



novecom

Precision Monitoring and Support Solutions

**Leaders in environmental monitoring systems for
the mining, agriculture, manufacturing, transport,
construction and defence sectors.**

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At Novecom we specialise in turning complex problems and data into straightforward, relevant and real-time business solutions.

Our innovative approach ensures significant improvements in environmental compliance and operational efficiency. Through advanced platforms like **SentineX®**, **SynaptiX®** and **Intercepta®** we help businesses understand their data and make informed decisions.

Why Choose Novecom?

Our solutions are tailored to meet the specific needs of your industry and site conditions. We provide continuous monitoring and real-time data to help you make informed decisions. Utilising artificial intelligence and innovative technology, our solutions are at the forefront of environmental monitoring. Our technical support team is always ready to assist with maintenance, troubleshooting, and optimisation of your monitoring systems.

Our solutions:

Noise Monitoring

- Comprehensive noise assessment and classification.
- Compliance monitoring using Omni-Directional and Quattrosound Directional Noise Monitors.

Dust Monitoring

- Real-time particulate monitoring.
- Options for both fixed and portable dust monitors to suit different site requirements.

Water Monitoring

- Monitoring water quality, discharge, and levels.
- Stream gauging to ensure accurate water management.

Weather Monitoring

- Automatic weather stations and rainfall monitoring stations.
- Providing real-time data to support operational decisions.

Blast Vibration Monitoring

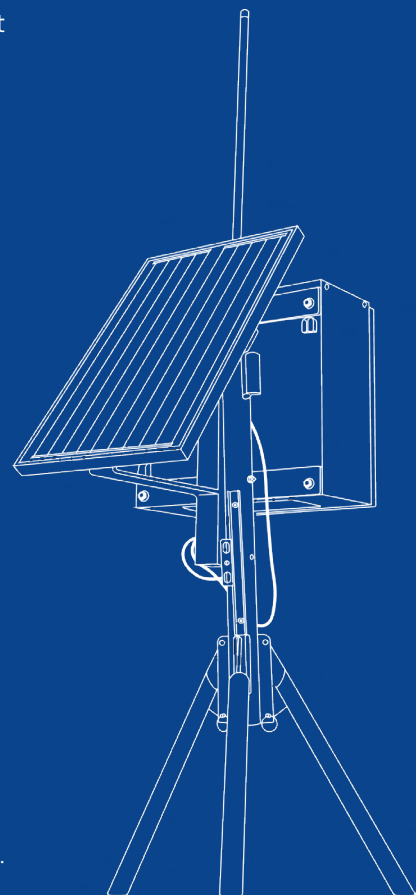
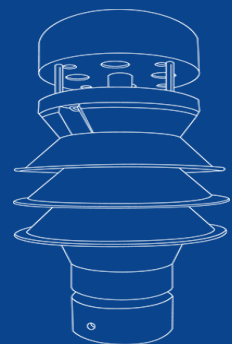
- Capturing and reporting mine blast data.
- Real-time access to information via our Cloud application.

Traffic Monitoring

- Monitoring traffic behaviour on-site.
- Enhancing road safety and promoting positive driver behaviour.

Service and Support

- Comprehensive site-based periodic maintenance, breakdown, and installation services.
- Remote monitoring of field equipment to ensure maximum uptime.



SentineX

remote data acquisition and reporting

SentineX® is an advanced Environmental Monitoring System offering continuous monitoring of environmental parameters such as air quality, noise levels, and weather conditions. With detailed data analysis and instant alerts for threshold breaches, curated by our expert team it is highly customisable to meet specific monitoring needs, allowing remote access and control via a web-based interface. It is ideal for industries demanding reliable and comprehensive environmental monitoring solutions.

Primary Applications:

- **Mining Operations:** Monitoring dust, noise, blast vibration, weather and other environmental parameters to ensure safe and sustainable mining practices.
- **Agricultural Settings:** Tracking weather conditions and environmental factors to optimise farming practices and protect crops.
- **Industrial Sites:** Monitoring air quality, noise levels, and weather conditions to ensure compliance with environmental regulations and improve worker safety.
- **Construction Projects:** Tracking environmental impacts such as dust, noise, and vibration to minimise disruptions and adhere to regulatory requirements.
- **Urban Areas:** Providing real-time data on air quality and noise pollution to help city planners and authorities manage urban environments and development projects more effectively.



Key Features:

- **Real-Time Monitoring and Instant Alerts:** Continuous 24/7 monitoring of environmental parameters such as air quality, noise levels, and weather conditions. Instant alerts and notifications when certain thresholds are exceeded.
- **Data Collection and Analysis:** Comprehensive data collection with detailed analysis and reports to help users understand environmental impacts and current situations.
- **Comprehensive Support Solutions:** Our dedicated team provides an extensive range of service and support options throughout the entire implementation and operational lifecycle. We ensure your environmental monitoring infrastructure operates at peak performance.
- **Customisable Solutions:** Tailored to meet your monitoring needs and requirements. Our solutions adapt to various environments, ensuring optimal performance and reliability.
- **Remote Access:** Web-based interface for remote access and control of the system, allowing for real-time monitoring.



SynaptiX

Industrial IoT

SynaptiX® is a versatile IoT platform designed for industrial, and agricultural applications. It offers a comprehensive data acquisition and telemetry solution, and integrates with various sensing devices to monitor and control remote and distributed systems. Supported by the SynaptiX Cloud service, it provides real-time data and digital intelligence to help users manage their operations efficiently and maintain regulatory compliance.

Primary Applications:

- **Floodplain Harvesting:** Measuring and reporting water storage data to comply with regulatory requirements.
- **Industrial Operations:** Monitoring and controlling remote and distributed systems to optimise performance and ensure regulatory compliance.
- **Agricultural Settings:** Collecting data on weather, soil moisture, and water levels to improve farming practices and manage resources efficiently.
- **Construction Projects:** Tracking equipment and monitoring environmental impacts to enhance project management and compliance.

Key Features:

- **Seamless Integration:** Integrates with a wide range of sensing devices to monitor various environmental and operational parameters, using the SynaptiX Collector.
- **Real-Time Monitoring:** Provides continuous data collection and real-time monitoring through the SynaptiX Cloud service.
- **Customisable Solutions:** Tailored to meet specific needs in industrial, mining, and agricultural applications.
- **Robust Connectivity:** Utilises a variety of technologies for seamless connectivity through SynaptiX Connect.
- **Specialised Modules:** Includes modules SynaptiX BVM for blast vibration monitoring and SynaptiX LID for floodplain harvesting measurement.
- **Remote Access and Control:** Allows users to access and manage data remotely via a user-friendly interface SynaptiX Tracker.

SynaptiX Collector



Dam Level Monitoring

INTERCEPTA

SMART RADAR CAMERA

Change driver behaviour, improve road safety, reduce speeding and monitor traffic with Novecom's traffic monitoring solution **Intercepta®**. Powered by a smart video processor and capable of operating 24hrs, the Intercepta is a mobile speed camera and message board that monitors and records traffic infringements as well as individual vehicle data.

Primary Applications:

- **Mining Operations:** Ensures speed compliance and safety in mining sites. Monitors heavy vehicle movements and dangerous road sections.
- **Transport and Logistics:** Manages fleet movements and ensures compliance with speed regulations. Improves overall road safety for transport vehicles.
- **Construction Projects:** Enhances safety in road work zones. Provides real-time traffic assessments and risk mitigation
- **Urban Areas:** Supports traffic flow analysis and intersection monitoring.

Key Features:

- **Continuous and Autonomous Operation:** Intercepta operates 24/7 with a solar power design. This feature allows for flexible deployment in remote or off-grid locations, ensuring uninterrupted operation.
- **Large LED Message Board:** Intercepta includes a prominent LED message board that displays real-time information to drivers.
- **Real-Time Monitoring and Infringement Reporting:** Intercepta provides immediate alerts when a speeding event occurs. These alerts are sent to designated email addresses and include video footage, speed data, location and time of the incident.
- **Automated Summary Reporting:** The system generates automated summary reports that compile data over specified periods. These reports provide insights into traffic patterns, compliance rates, and other key metrics, helping HSE Managers to monitor and improve safety protocols effectively.




Operating with a mobile communication trailer, Intercepta encompasses a suite of technologies which monitor and record traffic as well as individual vehicle data.





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