



**New**

**optris**  
infrared measurements

**CSvision R1M & R2M - Ratio pyrometer**

- Motorized focus and excellent optical resolution (up to 150:1) Spectral ranges: 0.8  $\mu\text{m}$  - 1.75  $\mu\text{m}$
- Innovative video sight and crosshair laser for easy sensor alignment under all viewing conditions
- Two-step brightness reduction filter for best viewing conditions on bright objects
- Measuring ranges: 300 °C - 3000 °C

Works with CompactPlus Connect Software and the IR Mobile App from Optris

## Ratio pyrometer for high temperatures With CSvision for robust real-time process monitoring

**A range from 300 °C to 3000 °C: With the new CSvision series of ratio pyrometers from Berlin-based infrared specialist Optris, it is possible to measure the temperature of metals, melts or ceramics non-contact, safely and reliably from different distances.**

Infrared pyrometers must meet high demands: Especially in metallurgy, they are often used under harsh conditions in which they must deliver reliable results at any time. Smoke, steam, or dust often impede a clear view of the measured object and affect the measurement signal. In these conditions, **ratio pyrometers** nevertheless provide stable measured values - compared to single-channel pyrometers, even with dirty optics or with objects that move within the measuring field (e.g. metal rods or wires).

The new CSvision is equipped with the innovative **Smart Ratio Mode (SRM)** and can thus master even challenging applications with variable emissivity ratios. The built-in **video sight** and the **motorized focus**, which can be operated via software or app, allow the CSvision novelties to be focused very conveniently on the respective object. The switchable two-stage **brightness reduction filter** ensures optimum viewing

conditions even with very hot and therefore bright objects. Together with the **crosshair laser**, which is also standard, this ensures simple sensor alignment under all conditions.

## Two infrared pyrometers for precision-fit applications

The CSvision R1M offers an **optical resolution** of up to **150:1** and a measuring range of **600 to 3000 °C** with a **spectral range of 0.8 to 1.1 µm** - in harsh industrial environments up to 65 °C without cooling. The R2M has an optical resolution of **75:1** and a spectral range of **1.45 to 1.75 µm**. This allows temperatures to be measured from as low as **300 °C to 1400 °C** (up to 60 °C without cooling).

## Easy sensor setup and monitoring via app

Optris creates an easy-to-use solution with the CSvision series that can be set up quickly and easily. The infrared thermometers have an interface to the **IRmobile Android app** and **CompactPlus Connect** software. This allows easy video alignment

and real-time process monitoring. Two analog outputs are available for process integration, as well as digital interfaces such as **RS485** or **Modbus RTU**.

A variably **programmable I/O** pin can optionally be used as alarm output, for signal triggering or e.g. for external emissivity/slope settings.



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*The CSvision is also usable with the optris IRmobile App*

## About Optris GmbH

Optris GmbH 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.

## Images

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***OPTCSVIR1MLSF-left side front tripod-WEB.jpg***

SL: The new ratio pyrometer CSvision from Optris – Front view

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***OPTCSVIR1MLSF-top-WEB.jpg***

SL: The new ratio pyrometer CSvision from Optris – Top view

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