

Advanced Video Surveillance Applications & Technology

Raptor Global Services, Inc. provides a wide variety of security and telecom applications, products and services at cost-effective prices. **Raptor** offers some of the most advanced video surveillance solutions for high-risk situations and hostile environments worldwide. The management of **Raptor** has long been aware of the need for improved video surveillance in sensitive facilities. As such, **Raptor**, in collaboration with its technology partners, has assembled some of the best video surveillance solutions available today.



Raptor's advanced video surveillance systems provide high-resolution wide-spectrum equipment and software that monitor the status of personnel to ensure their safety in potentially hostile situations; prevent the intrusion of unauthorized personnel into critical facilities or perimeters; or monitor and assess potential threats of terrorism or crime in public places. Many of **Raptor's** video surveillance products and services were originally designed for use by the US Department of Defense, and are in use by security agencies around the globe. Military versions of a number of these systems are in use today, supporting critical applications in hostile environments such as Iraq, Afghanistan, Somalia and Bosnia.

'Leading-Edge' Video Technology

Raptor has collaborated with a number of leading equipment manufacturers and software developers to introduce a wide variety of 'turn-key' video surveillance systems for homeland security, perimeter protection and facility monitoring applications. These systems are some of the most advanced available today, yet are relatively inexpensive, easily deployed and simple to operate. Cameras, network video recorders and support systems are designed to integrate into a 'seamless' network. The network is supported by **Raptor's** proprietary '**MIDI**' (multimodal intrusion detection and identification) system.

Raptor video systems support a wide variety of camera, communications, security and powering options including:

- ▶ High-definition IP cameras,
- ▶ Infrared and low-light digital cameras,
- ▶ Remote, IP-based and Internet controlled, mechanical and electronic PTZ HD cameras,
- ▶ Over eighty case options, including low-profile and 'disguised' camera housings,
- ▶ Optional wireless and wireless mesh backhaul capability,
- ▶ Local caching and network management,
- ▶ Advanced video analytics for license plate and facial recognition,
- ▶ Specialized software for electronic 'geo-fence' capability,
- ▶ Power over Ethernet (PoE), as well as alternative powering options,
- ▶ Reliable operation in extreme environmental conditions, including heat, cold and dust,
- ▶ High-capacity batteries with up to one week of battery life without charging.



Video Analytics

Video analytics is a technology that uses various image processing algorithms to intelligently monitor real-time or stored video for specific information such as facial recognition, age determination, upper and lower body color determination, skin color determination, height evaluation, people count, left-behind objects, motion detection, vehicle direction and acceleration, restricted area incursion, etc. Intelligent video technologies have historically fallen short of expectations. Traditionally, companies within specific expertise have tried to generalize their technology. This approach does not provide the focused expertise required for effective video analytics. As such, Raptor partners with companies specializing in “best of breed” analytics such as object tracking, people tracking, and behavior analysis to provide the customer a total intelligent security solution.

Facial Recognition

Raptor video surveillance systems are supported by **EclipseIR**, a company specializing in “best of breed” analytics, such as object tracking, people tracking, and behavior analysis to provide the customer a total intelligent security solution. **EclipseIR** has developed its proprietary recognition engines for analysis of multiple video streams to identify “persons of interest” by biometric and personal characteristics. Driven primarily by the requirements of law enforcement and intelligent security, the company has developed a world-class Facial Detection Engine. The key differentiator is the ability to detect facial and identity characteristics in adverse video conditions, due to low-quality cameras, poor lighting, moving subjects, and partially visible faces. Moreover, the engine can detect multiple faces within a single frame. The Identity Recognition Engine works in conjunction with the Facial Detection Engine, to rapidly search databases of existing faces, to identify individuals. Enhanced technology modules add sophisticated video analysis and search capabilities for forensic applications in law enforcement, military, homeland security and public safety.

The Video Surveillance Market

The video surveillance marketplace is comprised of a broad spectrum of applications and end-users, ranging from the placement of cameras in the local convenience store, to advanced systems monitoring the most sensitive military installations. With that in mind, it is important to note that **Raptor’s** video surveillance systems are designed for homeland security, drug interdiction, facility monitoring and crime prevention applications by government, public safety, military and enterprise-level security specialists in sensitive areas. **Raptor does not support video surveillance services at the ‘consumer’ or ‘commercial’ level.**

Contact Information

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