

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

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Tailor the Detector Specifically to Your Measurement Task InfraTec website simplifies the selection of filters and windows

The IR window of a pyroelectric detector protects internal components, such as the IR-sensitive chip and the electronics, from environmental influences. For infrared radiation, IR windows offer a wide transmission range, for example, above a cutoff wavelength (long-wave pass, LWP) or between a lower and upper cutoff wavelength (wide-bandpass, WBP). If the transmission range is restricted by additional measures to the very narrow absorption band of a measurement gas, these are referred to as IR filters or narrow-bandpass filters (NBP). Restricting the wavelength range using IR filters and windows makes it possible to obtain a distortion-free measurement signal, selectively suppress cross-sensitivities to other gases in the environment, and improve the signal-to-noise ratio.

InfraTec offers a wide range of IR windows and filters for its pyroelectric detectors, allowing users to tailor the detectors' spectral characteristics to their specific needs. The company's website now features a tabular list of all narrow-bandpass filters offered in its standard portfolio, including specifications for center wavelength (CWL), half-power bandwidth (HPBW), application range, and filter design. In addition, the website lists the detectors with which the IR filters can be used and provides the corresponding data sheets.

For the IR windows, which are also listed in a table, the website provides information on their materials and properties, as well as their transmission ranges. The IR windows are also paired with the corresponding detectors, complete with data sheets. A product filter, which can be configured using sliders or by entering data, helps users quickly find the ideal window-detector combination for the desired transmission range.

<https://www.infratec.eu/sensor-division/ir-filters/>

Information: 1,924 characters (incl. spaces)

About InfraTec

The InfraTec infrared sensor and measurement technology company was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 240 employees and has its own design, manufacturing and distribution capabilities.

The Infrared Sensor division produces custom-made components – especially pyroelectrical infrared detectors – for clients worldwide. The product range includes analogue single and multi-channel detectors as well as digital multi-channel detectors (PyriQ®) and high-performance detectors (PYRONEER®) for analytical instruments. The detectors are used in gas analysis, fire and flame sensors and spectroscopy.

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 camera series TarisIR® and VarioCAM® High Definition, InfraTec offers turnkey thermographic automation solutions e. g. for industry processes, non-destructive testing and fire detection and prevention.

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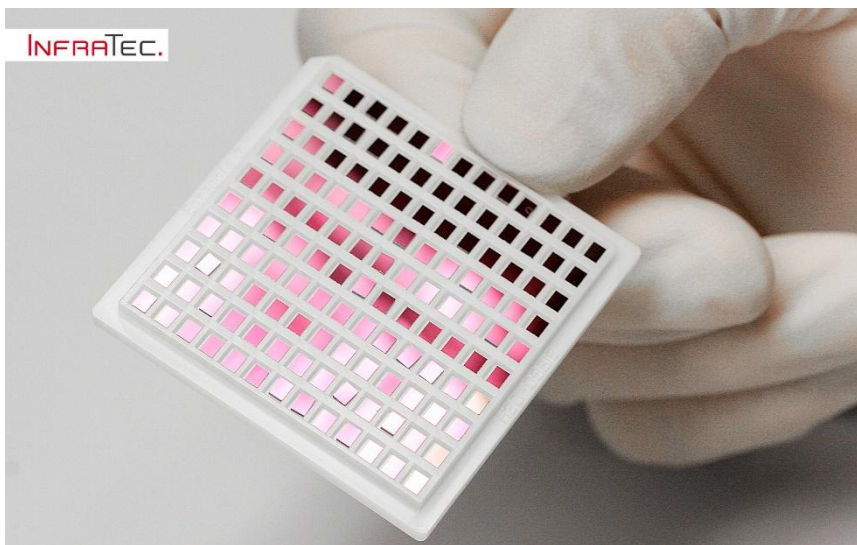
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Picture



Filter Selection for Detectors, Picture credit: © InfraTec