

ONE PAGER

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SPECTROCAPTURE

Summary

Mini lab in a suitcase!

In situ examination and result. Contaminated water, whether it is tap water or water stored in containers, can be life-threatening for people. This is especially true in a hospital or other healthcare facility. SpectroCapture measures the concentration of protein, humic substances, cyanobacteria and green algae in the given water immediately, on the spot.

The wavelength of the exciters used in the device: 280 nm, 450 nm, 620 nm, the spectral sensitivity of the device: 340-840 nm.

The problem

In all buildings, and especially in hospitals and medical facilities, water containing invisible impurities can cause serious problems. Pathogens can multiply in taps that have not been used for a long time and in closed containers. Examining these in the traditional way takes a long time, and by the time the results of the test are available, the water quality may already change in the tested location.

The solution

The fluorescence-based SpectroCapture water quality control system provides results at the point of water sampling and immediately. The spectrometer is located in the lid of the water sample container, which is connected to the laptop via a USB cable and measures the concentration of proteins, algae, cyanobacteria and humic components dissolved in the water.



The Project

We want to develop an improved version of SpectroCapture that will be able to measure dissolved oxygen and other components as well.

The development takes 6 months.

The funding requirement for the development is EUR 100,000.