

UBY Environment

ENVIRONMENTAL MONITORING SOLUTION



A powerful and intuitive solution that delivers the actionable information needed to respond fast to potential environmental issues, prevent project disruption and simplify reporting.



Acoustic monitoring

- Class 1 and class 2 sound level meters
- Omnidirectional microphones
- Ultrasonic microphones
- Visual display of sound source using on-board
- 360-degree cameras
- AI algorithms identify what caused the noise (equipment, traffic, voice etc.)
- Ambient sound monitoring
- Automatic recording of sound



Water quality monitoring

- Surface water and groundwater
- Monitor water level and speed
- Temperature
- Pressure
- Conductivity and pH
- Turbidity and MES
- Oxygen concentration and saturation



Air quality monitoring / weather station

- Interior and exterior
- Fine particulates (PM1, PM2.5, and PM 10)
- Gas and odours (detect up to 6 gases)
- Temperature and precipitation
- Humidity
- Atmospheric pressure
- Wind speed and direction



Traffic monitoring

- Smart optical sensor
- Vehicle count by type (bike, motorbike, car truck)
- Congestion
- Detects dirt and blockages on road



Vibration monitoring

- Vibration spectrum analysis
- Three-axis testing
- Autonomous operation for up to 1 year (battery, solar panel)
- External memory (SD card)



Utilities monitoring

- Wireless connection for remote reading
- Supports two distinct readings per meter
- Water
- Gas
- Electricity
- Thermal energy

SOLUTION

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SMART SENSORS

Deploy a network of patented AI powered sensors to measure and monitor all categories of environmental impacts, including the location, intensity and source of noise, vibration, air quality, water, traffic, and more.

ONE ONLINE PLATFORM

Check your worksites from anywhere and get real-time alerts if thresholds are exceeded. Receive automated reports, customised to project and schedule, and simple to share with all stakeholders.

ENJOY GOOD COMMUNITY RELATIONS

- ▶ Address environmental concerns proactively and avoid complaints,
- ▶ Ensure compliance and meet all contractual obligations,
- ▶ Stand out by addressing CSR commitments confidently.

Case study



Pasteur Block, Monaco

The government of Monaco asked us to locate and identify all noise throughout an urban renovation project. The aim was to determine if the noise pollution did or did not actually come from the construction site.

Value : 190 k€
Project duration: 2020 to 2023