Press Release



# New infrared wide-angle lens with environment-resistant coating for thermographic cameras.

The new Jenoptik 1.0 / 7.5 millimeter wide-angle lens has been specially designed for thermographic cameras of the current VarioCAM® HD and IR-TCM HD series. Its innovative hybrid DLC ("Diamond Like Carbon") surface coating protects the high-quality optics when used under extreme ambient conditions.

## To see more – to know more: Large field of view for smallest details.

A large 135° x 100° field of view enables measurement and surveillance of large objects – even from a short distance. Our high-resolution thermographic cameras VarioCAM® HD and IR-TCM HD, for which the lens was manufactured, are used for a precise measurement of smallest thermal object details and hot spots; the series' clear advantage is the image resolution of up to 3.1 infrared megapixels when using the 7.5 millimeter wide-angle lens.

## Tough: Hybrid DLC surface coating.

Stationary IR-TCM thermographic cameras for industrial use, in particular, have to resist severe endurance tests because rough ambient conditions and process-related influences may affect camera and optics.

While people wear safety goggles to protect their eyes under such conditions, the infrared optics of the thermographic camera is protected by a newly developed coating. The new hybrid DLC coating combines the durability of a diamond coating with an improved transmission and multispectral functionality of a dielectric coating thus guaranteeing optimum reproduction. The lenses with our innovative coating technology are manufactured by the Optical Systems division of Jenoptik. Jenoptik, as your development and production partner, offers customized infrared lenses with hybrid DLC coating for military, civil and industrial purposes.

Image:
hybrid DLC coated 1.0 / 7.5 millimeter infrared lens mounted to IR-TCM HD thermographic camera
Download: Link to image database

## Jenoptik on SPIE Defense, Security and Sensing 2013

Visit us at our booth # 1549 on the SPIE Defense, Security and Sensing trade show in Baltimore, MD, USA, from April 29 to May 2, 2013, and learn more about Jenoptik infrared optics and thermographic camera systems.

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# About Jenoptik and the Jenoptik Divisions Optical Systems and Defense & Civil Systems

As a comprehensive optoelectronics group, Jenoptik divides its activities into five divisions: Optical Systems, Lasers & Material Processing, Industrial Metrology, Traffic Solutions and Defense & Civil Systems. Its customers around the world mainly include companies in the semiconductor and semiconductor equipment manufacturing industry, automotive and automotive supplier industry, medical technology, security and defense technology as well as the aerospace industry.

With its Optical Systems division the Jenoptik Group is one of the few manufacturers in the world to produce precision optics and systems designed to meet the highest quality standards. Besides optomechanical and optoelectronic systems, modules and assemblies the division is a development and production partner for optical and micro-optical components– made of optical glass, infrared materials as well as plastic. It possesses outstanding expertise in the development and manufacture of micro-optics for beam shaping used in the semiconductor industry and laser material processing. The product portfolio also includes systems and components for the areas of defense & security, life sciences as well as lighting and system solutions and modules for digital image capture and processing as well as cameras for digital microscopy.

In the Defense & Civil Systems division Jenoptik combines optoelectronics with precision mechanics to create complex components, systems and facilities. The focus is on the areas of military and civil vehicle, rail and aircraft equipment, drive and stabilization technology as well as energy systems. The product range also includes optoelectronic instruments and systems for the security industry as well as software, measurement and control technology. In the laser and infrared sensor systems field the focus is on the development, manufacture and marketing of laser distance measurement equipment as well as infrared camera systems designed to meet a wide range of applications.