


Product Overview

BLUEHAWK™ SENSORS

Non-Contact Water Monitoring for
Hydrocarbon Contamination & HABs

CFRS™ | Long Range | Real-Time Data & Alerts | Fixed & Mobile

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Challenge: Detecting Critical Environmental Threats — Oil/Fuel Spills & HABs

Hydrocarbon contamination and harmful algal blooms (HABs) in surface waters pose serious risks to utilities, environment, and economy. Certain traditional monitoring methods for these threats may be inaccurate, costly, high-maintenance, inefficient, or providing data too late for timely response.

Solution: Continuous, Non-Contact Water Monitoring for Complex Threats

BlueHawk Sensors are purpose-built to address two of the most critical water threats: oil/fuel spills and harmful algal blooms. These sensors leverage multispectral fluorometry and patented CFRS™ technology to enable monitoring applications previously impossible with traditional methods. They complement existing systems, replace outdated approaches, and reduce the need for site visits, manual sampling & lab work.

Key User Benefits

- **Early Detection:** Rapidly identifying spills and harmful algal blooms helps minimize environmental and economic impact.
- **Environmental Compliance:** Support regulatory compliance and responsible water resource stewardship.
- **Low-Maintenance Monitoring:** Autonomous non-contact operation prevents biofouling and minimizes site disruption, delivering consistent data ideal for long-term monitoring.
- **Real-Time Control:** Continuous data and automated alerts enable immediate flow, intake, and source management plus enhances treatment and system optimization.
- **Improved Efficiency:** Reduce site visits and manual sampling while eliminating lab and satellite delays.
- **Data-Driven Insights:** Provides continuous data for trend analysis, predictive modeling and anomaly detection.
- **Flexible Installation:** Deploy 30+ ft above water for fixed, pan-tilt, or mobile monitoring (drones, vessels, buoys).
- **Scalable:** Multiple models & configurations to match needs.
- **Compatibility:** Flexible connectivity options ensure integration with legacy analog and modern digital systems.



Intake water protection



Bridge-mounted monitoring



Port water monitoring



Mobile monitoring