 and LE375 are available in SDI and IP formats. SDI and IP formats are ideal for video transmission over long distances.

**MEGAPIXEL – THE NEW ERA IN SECURITY VIDEO**

- The superior image quality of megapixel technology provides unparalleled surveillance capabilities and high dynamic range.
- Megapixel cameras help reduce camera counts. Many equivalent new applications will reduce the number of cameras needed for a given site. Megapixel cameras offer many unique features such as anti-blooming and selectable image cropping. Advanced CCD sensors offer extreme low-light sensitivity, capturing images in very low light conditions.

**LE075 – HD SDI Resolution**

- VGA Resolution
- VGA Resolution and Ultra-Wide Dynamic Range
- Remote lens control over IP for low maintenance costs
- Long range imaging using image-stabilized 35mm lenses

**IP FOR OUTSTANDING RESOLUTION AND IMAGE QUALITY**

- Lower overall costs can be achieved with a network solution. Standard servers, switching and routing and maintenance processes are less costly — particularly when adding additional cameras to an existing infrastructure.
- With balance of IP devices connected to commercial, corporate and government networks and with smaller networks — security devices of today are automatically being impacted by the technology. Tight integrating cameras, access control, alarm panels, communications and storage is now easier than ever before with the common standard of IP.

**WHY MEGAPIXEL**

- Surveillance video is often used for making critical decisions. Liability and legal action are being determined for image data that is difficult to interpret. The industry has been setting for second generation video surveillance from analog NTSC and PAL video cameras – that’s still... until now.

**WHY LUMENERA**

- Lumenera’s large format CCD cameras are ideal for wide-area surveillance applications such as; airports, borders, factories, oil refineries, prisons and pipelines.

**MEGAPIXEL TECHNOLOGY**

- Leading provider of high-performance surveillance cameras
- General purpose indoor and outdoor surveillance
- Monitoring of city centers, colleges campuses, public transportation, airports, etc.
- Long range imaging using image-stabilized 35mm lenses
- Mean less cost over IP for live maintenance costs

**SUGGESTED APPLICATIONS**

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- General purpose indoor and outdoor surveillance
- Monitoring of city centers, colleges campuses, public transportation, airports, etc.
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**CRITICAL DECISIONS... LIABILITY AND LEGAL ACTION ARE BEING DETERMINED FOR IMAGE DATA THAT IS DIFFICULT TO INTERPRET. THE INDUSTRY HAS BEEN SETTING FOR SECOND GENERATION VIDEO SURVEILLANCE FROM ANALOG NTSC AND PAL VIDEO CAMERAS – THAT’S STILL... UNTIL NOW.**

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### SECURITY NETWORK CAMERAS — FEATURE COMPARISON MATRIX

<table>
<thead>
<tr>
<th>Model</th>
<th>Resolution</th>
<th>Frame Rate</th>
<th>Light Sensitivity</th>
<th>Compression</th>
<th>Interface</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Le075C-DN</td>
<td>720x480</td>
<td>70 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Object appears/disappear</td>
</tr>
<tr>
<td>Le375C-DN</td>
<td>1280x1024</td>
<td>20 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Suspicious package removed</td>
</tr>
<tr>
<td>Le575C-DN</td>
<td>1376x1032</td>
<td>15 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Queue length monitoring</td>
</tr>
<tr>
<td>Le045C-DN</td>
<td>720x480</td>
<td>30 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Waterway monitoring</td>
</tr>
<tr>
<td>Li175C-DN</td>
<td>1376x1032</td>
<td>15 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Directional alarms</td>
</tr>
<tr>
<td>Li165C-DN</td>
<td>1376x1032</td>
<td>15 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>2-way audio over IP</td>
</tr>
<tr>
<td>Li045C-DN</td>
<td>720x480</td>
<td>30 fps</td>
<td>0.005 lux</td>
<td>MJPEG</td>
<td>NTSC</td>
<td>Remote control monitoring</td>
</tr>
</tbody>
</table>

**Note:** Optional # refers to additional **$** features at no cost.