

The World's First Industrial Grade Infrared Pyrometer with Thermal Imaging Capabilities

LumaSense Introduces the World's First Industrial Grade Infrared Pyrometer with Thermal Imaging Capabilities.

SANTA CLARA, CA, USA, October 20, 2014 /EINPresswire.com/ -- [LumaSense Technologies, Inc.](#)[®] added the integrated [ISR 6-TI Advanced](#) to their [IMPAC pyrometer](#) and imaging portfolio for increased control and optimization of manufacturing processes in metals, glass, and other materials industries. The IR pyrometer ISR 6-TI Advanced is a true break-through by combining pyrometry with infrared imaging technology to produce "Relative" thermal images. "Relative" thermal images are produced by measuring the temperature of the center spot with a ratio pyrometer and using an infrared filter to show an auto-calibrated thermal image based on the highly accurate ratio pyrometer temperature reading.

This infrared temperature measurement system is based on the proven ISR 6 Advanced pyrometer and a video camera that utilizes a short wavelength infrared filter. The resulting ISR 6-TI Advanced system operates in a short wavelength (around 1 μm) for accurate and reliable temperature measurements between 700 °C and 1800 °C. The analog video output signal is converted to USB and fed to a PC using LumaSense's InfraWin software. The InfraWin software generates and shows a "Relative" thermal image from this signal. LumaSense's InfraWin software also provides temperature, data logging, and analysis features. The ISR 6-TI Advanced paints a more-accurate picture for identifying potential issues before they lead to problems that impact process performance, a key benefit for materials manufacturers running heat-dependent processes.

"The ISR 6-TI Advanced solution is more than just an infrared thermometer. It is ideal for industries where it's critical to know the temperature of an object as well as ensure uniformity across an object at that temperature," said Daniel Schueftan, Product Manager for Pyrometry at LumaSense Technologies. "It is accurate and easy to use by offering a single user interface for the infrared pyrometer and thermal imaging function. The key advantage of this non-contact temperature measurement is that there is no mechanical alignment required between the thermal image and the ir pyrometer, creating a seamlessly integrated system. As such, many processes in metals and glass making industries that use a single pyrometer to measure temperature can be improved with this innovative technology."

The ISR 6-TI Advanced makes its debut this week at the Heat Treatment Congress, a major

exhibition for heat-intensive manufacturers on October 22 – 24 in Cologne, Germany. The ISR 6-TI Advanced can also be viewed at MEORGA, an exhibition for process control systems, measurement and control technology on November 5, in Bochum, Germany.

About LumaSense Technologies, Inc[®]:

LumaSense Technologies, Inc.[®] is one of the world's most trusted providers of innovative temperature and gas sensing devices. By applying LumaSense's proven systems and software, customers in Global Energy, Industrial Materials, and Advanced Technologies are able to reduce waste and inefficiency in their processes. For more information about LumaSense Technologies, visit www.lumasenseinc.com.

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