

PHOTONICS spectra

WHITE PAPERS & APPLICATION NOTES



High-power and Most Efficient IR Emitters for Measurement and Sensing Applications

INFRA.SOLID[®]

White Paper
OPTICAL MEASUREMENT TECHNOLOGY

High-power and most efficient IR emitters for measurement and sensing applications

Abstract: This paper describes the importance of the infrared source to infrared spectroscopic measurement technologies, in particular FT-IR spectroscopy and NDIR gas analysis, for a variety of applications, e.g. TOC analysis, gas leak detection in medical, handheld and consumer designs and the IOT. Newest technologies offer great benefits, like more accurate results in shorter measurement cycles as well as an area-wide and mobile use due to powerful battery-powered measurement devices. With high-end packaging technologies it is now possible to apply new ideas like the use of gas filter cells which can filter the absorption bands of disturbing gases in gas mixtures and, consequently, improve measurement accuracy.

This paper describes the importance of the infrared source to infrared spectroscopic measurement technologies, in particular FT-IR spectroscopy and NDIR gas analysis, for a variety of applications, including TOC analysis, gas leak detection in medical, handheld and consumer designs, and the IOT. Newest technologies offer great benefits, like more accurate results in shorter measurement cycles as well as an area-wide and mobile use due to powerful battery-powered measurement devices. With high-end packaging technologies it is now possible to apply new ideas like the use of gas filter cells which can filter the absorption bands of disturbing gases in gas mixtures and, consequently, improve measurement accuracy.

[DOWNLOAD WHITE PAPER](#)

INFRA.SOLID[®]

Visit [Photonics Media](#) to download other white papers and learn more about the latest developments in lasers, imaging, optics, biophotonics, machine vision, spectroscopy, microscopy, photovoltaics and more.

www.photonics.com/WhitePapers.aspx

We respect your time and privacy. You are receiving this email because you are a Photonics Spectra magazine subscriber. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.



LAURIN PUBLISHING

PHOTONICS MEDIA