



WHEN TEMPERATURE MATTERS

COMPANY PROFILE



Optris

YOUR RELIABLE PARTNER FOR INFRARED TEMPERATURE MEASUREMENTS

Optris GmbH was founded in 2003 with the aim of enhancing the range of non-contact temperature sensors with advanced measurement and application principles.

Optris offers high quality infrared thermometers and thermal imaging cameras at affordable prices. The goal is to make state-of-the-art infrared technology available to all customers.

The product portfolio includes portable and stationary infrared thermometers and infrared cameras, associated accessories and software for industrial applications, and research and development.

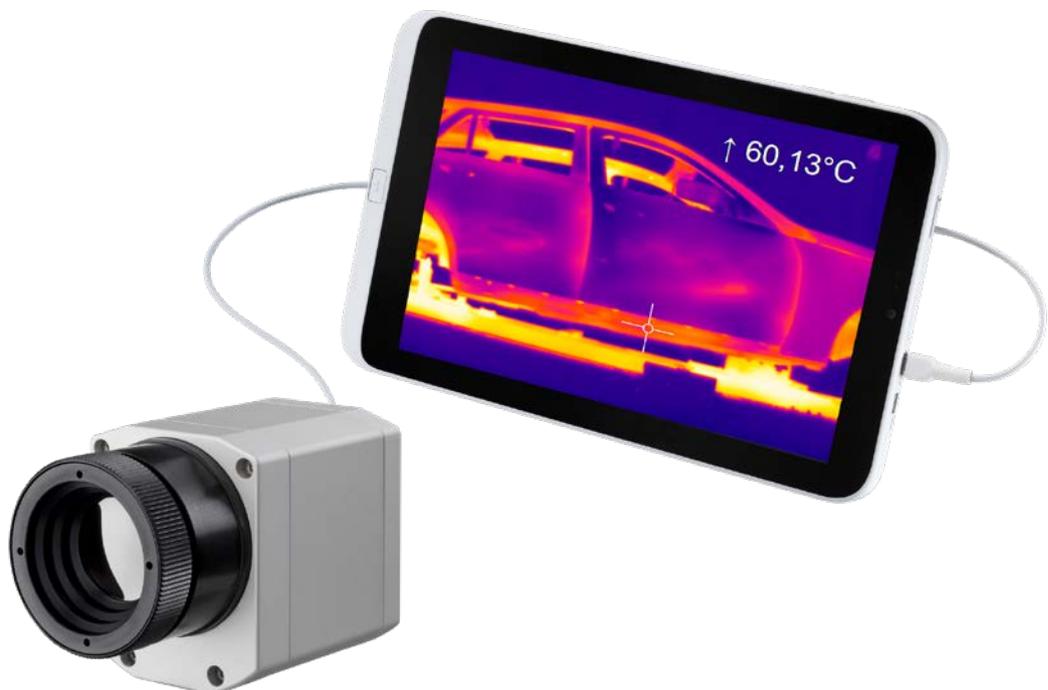
In order to ensure high product quality, in addition to product development, 90 percent of production and sales are carried out at the headquarters in Berlin. Close collaboration between the departments enables us to continuously expand our product range and respond quickly to market needs.

In order to guarantee smooth manufacturing of all products, all internal processes of Optris GmbH are certified according to DIN EN ISO 9001:2015.

Since its founding in 2003, Optris GmbH has developed into one of the world's leading companies in the field of non-contact temperature measurement.

Our direct sales network consists of capable engineers who ensure that our customers receive expert advice and in turn, the right solutions for their measurement requirements.

We place great emphasis on ensuring that all sales partners receive ongoing professional training and have detailed information about our products.





Optris managing director Dr.-Ing. Ulrich Kienitz combines 45 year of passion for infrared with a great deal of practical experience. Thanks to the entire Optris team, our products have been successfully deployed and used in more than 800,000 installations worldwide.

German Engineering

Thanks to our extensive know-how and pioneering concepts, our experienced engineers and physicists continually provide impetus for new product developments and exceptional solutions.

Made in Germany

We develop and manufacture in Germany to ensure the highest quality standards as an essential part of our corporate policy.

Top quality at reasonable prices

We provide state-of-the-art infrared technology. We share the cost advantages from large quantities in the purchase of semiconductor products and in production directly with our customers.

Corporate Social Responsibility

We take our corporate responsibility seriously – that is why we ensure environmentally friendly production and a safe working environment for our employees.

Optris history

THE KEY STEPS IN OUR HISTORY



2003

Foundation of the Optris GmbH

Optris GmbH was founded in 2003 with the aim of enhancing the range of non-contact temperature sensors with advanced measurement and application principles.

2005 | 2006

Optris introduces the portable IR thermometer LaserSight (LS) with patented crosshair laser sighting

In addition to the launch of this sophisticated instrument with switchable optics in 2005, the miniaturized pyrometer series CS and CSmicro will be introduced in the following year 2006.

Development of the first stationary IR thermometer

Optris develops the first stationary infrared thermometer CT. In the same year Optris goes international and starts a cooperation with Optris Shenzhen. With this, Optris opens up the Chinese market.

2004

Launch of first IR imager PI 160

It is a new state of the art thermal imager with ready to use USB 2.0 interface for real-time thermography with 120 Hz frame rate.

2008





2011

Doubling of manufacturing area

„The spatial expansion reflects the company’s development during the last years. I am delighted to see our products in applications all over the world”, Ulrich Kienitz PhD, CEO of Optris.



2014

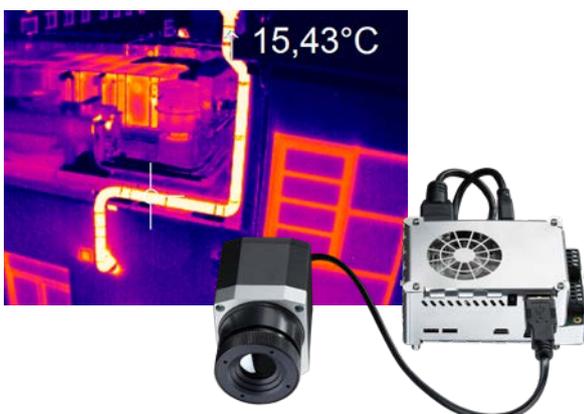
PI 640 VGA infrared camera

One of the worlds smallest infrared cameras with VGA resolution – ideal for integration in industrial and R&D processes.

Fully radiometric aerial thermography with the PI LightWeight

The PI LightWeight is uniquely suited for maintenance work and quality inspections of solar and wind power systems and also for thermographic surveys of buildings.

2013



PI 1M Short wavelength IR camera for the metal industry

The PI 1M features a continuous temperature measurement range of 450 °C to 1800 °C, a frame rate of up to 1 kHz and selectable and exchangeable optics.

2015



Optris history

THE KEY STEPS IN OUR HISTORY



2016

PI 640 G7 – first VGA infrared camera for the glass industry

Dedicated for flat glass production or glass tempering lines this camera can also be used in linescan mode which makes it ideal for process control in these applications.



2018

Launch of the compact spot finder IR cameras Xi 80/Xi 400 & IRmobile app for Android

The Xi series is a fusion of a rugged, compact pyrometer and a modern IR camera. The integrated spot finder function will identify the hottest (or coldest) spot in the image and automatically communicate these measurements without an external PC.

Optris IR Sensing starts its business in Portsmouth/USA

Optris IR Sensing starts business in Portsmouth/USA. Meanwhile in Berlin the annual production of more than 60,000 pyrometers and cameras forces an expansion of the manufacturing area to 3000 square meters.

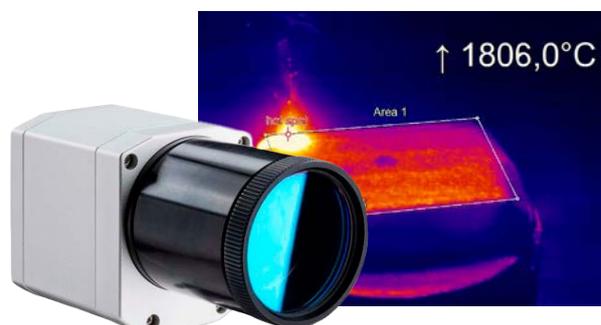
2017



Specialized infrared camera for laser machining processes PI 08M

The PI 08M is ideal suited for almost all NIR and CO₂ laser processing applications as radiation above 800 nm is blocked excellently.

2019





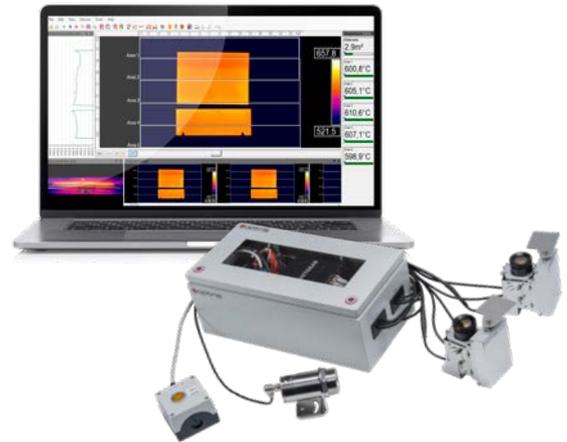
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2020

Ratio pyrometer CTratio for high-temperature measurement of metals

It is especially suited for measurement of extremely high metal temperatures. The rugged sensing head and fiber optics can be used in hot environments up to 315 °C.



2022

New Bottom up system for glass tempering plants

The new system solves the low-E coating problem by having two infrared imagers installed underneath the tempering line which measure the temperature on the non-coated high emissivity side of the glass.

New high speed pyrometer CT 4M for very fast processes

With a response time of only 300 μs the pyrometer is a great fit for fast high-volume production and packaging processes (eg. PET preform temperature monitoring).

2021



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Innovative ratio pyrometer with video sighting

With the CSvision Optris launches a new class of pyrometers with video and laser sighting, motorized focus and a unique switchable two-stage brightness reduction filter.

2023





Fields of application

PROCESS OPTIMIZATION VIA TEMPERATURE MONITORING

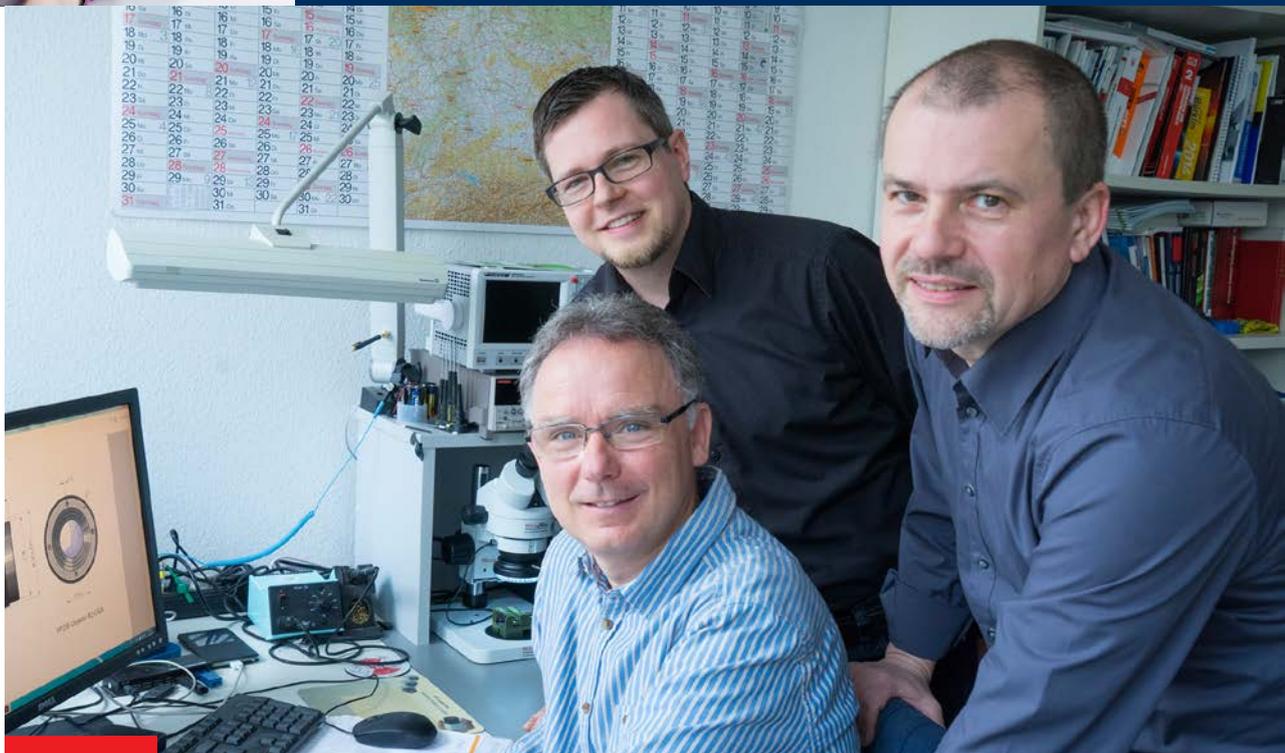
Optris is an intelligent and adaptive company. This is indicated by the healthy mix of young and experienced employees.

Christopher Gerner, Development



In many manufacturing processes, the product and process temperature are important physical variables.

Non-contact temperature measurement with Optris sensors and thermal imaging cameras ensures high production line quality standards.



Thomas Günther, Development

I find it especially positive that we employees have a direct influence on the development of the products. And that everyone shows interest even in projects that they are not officially working on.

Johannes Gentz, Development, Uwe Klonowski, Development



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METAL INDUSTRY

Our non-contact measuring sensors are now indispensable in the production and processing of metal.

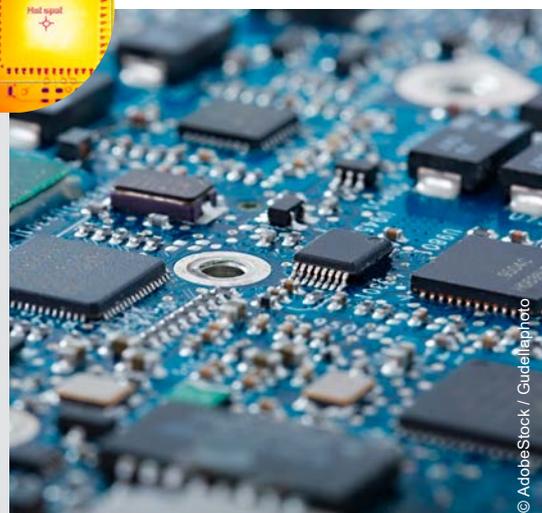
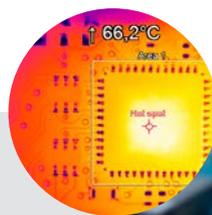
Particularly on the rolling line, during induction hardening and die forging, it is important to continuously monitor the temperature of the metal. Using our measuring instruments not only enables the production of highest quality products, targeted process perfection also decreases manufacturing costs.

In addition to temperature measurement devices for liquid metal, our product range also includes pyrometers for high temperature measurements of up to 3000 °C, which also measure accurately in harsh environments and environmental temperatures of up to 315 °C with additional cooling.

GLASS INDUSTRY

In order to ensure the highest level of quality, the glass industry and its energy-intensive production process relies on dependable means of temperature monitoring.

Our glass thermometers and IR cameras are optimally suited to non-contact temperature measurement of glass surfaces and use innovative double lasers to indicate the exact measurement spot.



AUTOMOTIVE INDUSTRY

In the automobile industry there are numerous production steps in which a variety of materials are processed. In order to guarantee flawless product quality, Optris provides efficient solutions for process temperature monitoring and optimization using infrared thermometers and thermal imaging cameras.

SEMICONDUCTOR INDUSTRY

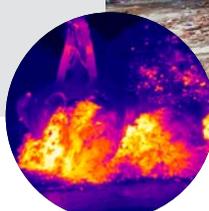
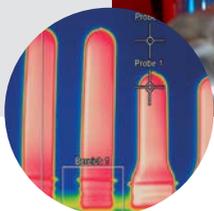
Continuous monitoring and process optimization is vital in the solar and semiconductor industry. Our pyrometers and infrared cameras support the quality and function control of circuit boards and solar modules. Thanks to reliable hot spot and cold spot detection, any potential defects are identified quickly and accurately.

PLASTICS INDUSTRY

The manufacturing processes in the plastics industry are as varied as the plastics themselves. Optris has the perfect solutions for non-contact measurement of temperatures in the injection molding process, in PET bottle manufacturing or for thermoforming films. You can be sure that your plastic is always at the right temperature – thereby avoiding waste.

SAFETY

Early fire detection with infrared cameras and infrared thermometers is an important protective measure in the industry designed to avert irreparable damage in industrial plants and buildings. Hence surfaces can be observed 24/7 and protective measures can automatically be introduced via process technology.



A very pleasant working environment with a flat hierarchical structure and an extremely amicable group of employees.

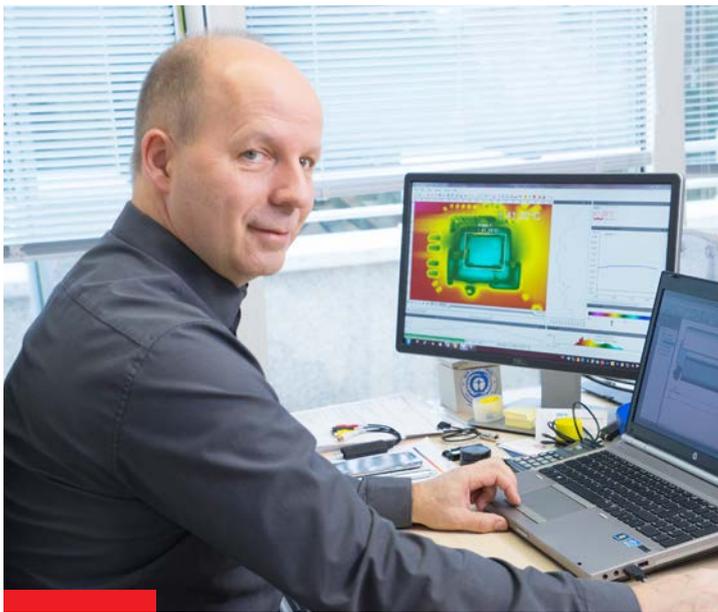
Mario Michel, Manufacturing Engineering





Product range

TEMPERATURE SENSORS & INFRARED CAMERAS



Optris specializes in innovative temperature measurement technologies.

The quality and flexibility of the sensors and thermal imaging cameras offer a variety of benefits and ensure cost savings.

We can be proud that we increased our number of employees to 115 in only twenty years!

Torsten Czech, Marketing



René Rösch, Manufacturing Engineering





INFRARED THERMOMETERS

Intended for spot temperature measurements and for a wide range of configurations in almost all fields of application.

Our infrared thermometers are subdivided into the following categories:

CS | CSmicro series

Compact size, Smart features for very limited installation space

CT series

Small head, Separate control box for comfortable use with display and programming keys

CSlaser | CTlaser series

Double laser, Several optics for large distances or small objects

CSvideo | CTvideo series

Vario focus, Laser and Video sighting for any distance and difficult viewing conditions

CTratio series

Ratio pyrometers for small, obscured or moving objects

CSvision series

Innovative pyrometers with motorized focus and video sighting

INFRARED CAMERAS

Optris PI infrared cameras produce thermal images with exact temperature information in real time and are so small that they can be easily installed.

Our lightest models are also suited for aerial thermography and offer complete radiometric IR inspection with up to 640×480 pixels.

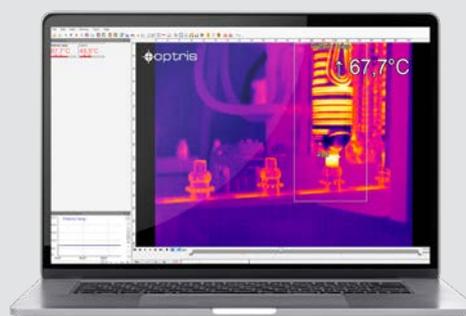
The USB 2.0 interface offers a universal connection to PCs for high-definition thermal images, analysis of surface measurements and storage of temperature curves via the optris PIX Connect thermography software.



SOFTWARE & APPs

In addition to its temperature measurement instruments, Optris also offers a wide range of software solutions, which can be designed to meet the customer's requirements.

Especially the Optris software PIX Connect is used worldwide in various applications to display, evaluate and analyze measurement data. Optris also offers mobile solutions such as the IR mobile app. Measurements and evaluations can be carried out quickly and easily on a smartphone via the company's own apps.



Development & Production

WORK PROCESSES AND COMPANY STRUCTURE



Thanks to the close cooperation of product development, production and sales, we can continually expand our range and react quickly to market requirements.

Short decision-making paths and transparent structures make us more flexible in competition and open to new ideas.

Not only is the entire development and production based in Berlin, I can also rely on domestic partners for procurement and consequently secure jobs in Germany.

Michael Mehlitz, Purchasing

TEMPERATURE MEASUREMENT TECHNOLOGY MADE IN GERMANY

In order to ensure the high quality of Optris products, 90 per cent of the production – as well as our product development – is carried out at our headquarters in Berlin. This is also where we coordinate our global sales.



It makes me proud that the software that I have developed is used in so many applications.

Matthias Wiedemann, Development

SUPPORTING OUR EMPLOYEES

Maintaining a good relationship with our employees is very important to us – their continued specialized training plays an essential role. We support student employees, degree candidates and apprentice trainees in our company and facilitate their participation in further education.

CERTIFIED QUALITY

To guarantee the consistently high quality of our products, all Optris in-house processes are certified according to DIN EN ISO 9001:2015. This ensures smooth product manufacturing processes.



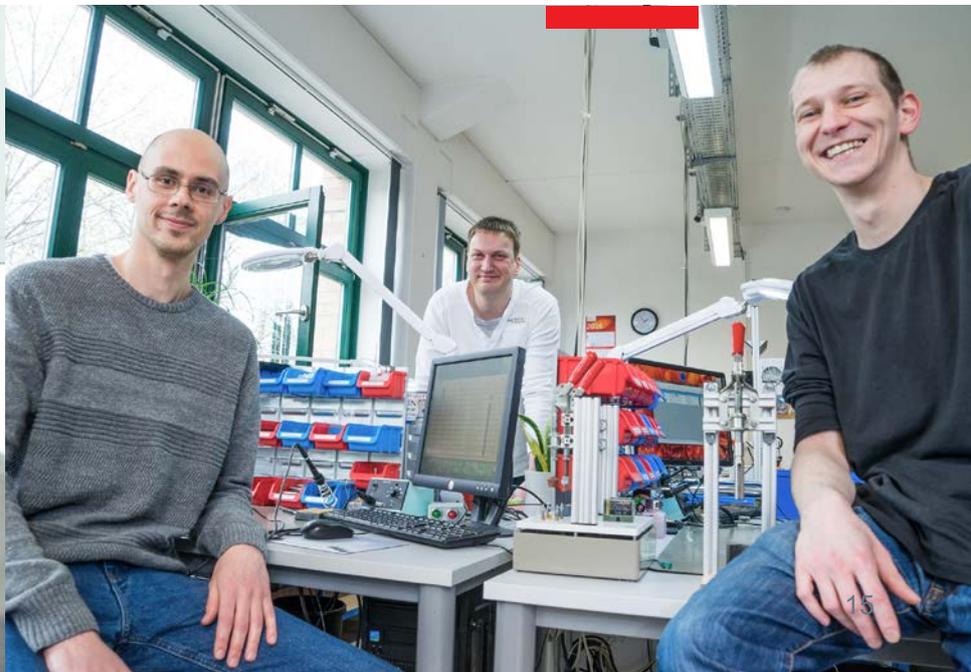
Christoph Kleeman, Production

Christian Urbigkeit, Production

Frank Kollewe, Production

Optris sets itself apart with its high level of quality consciousness and the opportunities to work independently.

Chris Lange, Production



Consulting & Service

GLOBAL DISTRIBUTION NETWORK



Optris has international presence due to its extensive network of sales partners. We highly value their expertise and regularly conduct product and application training events. This provides customers who use Optris infrared thermometers and thermal imaging cameras with expert global support.

With Optris you can develop your potential – and I will not unnoticed. This creates a service team that is flexible and willing to do their utmost to help the customer resolve any issues as soon as possible.

Christian Hagemeyer, Service

SATISFIED CUSTOMERS

Our experienced application engineers guarantee expertise in the office and in the field. They ensure that our customers get first-class advice, reliable solutions for their measurement tasks, and excellent service.

COMPREHENSIVE SERVICE

As a globally operating company, comprehensive global customer support is vital to Optris. This is not only based on providing advice on infrared technology and new products, but is a living exchange of experience. With our international network of service partners, Optris is perfectly positioned for future development.



GLOBAL PRESENCE

We keep in close contact with our global sales partners and ensure that every customer project can be realized locally using the best-suited technology. Our international distributors are not only familiar with Optris products – they also know their country-specific attributes.



I am proud of Optris's pioneering technology. We have a market niche that distinguishes us from many other companies. As international sales engineers we understand other cultures.
Teresa Maya, International Sales



New distributors take part in a technical sales training.

Optris worldwide

OUR INTERNATIONAL SALES PARTNERS

Optris has three locations worldwide – the headquarters in Berlin (Germany) and two further locations in Portsmouth (USA) and Shenzhen (China).

We have an extensive network of distributors for the worldwide distribution of products and professional customer support on site.

Find out more
www.optris.com







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