

The St. Petersburg State Electrotechnical University (LETI) reported that university experts created a portable thermal imager for medical diagnostics. The device is designed to control blood flow during tumor removal operations.

The development is characterized by compact dimensions and consists entirely of Russian components. Unlike analogues, the device does not require special skills for use - it is enough to bring it to the desired area of the body to get data on the screen.

The thermal imager combines two sensors: matrix and point. This design allows you to accurately measure the temperature in small areas of the body. Special software selects zones with an abnormal temperature, displays real-time changes and maintains data for subsequent analysis.

Now the device is being tested at the Research Institute of Neurosurgery. Polenova. Surgeons use it to evaluate blood microcirculation in tissues around the tumor. One sensor monitors changes in the affected area, the other in healthy indicators for comparison.