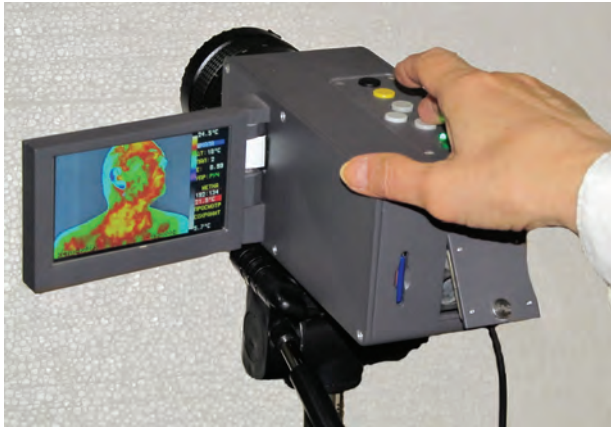
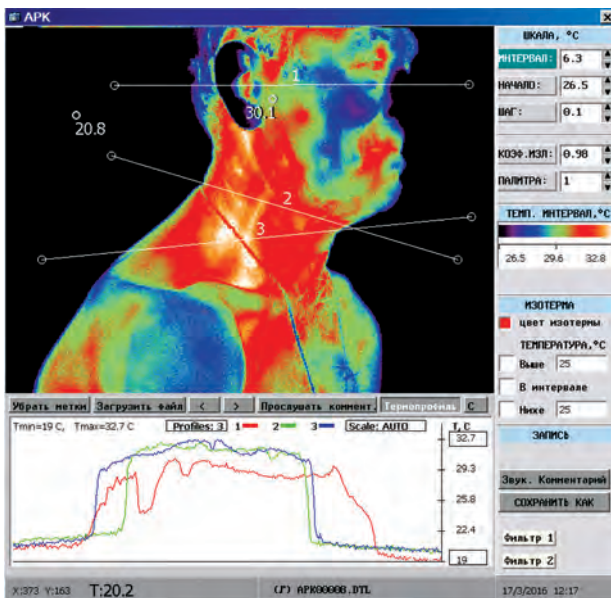


THERMAL FIELD ANALYZER (INFRARED IMAGER)



The analyzer external view



User interface

Stage of Development.
Suggestions for Commercialization

IRL7, TRL6

Manufacture, supply, warranty service,
and staff training upon request

Areas of Application

The analyzer is designed to receive, to record, and to quantitatively analyze the infrared images of various objects in power engineering, construction, industry, medicine, defense industry, science, agriculture, ecology, etc.

Specification

Detector	Microbolometer FPA
Number of elements*	384 × 288
Spectral range, μm	8–14
Operating temperature, K	300
Spatial resolution*, mrad.	1.0
Temperature sensitivity* at 30 °C, °C	0.07
Frame rate*, Hz	25
Field of view*, deg	18 H × 22 V
Measured temperature range*, °C	-20...+300

* The parameters can vary depending on the task

Advantages

There are no Ukrainian analogs. The analyzer advantages over the foreign analogues (commercial imagers with similar technical specifications) are its low cost and original modular design, and software that enables adjusting the device parameters and functions depending on specific purpose of thermal analysis and creating a common interface with other equipment, etc.

IPR Protection

IPR1, IPR2

Contact Information

Yulia V. Fomenko, B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine; +38 050 948 74 54, e-mail: yufomenko@ilt.kharkov.ua