

DIAL, the GPS wristband saving lives



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1. What is it?

DIAL is a GPS beacon in a wristband to stay connected with your loved ones and the rescue services in case of emergency.

DIAL is a waterproof GPS beacon connected to GSM/GPRS mobile networks. It fits into a comfortable and highly resistant silicone wristband.

Autonomous, waterproof and connected to mobile networks, DIAL was developed for outdoor sports lovers.

Stay in touch with your friends and family

The "DIAL" application allows you to add up to 3 emergency contacts. The emergency contact can receive, qualify and share key information with the rescue teams, such as the location of the DIAL user.

DIAL allows a faster and more efficient intervention of the rescue services.

2. Why DIAL?

- Between 2015 and 2018, the number of drownings in France has more than doubled according to a survey published by the French Public Health Organisation.
- In 2018, 409 people lost their lives while practicing sports, or more than 1 death per day!

Source: [French Public Health Organisation](#)

More details:

- **The survival expectancy of a person who falls into the sea is estimated to be a few hours.** The body temperature of a human being cannot be maintained in water with a temperature below 25°C. Hypothermia begins as soon as the body temperature falls below 35°.
- **People in danger at sea can, due to weather conditions or stress, have great difficulty in locating themselves correctly.** Especially since they do not always have a VHF radio and are often without means of locating themselves at sea. Drift due to currents and winds can be significant, which increases the search time. If the french sea rescue society set sail in less than twenty minutes, the time between the alert and the intervention in the area and the care of the shipwrecked can be counted in hours.

3. DIAL's goals:

- To have a **reliable individual means of alert and location** adapted to the **practice of outdoor sports**, at sea, on land or in the air (kitesurfing, kayaking, paddling, trail running, hiking, paragliding...).
[65% of French people](#) practice a sport at least once a week, the goal is to reinforce their safety.
- Reduce the time it takes for emergency services to intervene in the event of a problem

- Reduce the number of false alarms due to the worries of relatives



Photograph : Antonin Carlesso, ido-data



Photograph : Vincent Rustuel, SNSM



Photograph : Antonin Carlesso, ido-data

4. How does it work?

1.

The user wears DIAL during his/her sports activities (water or land-based). In case of an emergency, the user triggers an alert. He/she will do so by pressing 3 seconds on the beacon until feeling discontinuous vibrations.

2.

The emergency contacts receive the alert and live location of the DIAL user through an app notification, a text message and an email.

Before leaving, the DIAL user informs one to three reliable relatives or friends: they are the emergency contacts.

3.

If the user does not answer or confirms the emergency situation, the emergency contact calls the rescue services (N°112 in Europe). The emergency contact can communicate the live user's location to the rescuers.

4.

The rescuers have the DIAL user's location. They will be able to act faster and more efficiently.

5. Technical features

GPS beacon and wristband

Transmission of GPS location

DIAL works in 32 countries in Europe thanks to the multi-operator SIM card included in the beacon. More precisely, to function, the beacon must be in an area covered by the cellular network or the GSM network. DIAL transfers its encrypted data by mobile internet (GPRS). If this network is not available, DIAL transfers its data by text message via GSM networks.

- > The SIM card works with a **yearly subscription for unlimited use** (the first year is included with the purchase).
- > The user can choose to share their location with their emergency contacts (at all times, or only in case of an alert).
- > The beacon transmits GPS data feedback every 5 minutes (every 15 seconds in alert mode).

Sending geolocalised alerts

An alert with the location of the beacon is transmitted to the smartphones of the emergency contacts when:

- > The user presses the wristband for 3 seconds,
- > The user remains motionless on the ground (total absence of movement) for 3 minutes (if the user activates this feature through the app)

An autonomy adapted to your daily practice

- > Max 2 days with GPS data feedback every 5 minutes,
- > Max 6 hours (in alert mode) with GPS data feedback at least every 15 seconds.

Waterproof to 20 m for 4 hours

Certified IPX6 (Protected against strong jets of water from all directions) and IPX8 (Waterproof up to 20 m for 4 hours). However, DIAL is not suitable for scuba diving or other underwater activities. Underwater, communication with the land is not possible.

Vibrations to indicate the status of the beacon

A vibrating motor inserted in the beacon indicates whether the beacon is on, off or in alert mode.

The DIAL mobile application

Consult the user's location

The location is refreshed every 5 min. The path history of the last 10 locations is available. The consultation of the location of the DIAL beacon user requires that:

- > The beacon is in an area covered by a GSM / GPRS network and can receive GPS signals.
- > The user has given their consent for the emergency contacts to obtain the location of the beacon in the absence of an alert.
- > The emergency contact is in an area covered by his 3G/4G subscription with mobile data activated or WIFI and has his DIAL application installed and set up with the beacon(s) of the

user(s) for whom they are the emergency contact.

N.B.: The location can be obtained by the owner or the emergency contact by using the procedure indicated after clicking on "IMMEDIATE LOCATION BY TEXT MESSAGE". This functionality is offered in particular when the emergency contact's phone is not connected to the internet, which he/she is informed of on the DIAL application's home screen.

Selecting emergency contacts

Up to three emergency contacts can track a beacon simultaneously.

Mobilizing the rescue services

Emergency number available via the application: N°112, provided that the referent is in an area where his/her phone has access to a wifi or 3G/4G network

6. Packaging and pricing

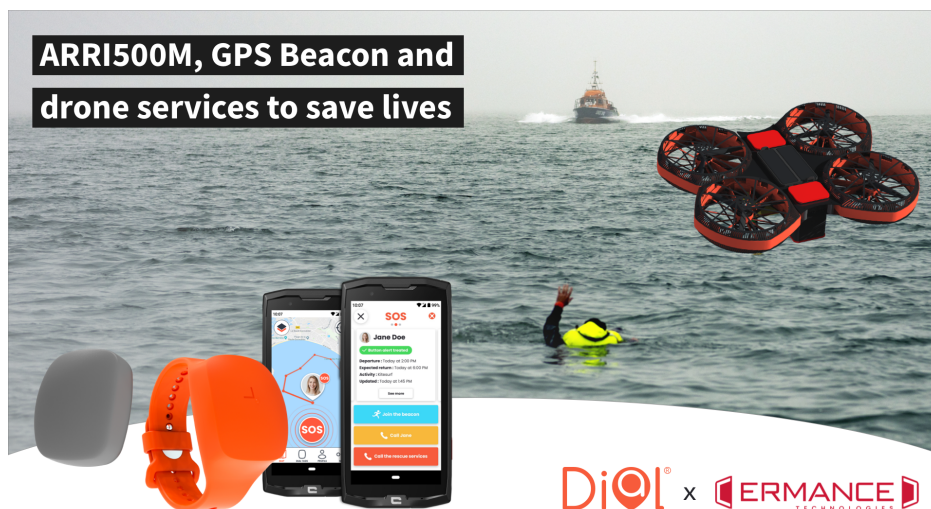
One pack includes a beacon, a wristband, an induction charger and cable, and 1 year subscription with unlimited use.

1 Pack = 149€ TTC

Yearly subscription = 29€ TTC

Available now on www.dial.help

7. Focus CES 2022: discover our new partnership! DIAL teams up with ARRI500M, the self-piloted rescue drone.



Photographie : Vincent Rustuel, SNSM

ARRI500M is a semi-automated drone for sea rescue. Through an intuitive mobile app

(control and localization), the drone equipped with jettisonable material (buoy, lights...) will be used in the first phase of a rescue operation: the golden minutes.

To carry out this first phase, ARRI500M and DIAL communicate, so that the drone receives the location of the beacon that issued an alert.

The goal is to take advantage of the extreme speed of the drone to remove a doubt, to reassure a person in difficulty and if necessary, to locate the person and provide him/her with equipment (buoy, lights, visual markers for helicopter rescue for example).

3 uses:

- To carry out the removal of doubt
- Search for victims
- Buoy dropping and first aid services

Usage scenario

1. In case of emergency, the wearer of the DIAL beacon triggers an alert.
2. The ARRI500M drone receives the alert and the wearer's location. It can then search for him/her, remove any doubt and provide first aid services.
3. The rescue services have the exact position of the wearer. The intervention is faster and more efficient.

The coastal market

- 884 coastal cities in France
- more than 500 deaths per year

The maritime market

- 12 deaths per year, including 6 drownings among fishers
- 1st cause of professional mortality

8. Contact

International point of contact

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Download media : <https://www.dial.help/documentation/>

9. About us

ido-data

ido-data is a French start-up based in Lyon, specialized in IoT, new technologies and digital transformation since 2016.

We are specialized in consulting, development, design, maintenance of IoT and digital solutions.

Here are a few examples:

- DIAL, GPS tracking and alert beacon
 - Hardware and software development: GPS alert and geolocation beacon and mobile application for tracking and receiving alerts
- Security system for staff
 - Installation of a private LoRa network to secure employees on the IRAM Observatory site during their extra-professional activities
- Serious Games Builder
 - Platform to transform a training course into a fun and immersive educational experience by creating Serious Games: present the training content in an attractive way through gamification
- Suricate, the motion sensor
 - Suricate, a motion sensor (sigfox) placed in a medicine cabinet to ensure an optimal supply of first aid products

Ermance Technologies

Based at the Izarbel technology park in Bidart since December 2019, Ermance Technologies manufactures semi-automated drones for sea rescue. It was founded by Gilles Delavault.