



OBSCAPE

ENVIRONMENTAL
OBSERVATIONS

Coastal & Offshore

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Obscape B.V. | Reg.: 74971409 | VAT: NL860092550B01
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Coastal & Offshore Sectors

Forecasting rapidly varying offshore hydrodynamic and atmospheric conditions has become vital to increase safety and productivity at ports, nautical operations and offshore construction, whilst also providing more accurate reporting for coastal and offshore ecosystems. Wind, waves and climate constantly shape our coastline & affect open sea conditions. Real-time monitoring of oceans systems and shorelines is essential to stay in control.

Obscape provides an affordable, easy to use and convenient means to collect and access real-time water and environment data, whether you are monitoring coastal erosion, workability of vessel-based operations, offshore power generation or marine habitats. Our easy-to-deploy, rugged observation equipment is geared towards keeping remote site visits and operational costs to a minimum.

Our innovative equipment paired with the powerful, intuitive Obscape Data Portal creates the perfect tool to obtain observations of baseline behaviour and short-term or long-term changes of the environment, providing a solid base for sustainable management of coastal systems and offshore operations.

Real-time observations via the secure, free-to-use Data Portal will alert you in case of extreme events, such as critical wave height exceedance, which can be reacted to immediately. Accurate and structured data is available where you need it, and when you need it. Reports and notifications can be automated, which allows informed decisions to be made in real time.

Integral observation of any coastal & offshore system can be easily achieved by deploying the Obscape Wave Droid, Weather Station, Level Gauge, Time-Lapse Camera and Rain Gauge, combined with real-time reporting through to the Obscape Data Portal.



[Click on the Icon to learn more about our Core Products](#)

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Wave measurements are an indispensable part of any MetOcean or Limnology project. The Obscape WaveBuoy is based on recent advances in solar power, sensor and data technology, ensuring a rugged, light-weight, reliable and affordable wave buoy.

The Wave Buoy uses a combination of motion sensors and an electronic compass to measure the directional wave field with high accuracy. This yields the directional wave spectrum and all parameters that can be derived from it, such as the 1-dimensional energy-density spectrum and a range of bulk wave parameters (significant wave height, peak wave period, peak wave direction, etc.).



Purchase includes Free use of the Data Portal, for the lifetime of your WaveBuoy and 5,000 free satellite communication credits to get you started!

Designed to make your life easy: no receiver station needed. Solar powering Li-On batteries, a simple mooring solution, deployable by hand and transportable as check-in luggage.

KEY FEATURES

- Real-time data (4G & Satellite)
- Solar-powered
- Bulk wave parameters
- Directional wave spectrum
- GPS position & watch circle
- Low purchase & operational costs
- Compact & light weight
- Easy to deploy & service
- Suitable as check-in luggage
- Long battery life with standard alkaline batteries

MAIN APPLICATION AREAS

- Marine & Coastal engineering
- Floating Solar Farms
- Oceanographic research
- Environmental monitoring
- Work compliance monitoring
- Limnology research

ACCURATE, FULLY DIRECTIONAL WAVE DATA

WaveBuoy uses a combination of motion sensors and an electronic compass to measure the directional wave field with high accuracy. This yields the directional wave spectrum and all parameters that can be derived from it, such as the 1-dimensional energy-density spectrum and a range of bulk wave parameters (significant wave height, peak wave period, peak wave direction, etc.).

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WATER LEVEL GAUGE

Water level monitoring plays an important role in monitoring natural or man-made water features. Obscape's Level Gauge delivers real-time water level measurements. It records the water level using a highly accurate radar sensor. Since the instrument is mounted above the water surface, deploying it in the field is easy.

WATER LEVEL GAUGE - FEATURES & BENEFITS



- **Accurate water level data**
- **Radar technology**
- **No underwater components**
- **Completely wireless**
- **Real-time data**
- **Radar Based Sensor 60 GHz**
- **Range 20 meters**
- **High Accuracy 2mm**
- **Solar powered**
- **GSM telemetry (3G)**
- **Multiple mounting options**
- **Versatile data portal included**

WATER LEVEL GAUGE - APPLICATIONS & USES

The Obscape Level Gauge measures the distance to the water surface using a highly accurate, industry standard radar sensor to monitor tide surges, storm water levels & vessel water ingress. Mount it above water surface in ports, offshore structures & coastal points. The Obscape Level Gauge avoids costly and labour-intensive underwater operations. The incredible 20 metre range of the Level Gauge covers even the most extreme water level variations. The Obscape Level Gauge is suitable for deployment to monitor & observe offshore power generation, coastline and marine based construction, ports and estuarine ecosystems.

[Click Here for more information!](#)



RAIN GAUGE

Obscape's Rain Gauge delivers real-time rainfall measurements. Its industry-standard rain collector is connected to Obscape's Power and Telemetry Module to create a completely wireless real-time rain gauge. A network of Rain Gauges will yield valuable insights into the dynamics of your water system.

RAIN GAUGE – FEATURES & BENEFITS



- **Accurate rainfall intensity measurements**
- **Industry-standard rain collector**
- **0.2 mm resolution**
- **Robust design**
- **Completely wireless**
- **Real-time data**
- **Solar powered**
- **GSM telemetry (3G)**
- **Multiple mounting options**
- **Versatile data portal included**

RAIN GAUGE – APPLICATIONS & USES

Rainfall intensity can vary strongly over time and at different locations along the coastline and offshore. Tropical cyclones, cold fronts & offshore depressions can be forecast by observing the correlation of rain intensity and a weather event offshore. To stay informed of potential disastrous events, a network of rain gauges is an ideal accessory device for any Coastal & Offshore monitoring program. Obscape's Rain Gauge is also the perfect instrument to provide you with the latest rainfall data at any location along the shoreline area. The Obscape Rain Gauge is robust, wireless & unobtrusive; making it easy to deploy on beaches, coastal construction sites and offshore power generation sites.

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TIMELAPSE - CAMERA

Obscape's Time-Lapse Camera is a robust, fully wireless solution that delivers time-lapse images to your desktop in real-time. It allows you to have a look at your area of interest at any time of the day, wherever you are. Power is supplied through built-in solar panels, while images are transmitted in real-time using a 3G GSM connection. Its wireless nature & optional camouflage pack makes the Obscape Time-Lapse Camera sustainable & very suitable for discrete monitoring of remote areas.

TIME LAPSE CAMERA - KEY FEATURES & BENEFITS



- **Up to 5MP resolution**
- **Real-time data**
- **Completely wireless**
- **Solar powered**
- **GSM telemetry (3G)**
- **Multiple mounting options**

TIME LAPSE CAMERA - APPLICATIONS & USES

Due to its wireless nature and compact housing, our Time-Lapse Camera is easy to deploy in any environment. Mount it in ports, offshore structures & coastal points. Obscape Time-Lapse cameras are ideal for dense coverage of spatial and temporal dynamics, allowing you to keep a close watch on everything that happens in your Coastal & Offshore areas of interest including offshore operations, coastline evolution, coastal and marine based construction, ports and nautical infrastructure and estuarine and beach activity.

[Click Here for more information!](#)



WEATHER STATION

Obscape's Weather Station supplies you with real-time weather data. This robust and user-friendly device combines Obscape's Power and Telemetry Module with an industry-standard weather sensor. Built-in solar panels and the GSM connection guarantee easy hassle-free installation & monitoring in any environment. The Obscape Weather Station can measure weather events in your location, compare with historical records, or set alarms. Take your environmental monitoring to the next level with the Obscape Weather Station.

WEATHER STATION - KEY FEATURES & BENEFITS



- **Comprehensive weather data**
- **GSM telemetry (3G)**
- **Multiple mounting options**
- **Versatile data portal included**
- **Completely wireless**
- **Real-time data**
- **Solar powered**
- Wind speed, direction and gusts
- Rainfall
- Air temperature
- Atmospheric pressure
- Vapor pressure
- Relative humidity
- Lightning strikes & distance

WEATHER STATION - APPLICATIONS & USES

The Obscape Weather Station should be a standard asset of your environmental monitoring setup. It provides a wide range of weather parameters to monitor on beaches, coastal construction sites and offshore structures & power generation sites.

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DATA PORTAL

The Obscape Data Portal is one of our core products because of the great value it brings to easily view and analyse observations in real-time. The secure and powerful Obscape Data Portal is web-based and developed by Obscape to support integral monitoring and management of entire water systems.

The Obscape Data Portal provides a full turnkey solution that aims to report information about both the environment being observed and the instruments deployed in your catchment area. It supports configuration of your Obscape devices both on site and remotely. The observations can be accessed from anywhere through your desktop, laptop or mobile device. *An unrestricted license for the data portal is included free of charge with the purchase of any Obscape product.*

The Obscape Data Portal is your ultimate tool to unify the office and the field. Apart from offering data management functionality, the portal will also help you to monitor and maintain your devices operationally.

DATA PORTAL - KEY FEATURES & BENEFITS



- **Real-time data**
- **Report generation**
- **Integral data management**
- **White labelling**
- **Data forwarding**
- **Maintenance log**
- **Monitoring alerts**

DATA PORTAL - INTEGRAL DATA MANAGEMENT

The Obscape Data Portal does more than just visualising your real-time observation data. It includes tools for data management and analysis, such as a variety of data downloads, flagging invalid data points, comparing data across all your measurement stations, and viewing historic statistics of your dataset. Furthermore, you can register for periodic data reports in PDF format that are delivered to you by email.

While we strive to make the Obscape Data Portal into your ultimate data management tool, you might wish to include your real-time observations into your company's own data management systems. Therefore, the data portal offers two means of data forwarding:

- An API that returns data in the widely supported JSON format
- An HTTP posting service that posts data to a user-defined URL.

By specifying your custom reference ID for all your measurement stations, compatibility with your internal data management system is guaranteed.

DATA PORTAL - OPERATIONAL MAINTENANCE

Carrying out operational monitoring entails more than just sitting back and watching the data roll in. Field operations are an indispensable part of your job, as instruments need to be deployed, recovered and at times maintained. Your Obscape equipment has been designed to be resistant, robust and low-maintenance. Additionally, the Obscape Data Portal offers several tools to monitor the status of your devices, issue automated email alerts, retrieve your GPS-tracked devices and document your field operations.

DATA PORTAL WHITE LABELING

Obscape has the capability to rebrand the data portal with your own corporate identity. We provide the possibility to upload a custom logo, specify a custom colour scheme and create a custom URL for direct access to the data portal. Reports will bear the company name and logo of choice. The Data Portal supports full bespoke turnkey solutions to your monitoring needs.

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