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The new optris infrared camera Xi 05M MeltScope

More safety, better quality, lower costs in metal applications

Berlin, June 2025 – With the new Xi 05M MeltScope, Optris GmbH & Co. KG introduces a powerful infrared camera designed specifically for precise measurement of extremely high temperatures. With a continuous temperature measurement range from **950 °C to 2450 °C**, it is the **world's first compact IR camera of its kind** – ideal for demanding metal applications such as **molten metal monitoring** and **foundry processes**.

Thanks to its short-wavelength **spectral range** of **500–540 nm**, the Xi 05M MeltScope is perfectly suited for metallic surfaces and liquid metals. The infrared camera enables accurate temperature readings even in the presence of **intense glow and reflections**. With a resolution of 396 × 300 pixels and a **high-speed linescan** mode of up to 500 Hz, it delivers reliable data even in dynamic processes – and can, in many cases, **replace traditional dip lances entirely**.

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Advanced functions guarantee flexible use of the Xi 05 MeltScope camera

The Xi 05M MeltScope is not only efficient but also highly versatile: It features Ethernet or RS485 output, supports **autonomous operation**, and provides **direct analog alarm** outputs. The included PIX Connect software offers extensive analysis functions, including **hot spot detection**, web server capabilities, and support for industrial network protocols such as Profinet, EtherNet/IP, EtherNet TCP or Modbus TCP.

“The Xi 05M MeltScope takes temperature monitoring in metal applications to the next level,” says Torsten Czech, Head of Marketing at Optris. *“Its rugged design, extremely high temperature range, and fast linescan capability not only enable precise and safe processes – they also offer significant cost savings for manufacturers. Especially in liquid metal applications where conventional methods reach their limits, the Xi 05M MeltScope is a true gamechanger.”*

With **optional accessories** like water cooling, air purge, or protective shutters, the camera is also perfectly suited for **harsh industrial environments**.

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About Optris GmbH & Co. KG

Optris GmbH & Co. KG was founded in 2003 and has established itself as one of the leading manufacturers of non-contact temperature measurement devices. Its product portfolio consists of both wearable and stationary infrared thermometers and online infrared cameras for thermographic real-time analyses. Optris develops and produces in Germany to ensure the highest standard in quality as a key component of its company policy.

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