

Enhancing Energy Assets

pixelvelocity®
Insight Accelerated

Reducing Operational Costs – Improving Efficiency



Pixel Velocity: Intelligent Asset Monitoring

At Pixel Velocity® we understand that even the shortest interruption of operations is a critical loss, so we deliver versatile software solutions and intelligent edge sensors that continuously monitor and alert our clients to potential issues before they become costly events.

Our signature product, **Event Velocity®** delivers unified management and remote monitoring of operations including safety, security, environmental and industrial controls at a low monthly service cost. It is the most comprehensive solution for enhanced multi-site monitoring and real-time analytics in the energy industry. It delivers a unique suite of disruption risk mitigation tools, including **continuous leak detection, asset monitoring, and automated activity detection** so you can optimize your operations across large scale environments. Asset performance is analyzed in real time and presented in an actionable and sharable format.

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Real-time insight and remote visualization of machines and instruments enable operators to improve maintenance efficiency

Maximize Operational Performance by Minimizing Disruptions

To deliver operational continuity, our hydrocarbon leak detection system pinpoints small gas leaks and emissions remotely, alerting automatically and immediately. The speed of detection supports proactive leak repair that can avoid disruption and costly shutdowns by:

- **Capturing real-time site activity and asset performance**
Delivering site visualization and SCADA integration at the edge of your operations
- **Helping energy operators ensure higher levels of reliability and continuity** across asset fleets and the value chain while reducing staff requirements or responsibilities.
- **Integrating real-time imagery and data analytics** into advanced event management and response protocols that shorten response cycles and provide enterprise-wide intelligence.
- **Offering high-value data streams** that scale to support asset integrity and enhanced revenue continuity.

OUR SOLUTION:

Event Velocity

Event Velocity is designed to provide significant ROI in terms of manpower optimization, seamless integration of disparate control systems and automated detection of anomalous operational conditions. Event Velocity fuses video, sensors and industrial control system inputs. It automates remote monitoring of site activity and hydrocarbon leak detection. Pixel Velocity's intelligent sensors bring you an unprecedented ability to visualize operations, safety and security performance in real time.



Improve Response Times through Coordinated Communication

Each **Event Velocity** enterprise management platform facilitates real-time communication and response in critical situations through:

- **Immediate leak detection** with precision clarity on disruption prevention, helping operators ensure continuity.
- **Multi-site and multi-sensor detection**—including hydrocarbon leak, anomalous activity, operational malfunctions and SCADA events—in an integrated dashboard.
- **Operations, Safety, Environmental, and Security Departments can all coordinate in real time** to dramatically reduce incident response cycles.

Reduce Costly Damage by Decreasing Vulnerabilities

Continuous, real-time monitoring of physical facilities and surrounding perimeters helps reduce the threat and extent of costly damage. Immediate analysis and response is possible through our state-of-the-art equipment, which includes:

- **High-definition time** and spatially synchronized sensors (patented).
- **3D model-based video analytics** and multi-sensor composite panoramic view.
- **3D cross-sensor tracking** that enables continuous target monitoring.
- **Meta-Data Engine** (real time response/post event).
- **Multi-sensor Fusion** (i.e., RFID, Access Control, Fire, Safety, Mechanical, Environmental, etc.).
- **Field upgradeable FPGA technology.**

Improve Safety Performance through Continuous Leak Detection

With automated analytics and 24/7 coverage of assets and locations, leaks are detected as they occur, not hours or days later. Benefits of continuous monitoring include:

- Leaks can be corrected immediately.
- Detection response personnel do not face unknown risks.
- Enhanced safety at local, regional and enterprise levels.
- Public relations advantages of fewer public, regulator and safety concerns.
- Safer operating conditions across new and aging infrastructure.
- Proactive regulatory focus on preventive maintenance.
- Correlation of detection events into patterns to help operators and response teams prevent disruption in operations, safety, and security.

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Contact Sales at **734-369-5048** or visit us at www.pixel-velocity.com to learn more.