

ONE PAGER

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MEDIRLAB Infradiagnostic System - MIDS

Summary

MIDS monitors the infrared temperature radiation of the body surface in high resolution. The temperature resolution of the sensor is below 0.01°C. All system parameters are optimized for the temperature range of the human body.

In 2011, it was chosen as one of the 21 most innovative Hungarian hightech solutions at the Hungarian Innovation TechShow. In recent years, thousands of athletes and patients have been examined by MIDS.

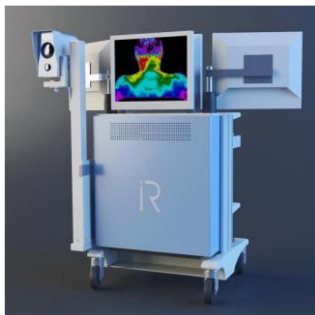
The problem

A significant number of skin surface changes are associated with changes in temperature. They are difficult to detect because they are usually invisible.

Changes under the skin surface are almost always accompanied by temperature changes. They can be detected with invasive imaging diagnostics.

The solution

MIDS creates a high-precision heat map of the human body. The difference in the temperature measurement of the individual areas alone is of diagnostic value. In any case, it is sufficient to determine which areas require more in-depth investigations. But in sports medicine, for example, the sports doctor can already determine exactly which muscle tissues are damaged based on the heat map. It is particularly suitable for rapid monitoring of rehabilitation.



The Project

We want to develop a new, more modern version of MIDS. We want to produce a smaller, lighter, higher resolution (from 384x288 pixels to 1280x1024 pixels) system than the current system.

The development takes 24 months.

The funding requirement for the development is EUR 500,000.