

**Soft dB**

# Monitoring Solutions

**Environmental  
Measurement Stations  
With Web Monitoring**

[www.softdb.com](http://www.softdb.com)



## ALL YOU NEED TO KNOW 24/7

**Maximize your operations and maintain regulatory compliance with real-time environmental monitoring**

Soft dB Monitoring solutions offer state-of-the-art environmental measurement stations with an integrated web monitoring service that allows you to know your environmental emissions in real time, 24/7.

With Soft dB monitoring solutions, you can monitor sound levels, vibration levels, weather conditions, dust concentration and more at any time.

This overview of your activities gives you the information needed to plan your operations, regardless of your industry or the nature of your projects.





## CAMERA

The Soft dB monitoring stations allow you to keep an eye on the field, as if you were there, regardless of your location. The cameras used are PTZ type, so they allow you to both rotate and zoom +/- . The filmed images are broadcast live on our platform. You can replay sequences of your choice at any time.



## VIBRATIONS

The stations provide 3-axis vibration measurements that can be used for quantifying human perception as well as for determining the impact on the building structures.

## NOISE

Soft dB environmental monitoring stations provide Class 1 noise measurement accuracy.



## TRAFFIC

Stations measure traffic trends on the roads. The radar can track up to 10 moving vehicles at the same time, counting the speed, direction, and size of the vehicle.



## ALL YOUR METRICS IN ONE PLACE

The only technology that allows you to know precisely all your environmental emissions in real time, 24/7.



## DUST

The stations provide accurate measurements of the concentration of particles in the air by using a highly sensitive laser nephelometer. Data is available in TSP, PM10, PM2.5 or PM1.0.



## TEMPERATURE

Soft dB environmental monitoring stations provide an integrated temperature measurement station that measures barometric pressure, humidity, precipitation, wind speed and direction, and solar radiation strength.



## HYDROACOUSTIC

Soft dB monitoring stations are very versatile and can be supplemented with additional sensors such as hydrophones for underwater noise measurement.

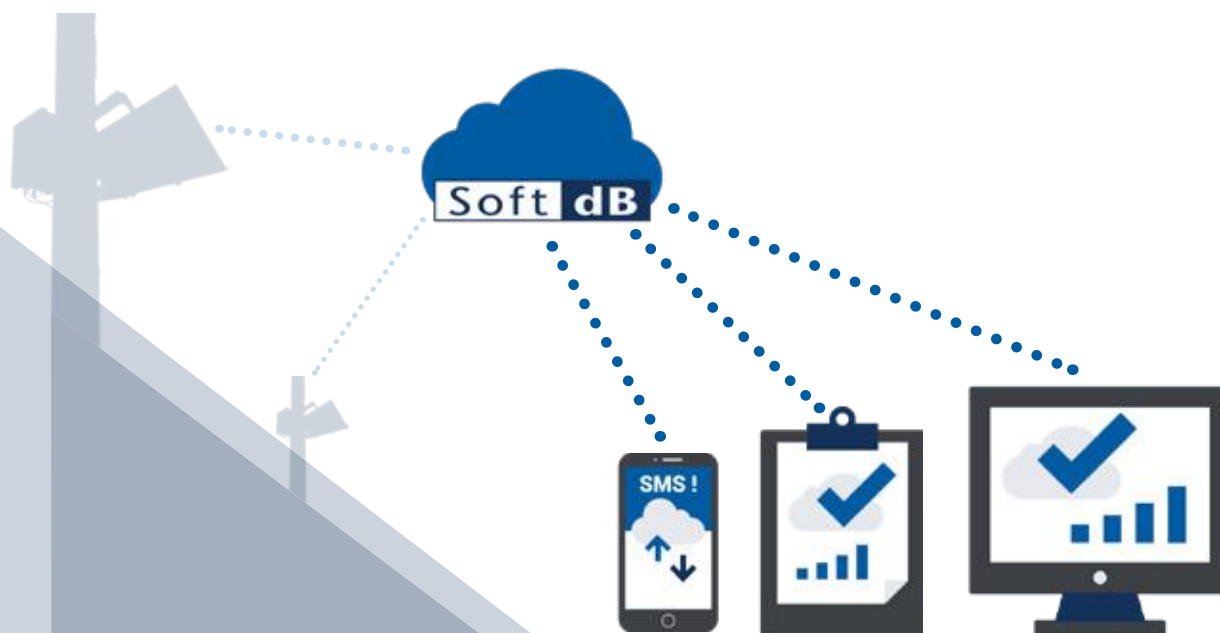
## OVERVIEW

Soft dB Monitoring solutions offer a turnkey, integrated approach for your environmental monitoring needs.

Modular measurement stations can collect sound, vibration, weather, dust concentration, vehicle counting and underwater acoustic data. In addition to levels, audio / video recordings can also be made.

The data collected by the measurement stations is sent via a 3G / LTE network to secure Soft dB servers. The data is made accessible through an interactive web interface. In addition, daily automatic reports can be emailed and instant exceedance alerts can be sent via SMS or email.

Using the Soft dB monitoring solution also gives you access to technical support, maintenance and a data validity service that gives you peace of mind and allows you to focus on your core business.



# STAY INFORMED



## WEB INTERFACE

The interactive web interface allows you to easily analyze the data collected by the measurement stations. It not only gives you the current data from the station, but it also allows you to have access to the full data history of the station. In addition to the digital data collected, this interface provides access to audio / visual events with a simple click on the history graph.



## AUTOMATED REPORTS

Daily automatic reports are a great way to get a quick overview of your activities. Sent by email at midnight every day, they represent the history of the hourly levels of the past day. In addition, limit values not to be exceeded can be created and an associated color code makes it possible to clearly identify any exceedance periods.



## EXCEEDANCE ALERTS

Exceedance alerts can be sent by text message and / or email. These alerts are sent as soon as a level exceeds the pre-set limit. In order to adapt to your operating conditions, several parameters are available to adjust these alerts:

- ! Different limits for day, night and weekends;
- ! Different recipients for day, night and weekends.

# ADVANTAGES

## Quality Results

- We ensure that the data collected is of high quality and relevant to your activities;
- We use our recognized expertise in noise and vibration analysis;
- We ensure that the equipment is calibrated according to the applicable standards.

## A Simplified Operation

- We take care of the operation of the monitoring system, giving you peace of mind;
- We are your supplier for all elements of the system which guarantees compatibility;
- The web interface, automatic reports and SMS alerts allow you to stay informed 24/7;
- Data hosting and 3G / LTE communication is included in the package;
- Simplified monthly pricing gives you access to environmental monitoring at a remarkably affordable price.

## Full Support

The Soft dB Monitoring service entitles you to the Soft dB Technical Service and Maintenance. We take care of ensuring that your measuring stations are in operation 24/7.

- Technical support;
- Maintenance and calibration service;
- Monitoring and verification of the quality of the data collected.

With Soft dB Monitoring solutions, you do not have to worry about how your system works. You can fully focus on your activities.



# SPECIFICATIONS

## Sound Measurements

Microphone	Class 1 with all-weather protection
Measurement periods	4 independent periods (typically 30s, 5min, 15min, 1h)
Data	L <sub>Aeq</sub> , L <sub>Ceq</sub> , L <sub>Zeq</sub> , L <sub>MAX</sub> , L <sub>MIN</sub> , L <sub>N%</sub> , 1/3 octave and FFT
Standards	IEC 61672, IEC 61260

## Vibration Measurements

Vibration sensor	Triaxial seismic accelerometer with ISEE standard enclosure
Data	Acceleration, velocity, Pk, AVG, PPV, 1/3 octave, FFT
Frequency band	1 Hz to 600 Hz
Overpressure	Measured with the acoustical microphone
Standards	ISO 8041, ISO 2631-2, DIN 4150-2/3, ANSI S2.71, USBM, IEC 61260
Measurement periods	4 independent periods (typically 30s, 5min, 15min, 1h)
Vibratory events	Detailed events recorded on trigger (threshold exceeded)

## Weather Measurements

Data	Temperature, humidity, atm pressure, wind, rain – average, maximum, minimum
Measurement periods	4 independent periods (typically 30s, 5min, 15min, 1h)

## Dust Measurements

Data	PM <sub>10</sub> , PM <sub>2.5</sub> , PM <sub>1</sub> or PM <sub>TOT</sub> – average, maximum, minimum
Measurement periods	4 independent periods (typically 30s, 5min, 15min, 1h)

## Road Traffic Measurements

Data	Number of vehicles, direction, average speed, max and min, vehicle class
Measurement periods	4 independent periods (typically 30s, 5min, 15min, 1h)

## Audio/Video Recordings

Camera	640x480, 1 FPS
Audio	MP3
Recording	On initiation and/or periodic





# CONTACT US

## Head Office

1 (418) 686-0993

1 (866) 686-0993 (toll free)

[monitoring@softdb.com](mailto:monitoring@softdb.com)

## Ontario Office

1 (437) 317-0790

1 (877) 774-3800 (toll free)

[ontario@softdb.com](mailto:ontario@softdb.com)

## Europe Office

+352 621 64 61 03

[europe@softdb.com](mailto:europe@softdb.com)

[softdb.com/monitoring](https://softdb.com/monitoring)

A photograph of two construction workers in orange safety vests and yellow hard hats working on a concrete slab with rebar. One worker is on the left, leaning over, and the other is on the right, also leaning over. They are surrounded by construction materials and tools.

**Soft dB**