

munisense

Controlling Noise



Working together for a healthy
and livable acoustic environment



Efficient enforcement

Optimal deployment of scarce personnel

Self-regulation

Up to 30% less inconvenience

Continuous deep insight all year round

Insight into annoyance and the quality of the noise environment as a basis for policy

Real-time nuisance analysis

Direct feedback on nuisance complaints

Building block for citizen participation

Citizens feel heard and involved

Well-known and proven

Organizers and sound experts know the platform

Always insight
and
direct feedback

INSIGHTNOW™



Enforcement,
management
and policy

Insight in actual
nuisance and
adjustment





A healthy living environment starts with control of noise

Alongside air quality, sound is one of the key factors in creating a healthy environment. Municipalities face the challenge of enabling vibrant city life while keeping noise pollution under control.

Munisense Noise Services helps governments and organizations make noise visible, measurable, and manageable. Through continuous monitoring and real-time insights, it provides an objective picture of the acoustic environment — supporting evidence-based policy and effective enforcement.

Less nuisance, a better noise environment and more engaged citizens.

From measuring to understanding and improving

The Munisense INSIGHTNOW™ platform combines intelligent noise monitoring systems, advanced data analytics and user-friendly dashboards.

Authorities, businesses and residents gain insight into:

- Where and when noise disturbance occurs
- What the main sources are (events, hospitality, nightlife, construction, traffic, industry, fireworks, etc.)
- How policy, communication, and awareness can reduce nuisance

Continuous insight and feedback can prevent more than 30% of noise complaints. When people become aware of their impact, they naturally adjust their behavior.

*Measuring becomes understanding.
Understanding becomes improvement.*

Working together for a livable city

Munisense makes sound visible, understandable, and discussable.

Through citizen portals, residents gain accessible insight into their acoustic environment and can provide feedback.

This builds trust, encourages collaboration, and strengthens the feeling of being heard.

The combination of **technology and participation** ensures a sustainable approach to noise management - transparent, measurable, and fully aligned with environmental legislation.



Applications

From nuisance to insight

By continuously measuring sound, noise pollution becomes immediately visible.

The latest generation of Munisense monitoring systems analyzes noise by source, location, time, intensity, and level of disturbance.

This allows municipalities to respond quickly to reports, while businesses gain insight into their impact and prevent nuisance through self-regulation.

Music events and festivals

Music events bring life to cities — and sometimes noise complaints.

With permanent monitoring, municipalities and organizers gain real-time insight and can take immediate action. That prevents complaints, improves enforcement efficiency, and builds resident trust — the reason more cities choose the Munisense platform.



Hospitality noise

Bars and clubs can generate disturbance. With horecaSense, entrepreneurs monitor sound levels online and via displays, while municipalities track centrally and enforce selectively.

The result: lower sound levels, fewer complaints, and better cooperation between authorities and hospitality venues.



Night-time noise

In busy nightlife areas, outdoor sound often causes nuisance. Munisense sensors detect and visualize these sounds in real time. Municipalities can focus supervision, evaluate policy, and compare areas.

“Nudging” projections encourage quieter behaviour. Less night noise without extra enforcement: a smart balance between vibrancy and peace.

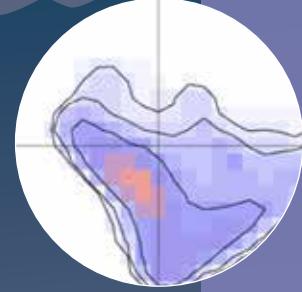
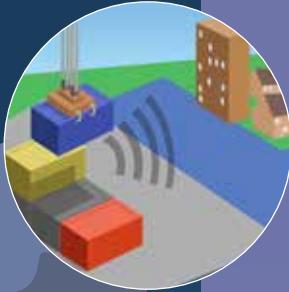


Construction noise

Urban construction inevitably causes noise — but it can be managed.

The Munisense platform gives contractors real-time insight, compares results against limits, and predicts exceedances. Automatic reports and dashboards support compliance while public portals ensure transparency for nearby residents.





Loud vehicles and traffic

Munisense sensors measure sound intensity in real time and identify loud vehicles by speed, direction, time, and location. Dashboards visualize the data clearly. Optional Sound Information Displays warn drivers instantly when limits are exceeded, reducing noise. Combined with ANPR and video, this provides a strong foundation for targeted traffic measures and enforcement.

Industrial noise

Industrial and logistics areas often generate nuisance, especially during evenings and nights. Permanent monitoring gives companies and regulators real-time insight into sources and moments of disturbance. Correlating source and receiver speeds up resolution, fosters dialogue, encourages self-regulation, and reduces peak noise.

Soundscapes - from measurement to perception

Sound quality is not defined by volume alone but by experience. The soundscape approach captures the human perception of sound, helping policymakers align measures with what residents truly experience.

Citizen measurement networks

In citizen-science projects, residents measure noise themselves using compact sensors connected to the Munisense platform. High-resolution data and sound recognition complement permanent measurement points — creating a shared network where municipalities, citizens, and experts collaborate on a quieter, more pleasant environment.

Fireworks detection

Munisense sensors locate explosions within 10 seconds and notify police or enforcement officers via app. The INSIGHTNOW™ platform displays real-time and historical data to analyze trends, identify risk areas, and optimize policy responses.

Technology and platform

INSIGHTNOW™

The INSIGHTNOW™ platform is the heart of Munisense services.

Measurements are stored, analysed, and displayed in real time via customizable dashboards.

Users can set thresholds, receive alerts, and generate reports.

The scalable, modular system meets ISO 27001 standards and integrates easily with other platforms. Privacy is guaranteed through secure hardware, anonymized audio data, and compliance with GDPR, ISO9001, ISO14001 and ISO27001.

From insight to full control of sound

Package

Essential

Advanced

Premium

Purpose

Basic Insight

Insight + Control

Insight + Control + Analysis

Key features

Core parameters, 1-minute data and optional public portal.

Essential plus detailed analysis, correlation functions, limited audio, sound localization, optional sound recognition and application specific dashboards.

Advanced plus highest resolution data, audio storage, HMRI reporting, unlimited use, sound recognition and localization.

From insight to control, from control to policy.



The Noise Monitoring Stations

Munisense offers compact, energy-efficient sound monitoring systems for both temporary and permanent deployment.

They measure with high precision (Class 1 and 2), automatically recognize and locate sounds using AI, and send data in real time to secure Dutch data centers.

Low-maintenance, cost-efficient, and fully integrated with INSIGHTNOW™ with built-in privacy protection.



Temporary monitoring

Ideal for short-term investigations or complaint follow-ups.

Compact, energy-efficient systems operate up to seven days on battery power or for months via solar or external power packs.



Permanent monitoring

Designed for continuous measurement in urban or industrial environments - delivering high accuracy and low total cost of ownership.



Horecasense and citizen science

Munisense provides indoor and façade-mounted sound stations for hospitality venues.

Easy to install, the equipment supports all relevant sound parameters and connect via Wi-Fi to local displays and the INSIGHTNOW™ platform.

Technology with social impact

Controlling sound means more than just measuring it.

It represents a new way of collaborating on environmental quality, where technology, policy, and citizen engagement reinforce one another.

With the Munisense Noise Services platform, municipalities, businesses, and residents gain insight, confidence, and control over their acoustic environment.

The result:

Less noise, more understanding, and a healthier environment for everyone. Technology with social impact.

About Munisense

Munisense develops, produces, supplies and manages innovative measurement solutions for businesses and governments. Solutions that give stakeholders direct online insight into noise, water quality, water levels and air quality. The information is online available at any time for visualization, analysis or periodic reports. This way managers and policymakers can measure in real time; remotely, reliable and smarter.

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INSIGHTNOW™

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