

新闻稿

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 04/06/2019

In the Service of Meteorology

气象服务领域的应用

International Measuring Institutes use Pyroelectric Detectors from InfraTec

国际测量研究所采用 InfraTec 热释电探测器

A measuring instrument that can determine sound scientific data must be calibrated beforehand. Only then can it output reliable information that is deemed comparable and repeatable. As leading bodies, institutions such as the Physikalisch-Technische Bundesanstalt (PTB) or the National Institute of Standards (NIST) constitute the basis worldwide for the correct calibration of measuring instruments. InfraTec supports the work of PTB and NIST and provide them with detectors such as the LIE-651.

一个可靠的科学测量仪器必须事先经过精准的校准。只有这样，它才能够输出具有可比性，可重复性的可靠信息。作为一个具有领导力的机构，如，物理技术联邦局（Physikalisch-Technische Bundesanstalt (PTB)）或者国家标准研究所(NIST)等机构构成了全球测量仪器校准的标准。InfraTec 公司是 PTB 和 NIST 供应商之一，为他们提供 LIE-651 等探测器。

A particularly sensitive element with a diameter of 5 mm distinguishes this single channel detector. A highly absorbent spectrally flat black layer is attached to the element. The pyroelectric detector can be spectrally calibrated up to a wavelength of 25 μm depending on the integrated window. Thanks to the low level of radiation in the mid/far infrared range, special attention was given to a high signal-to-noise ratio. To ensure that the calibration using a measured surface of merely 2 mm diameter succeeds, the entire radiation sensitive surface is characterised by a high level of homogeneous sensitivity. Thanks to such characteristics, the LIE-651 is ideally suited for use in solving measuring tasks, which are connected with the representation, preservation and transmission of radiation-related and thermodynamic units.

这一单通道探测器的特点是一个直径 5 mm 圆形的灵敏元芯片。光谱响应平稳并且吸收系数高的黑色涂层附着在灵敏元上面。该热释电探测器根据集成窗片的特性在光谱上能够校准至 25 μm 。得益于在中/远红外波段的低辐射功率，我们可以更多地关注于高的信噪比。为此，采用了只有 2mm 直径的测试表面的校准获得成功，整个辐射灵敏表面获得非常高且均匀的灵敏度。由于这些特性，LIE-651 是解决测量任务的非常理想的元器件，例如辐射相关或者热力学相关参数的表述，保存和传达方面的工作。

InfraTec has developed and produced special models such as the LIE-651 for more than 25 years. These complement the range of over 50 standard detectors for gas analysis, flame detection and spectroscopy.

InfraTec 公司已经开发和生产诸如 LIE-651 这类特殊型号探测器超过 25 年的经验。这些用于气体分析，火焰检测和光谱分析的标准探测器种类有 50 多种。

Information: 1,635 characters (incl. spaces)

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关于 InfraTec

InfraTec 红外传感和测量公司建于 1991 年，在德国的德累斯顿。拥有超过 200 名员工和设计、生产、销售中心。

InfraTec 传感，最新开发出基于 MOEMS 可调波长产品，以及多通道红外探测器，可以用于气体分析，火焰检测和光谱仪。

InfraTec 测量，是领先的消费领域热成像科技。除了高端系列 ImageIR®和高精度系列 VarioCAM®，InfraTec 也提供热成像自动系统。

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