

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 13/06/2017

The First of its Kind

The latest handheld thermographic camera from InfraTec extends the segment of the entry level cameras by a unique detector format

Thermographic cameras for mobile applications have hugely developed technically in recent years. At the same time, the demand for these cameras has risen noticeably. InfraTec, one of the leading suppliers in this sector, now presents with the compactIR 400 an affordable and yet powerful inspection camera that stands out significantly from its competitors.

Right from the very first image it becomes apparent where the strength of this uncooled microbolometer camera for building thermography and predictive maintenance lies. Its detector with the (400 × 300) IR pixels format is paving the way for thermal images, whose sharpness and richness of detail have been unrivalled in this device class so far. A total of 120,000 IR pixels allow temperature distributions on the surface of measurement and test objects to be accurately recorded and displayed. This number of pixels exceeds the value, which cameras with the standard format of (320 × 240) IR pixels reach, by more than 50 percent.

Technical peak values as a basis of real benefits

This means a benefit for compactIR 400 users in numerous situations. Larger areas can be captured per image, which saves valuable time, such as during the inspection of large-scale industrial plants. Consequently, the work involved when making the measurements decreases due to the larger detector format. Under other conditions the measurement results become significantly more accurate. If the image detail to be examined is identical, the temperature recording of the compactIR 400 is based on considerably more measuring points compared with a camera with a smaller detector format. Thus, the images are more detailed.

Apart from the geometrical resolution, the thermal resolution is also at the highest level for a camera of this performance class. Hence, temperature differences of up to 45 mK can be detected reliably. This guarantees the necessary certainty and precision for a wide variety of measurements. The temperature measuring range already reaches 800 °C by default and can optionally be extended up to 2,000 °C. Thus, for users of these devices numerous potential applications are coming to the fore.

Ready for every situation thanks to extensive features

The camera is just as versatile when considering the available lenses. In addition to the standard lens, other options are available to users with a telephoto and wide-angle lens. Regardless of whether or not details of the measuring object are far away or extremely close, the appropriate interchangeable lenses ensure first class image quality at all times. The motorized focus with automatic function also supports the focusing accuracy. Thus, users keep the targeted subject constantly in view and benefit from high-resolution images in the end.

This applies above all to situations that pose particular challenges, such as overhead thermal images or objects that are difficult to access. In such moments the compactIR 400 demonstrates its versatility. To simplify work considerably if inconvenient angles make the perfect shot of a motive almost hopeless, the lens units can be tilted up to 70°. Whether the image was successful, this is indicated by the 5" TFT colour display with (1,280 × 720) pixels. The value in this device class is also unrivalled and allows an accurate evaluation of the thermal images immediately after recording on site.

The display also serves as a touchscreen and can be rotated up to 270° and swivelled 180°. Rubberised grip plates, large buttons as well as the weight of just 1,150 g including standard lens are further refinements that guarantee

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extremely comfortable handling of the camera. It is easy to operate at any time – optionally with one hand or both hands.

Clearly evaluating data for a wide variety of measuring tasks

The analysis and evaluation of measurement results can be carried out just as conveniently. Users, for example, can generate reports in PDF format already on the camera, transfer them to a printer via a Wi-Fi interface and print them immediately. The thermographic IRBIS® 3 software family developed by InfraTec is suitable for more detailed inspections. With software packages such as IRBIS® 3 report it offers solutions that have been designed specifically for architects, consultants and engineers and have been appreciated by such users for many years.

In light of these features, the compactIR 400 is opening up an extremely wide range of applications. This includes the entire range of inspections that are necessary for the maintenance of mechanical and electrical installations. The same applies to building thermography and building diagnostics. With the aid of this camera, for example, users can assess the quality of construction projects in the course of renovation, prepare forecasts for the hazards posed by mildew or receive support when calculating the costs for energy consumption.

Information: 5,023 characters (incl. spaces)

About InfraTec

The InfraTec infrared sensor and measuring technology company was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 200 employees and has its own design, manufacturing and distribution capabilities.

With its Infrared Measurement business unit, InfraTec is one of the leading suppliers of commercial thermal imaging technology. In addition to the high-end camera series ImageIR® and the VarioCAM® High Definition series, InfraTec offers turnkey thermographic automation solutions.

Spectrally single and multi channel infrared detectors, next to infrared sensors with electrically tunable filters based on MOEMS, count among the products of the infrared sensor division. These detectors can be used in gas analysis, fire and flame sensor technology and spectroscopy.

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Figure



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