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# PROTECTING OUR ENVIRONMENT

**LAB ON  
THE  
MOVE**

**ALGAE-600P**

**Portable Chlorophyll Analyser**

**Easy to detect and monitor  
environmental contaminants**

**Hexsor Scientific** is one of the world leaders in the design, development and implementation of sensors & systems to assess contaminants in water, soil and air. Our current analysers are the only flexible portable instruments based on SPECTROSCOPY and MASS SPECTROMETRY techniques for on-site monitoring of environmental contaminants. The primary objective of our company is built around delivering complete turnkey solutions for your specific business requirements.



# Successful Field Trial of ALGAE-600P



São Vicente Island,  
Republic of Cape Verde



Hexsor Scientific is pleased to announce that a field trial of the ALGAE-600P 'LAB ON THE MOVE' analyser for monitoring Harmful Algae Blooms (HABs) in marine waters has now been successfully completed.

The ALGAE-600P field trial took place at the São Vicente Island, Cape Verde in partnership with Q-Technologies, UK and the University of Cape Verde, São Vicente, Republic of Cape Verde. Marine water samples were taken at six different locations (Calhau, Baía das Gatas, Salamansa, Mindelo Marina, Gale and São Pedro) around the island. For the initial testing, these water samples were brought back to the lab to measure the amount of micro-algae present in them.

These are blue-green algae that produce toxins, which are harmful to humans and animals that drink or come in contact with. Harmful algae Blooms (HABs) are a global problem that significantly alters the ecosystem. There is an urgent need to develop and validate rapid, reliable, cost effective and robust diagnostic tools for identification and detection of HABs in marine, lakes and reservoirs.

Now, Hexsor Scientific has developed a reliable, truly portable and field measurement instrument for the direct measurements of algae in waters. An innovative arrangement in ALGAE-600P, capable of providing accurate and precise measurements, and offers the flexibility to detect wide range of algae types. This analyser provides accurate and timely information on the occurrence of different species without a need of re-calibration.

HexaSoft, a powerful and interactive software with built-in intelligence and decision-making capabilities is integrated into the instrument. All data processing is performed in the analyser using touch screen panel. This instrument is designed for both field and laboratory bench top analysis.

This ALGAE-600P instrument used in this trial is absolutely important to the environmental agencies to accurately monitor the behaviour of harmful algae species. ALGAE-600P is now ideally positioned to service the environmental watch.

**For more information, please contact: [info@hexsorscientific.uk](mailto:info@hexsorscientific.uk)**





ALGAE-600P offers the on-site monitoring of source waters for Cyanobacterial Harmful Algae Blooms in a wide variety of conditions, from trace to high concentration by measuring the intensity of the fluorescence characteristics of phytoplankton chlorophyll.

Fully automated wavelength and light source calibration optimizes the measurement accuracy.

The powerful interactive support tools in the application software are designed for the following:

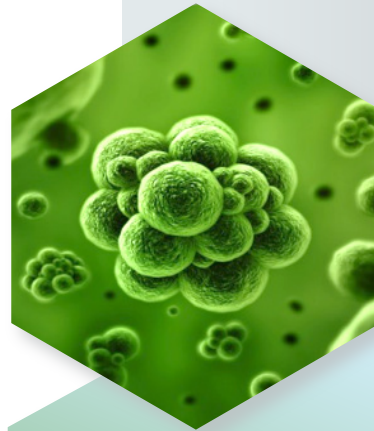
- Algae types recognition;
- Easy build-up of calibration files;
- Quick analysis of the samples to be measured;
- Providing design data analysis reports;
- End-to-end automated data processing;
- Quick generation of a comprehensible report and share the results simultaneously through Wi-Fi.

#### Features and benefits:

- 01** Compact, lightweight and robust, the truly portable ALGAE-600P makes it easy to use for on-site analysis, which allows real-time decision making quick.
- 02** Typical test time <2 seconds per sample. All data processing is performed in the analyser touch screen panel. No post-processing necessary using an external computer.
- 03** Touch screen display allows easy sample analysis and display of data without a PC. Powerful HexaSoft interactive software is user friendly and provides simple, quick and easy calibration.
- 04** Intelligent auto-calibration routine that offers fast and reliable light source calibration with minimal user input. Doesn't need factory re-calibration. Instrument is provided with reference check samples.
- 05** Long lifetime and highly stable light source. Based on the fluorescence principle.

## ALGAE-600P

Lab on  
the  
Move



## Portable Chlorophyll Analyser



## Applications

Water quality,  
Pollution monitoring,  
Biomass and  
Nutrient measurements.

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