Datasheet

SMART NOISE SENSOR WITH DIRECTIONS AND PICTURES CAPTURED

uNoise

Description

General features: measures, locates, identifies and alerts against noise pollution.
The **uNoise** sensor works like an acoustic camera, monitoring the noise level continuously and visually identifying its source.
The visual identification system takes 180° or 360° photos every 30s or when thresholds are exceeded.
There is a continuous audio recording with noise recognition option.
The measuring system is class 1 (norm NF EN IEC61672-1 and IEC61260-1) with a local storage in case of transmission problem.

Specifications

Data: Decibels (dB) as Laeq, LA10/50/90+1/3 Octave.
Measured quantities:

- LAeq, LCeq, and Lzeq
- LAmin, LAmax (Fast, Slow, or Impulse)
- LCpeak, LZpeakLA10, LA50, and LA901/3-octave from 6.3 Hz to 20 kHz
- Or octave from 8 Hz to 16 kHz
- Selectable measurement interval between 1 s and 1 h

Measurement range: 32 to 132 dB
Frequency range: 3 Hz to 20 kHz
Network: LTE-M/Wifi
Power supply: 12V or solar panel 100W (option)
Power consumption: battery 30Ah (around 3 days of autonomy)
Gross weight: without battery 1,4kg. Battery case 5kg (including 30Ah LiFePO4 battery)
Total dimensions: 50cm x diam 15cm
Fixation Method: clamp/screw
Direction: Azimuth and elevation of the main sound source with a resolution of 2.5°, calculated for all integration times
Operating temperature range: -10°C to 50°C
Relative humidity range: 25% to 90%
Daily microphone **calibration self-test**

Technical requirements and maintenance

Required item: LTE-M network or Wi-Fi coverage, main power source and a high mounting point (ideally with a 360° view on the site)

Maintenance: Remote supervision by UBY support team. Calibration of microphones every 2 years.

Battery case (including 30Ah LiFePO4 battery)

You can connect a solar panel via the 15–30 Vdc PV port,

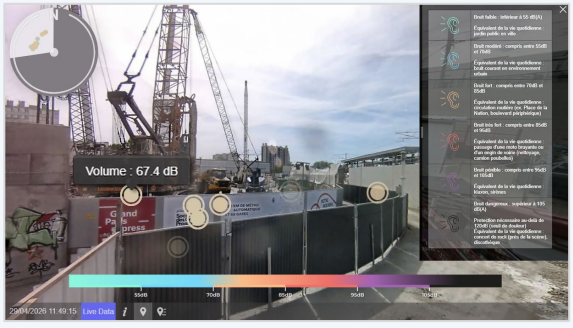
or a power supply via the 100–240 Vac port.

FAQ

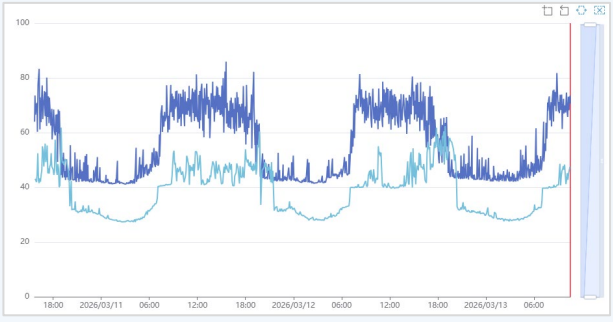
Do you need a permit ?
Authorisation and, in some circumstance, formal permits to install will likely be required.

What is the range of the sensor ?
The sensor and camera can detect a noise event up to 100m (109 yd) away.

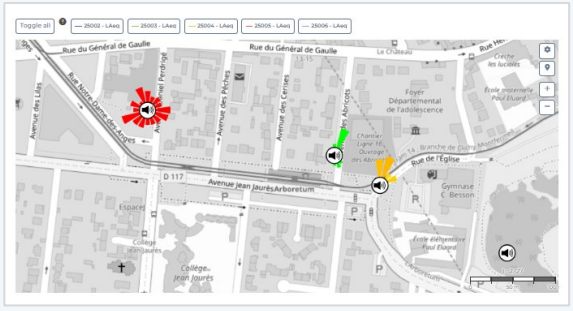
Is the sensor compliant with people privacy and personal data regulations ?
The sensor and its associated software and algorithms are fully compliant with European personal data regulation (GDPR). Blurred portions of the pictures can be defined by user, and all faces and licence plates are dynamically blurred. No unblurred image is stored. Furthermore, images of any sensitive or secure area are digitally blocked.



Visualization of sensitive areas noise events with their exact location and intensity



Example of data plot (LAeq, LA10 and LA90)



Identification of noise sources and localization of their origin with recording.

France – Europe centrale
+33 1 84 80 68 54
contact@uby.com
www.uby.com

Australie
+61 422 628 452
jcreighton@uby.com
www.uby.com/en

Canada
+1 514-883-1783
eskaf-ext@uby.com
www.uby.com/en

Etats-Unis
+1 518-961-0756
kcampbell@uby.com
www.uby.com/en

Hong-Kong
+852 6171 3597
jly@uby.com
www.uby.com/en

Monaco
+33 6 43 91 33 10
ebloch@uby.com
www.uby.com

Royaume-Uni
+44 20 3059 9465
ukenquiries@uby.com
www.uby.com/en