

PRESS RELEASE

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Online camera combines thermal image with visual image for the first time

The new optris PI200 supplements the stationary infrared camera series with the innovative BI-SPECTRAL technology

Berlin, 05 July 2011. The Optris GmbH continues the market introduction of a new, extensive infrared camera series with the introduction of the [optris PI200 thermal imaging camera](#) with BI-SPECTRAL technology.

“The new BI-SPECTRAL technology integrates two established camera technologies in one stationary device. Through a visual camera, the optris PI200 is able to combine the conventional thermal image with a visual one. Thereby, both images are displayed in real time and are being recorded for eventual analysis.” informs managing director Dr.-Ing. Ulrich Kienitz.

The integrated combination of a visual image (VIS) and a thermal image (IR) via one single stationary camera is a significant step in the development of imaging temperature measurement systems. The optris PI200 will be applicable in areas where so far CCD cameras and thermal imaging cameras were used separately. Examples are the installation in storage pits and open spaces for early fire detection, at conveyor belts for temperature control of bulk material or within production processes for visual and thermal documentation.

The optris PI200 thermal imaging camera displays infrared images with up to 96 Hz (images per second) with 160x120 pixels. The time synchronic real time image recording takes place with up to 32 Hz with 640 x 480 pixels. The free available full version of the optris PI Connect software offers two modes for the image display: the monitoring modus and the cross-fading modus. The monitoring modus offers an easy orientation at the point of measurement with the separate display of both images. The cross-fading modus highlights critical temperatures through the overlaid display of the images.

With a size of only 45 x 45 x 62 mm³, the optris PI200 follows the design of the established optris PI160. The advanced interface concepts such as USB cable extension up to 10 km (over fibre), process interface (PIF) at the camera as analog or digital interface as well as software interfaces like DLL, ComPort and LabVIEW allow system integrators an easy integration into networks and automated systems.

Optris GmbH

Technology company Optris GmbH is specialized in the development, production and sales of non-contact temperature measurement via infrared. The product range covers portable infrared thermometers, stationary infrared industry thermometer as well as infrared cameras and calibration sources. All pyrometer set new benchmarks for the application at OEM solutions and multiple applications.

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