

Exhibition

AT – Automation Technology GmbH

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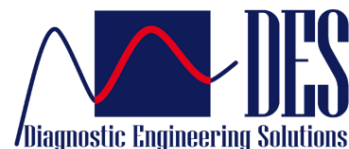


AT – Automation Technology is an internationally known manufacturer of 3D sensors and infrared imaging systems. The company has more than 16 years of experience supplying the industry with NDT systems for R&D laboratories, mobile NDT solutions, as well as systems for in-line quality assurance in production processes. The IRNDT system of AT - Automation Technology is a modular NDT solution that can easily be customized to meet most application requirements. It supports all known active thermography techniques, such as Lockin-, Pulsed-, Transient-, Vibro-thermography and Thermal Stress Analysis, as well as a wide variety of excitation sources. Among those, IRNDT features halogen lamps, flash lamps, eddy current, Laser and ultrasound. Furthermore, other excitation sources can also be easily controlled through the digital and analogue outputs of the system's electronics interface. As a result, customers receive a flexible and cost effective solution that can be upgraded at any time.

AT devotes also special attention to the user-friendly design of its systems. Therefore, the company maintains a regular exchange of information with its customers to keep its solutions on the cutting edge of technology. This assures the use of state-of-the-art technology and enables AT to have industry-specific NDT solutions for aerospace, automotive, electronics or plastics industries. In addition, AT – Automation Technology is also a manufacturer of high-speed 3d sensors for fast and precise 3D scans by means of laser-triangulation. Each model of the CX series comes with different resolution, measuring speed, housing sizes, etc. and provides OEMs an excellent basis for the integration in their systems.

DIAGNOSTIC ENGINEERING SOLUTIONS SRL

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Diagnostic Engineering Solutions starts in 2010 as a Spin Off Company of Politecnico di Bari, aiming at the industrialization of the results of almost twenty years of research and test carried out in the Laboratory of Structural Diagnostics and Thermal Methods for Experimental Mechanics.

The core business is: planning and realizing advanced diagnostic systems for the structural analysis of components and monitoring processes. The proposed solutions find application in standard hardware and software products, and in customized systems for non-destructive controls, the optimization and the monitoring of process. DES develops systems for the processing, analysis, monitoring, maintenance of structures, products, processes and services in automotive, aeronautics, mechanics, mechatronics, energetics, naval industry, by numeric-experimental methods and – in particular – Thermography.

Some ready-to-use standard products recently made by DES:

- MULTIDES SYSTEM laser-optical-flash: modular and customizable thermal excitation system, designed to perform NDT (Non-Destructive Testing) on different materials, using the most appropriate excitation source (laser, halogen lamps, flash).
- COMPOSITE DEFECT FINDER: compact thermographic analysis system for the detection and characterization of defects on compositematerial components.
- COATING ANALYZER: thermographic control system developed to evaluate the coating quality and integrity.
- IRTA – Infrared Testing and Analysis: modular and customizable software designed to analyze the thermographic data, recorded with thermal cameras, and to allow the definition of the optimal test.
- IDR – Infrared Disk Reconstructor: software that allows to reconstruct a brake disk, starting from a thermographic sequence recorded during braking.

edevis GmbH

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The company edevis is manufacturer and service provider in the field of Non-Destructive Testing with Thermography, Photothermal Radiometry and Shearography. Our employees have an experience of more than 15 years in the field of composites testing.

We develop and manufacture innovative thermography and shearography systems. Our product range covers flexible lab equipment as well as fully-automated test stands for industrial applications...

... in non-destructive material and component testing,

... in quality assurance and process monitoring,

... in maintenance and repair.

All our equipment is adaptable to specific customer needs. We provide full solutions: infrared cameras, software, feasibility studies, R&D projects, baseline investigations, consultancy and support, and product training. On-site service - with highly qualified inspection personnel. We offer flexible on-site inspection services. Our professional testers are certified according to DIN EN ISO 9712 level 2 and allow for a prompt and efficient inspection procedure.

FLIR Systems Inc.

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The World's Sixth Sense™

FLIR Systems, Inc. designs, develops, manufactures, markets, and distributes technologies that enhance perception and awareness. We bring innovative sensing solutions into daily life through our thermal imaging systems, visible-light imaging systems, locator systems, measurement and diagnostic systems, and advanced threat detection systems. Our products improve the way people interact with the world around them, enhance public safety and well-being, increase energy efficiency, and enable healthy and entertained communities.

HGH Infrared Systems

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Since 1982, HGH has provided leading edge electro-optical test solutions around the world: blackbodies, high performance collimators, universal test benches and integrating spheres figure among the sharp expertise they offer each year to universities, research labs, manufactures and test centers. HGH recently launched the most advanced generation of blackbodies, with a new electronic controller ensuring never-seen-before stability and accuracy.

InfraTec GmbH Infrarotsensorik und Messtechnik

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The Dresden-based company InfraTec GmbH Infrarotsensorik und Messtechnik is a specialist for products and services in the field of infrared technology. InfraTec was founded in 1991 and, with its own capacities in manufacturing and development, employs about 200 staff now. The business sector of infrared measuring technology operates in all areas of thermographic applications, with its scope of performance ranging from sales of thermographic cameras to the self-developed and manufactured high-end thermal camera series ImageIR®.

INPROTEC IRT S.r.l.

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The logo for INPROTEC IRT features the company name in a bold, italicized, red sans-serif font.

INPROTEC IRT was founded in 2010 as a new company split off from one of our actual share holder INPROTEC S.r.l. that started Infrared business from 1994. INPROTEC IRT, where IRT means Infra Red Technology, is dedicated to sell support and service Infrared equipment for all applications including software development and integration for fix IR cameras. Our mission is providing to our customers the best solution for their application getting advantage of our competence and Know-how with more of 25 years experience in infrared.

IRCAM GmbH

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The logo for IRCAM consists of three vertical bars of increasing height on the left, followed by the word "IRcam" in a grey sans-serif font, where the "I" is orange.

IRCAM is a German manufacturer of scientific-grade high performance infrared cameras for IR imaging and thermography. The cameras are available with a wide range of cooled quantum FPA detectors, including dual-band IR and dual-color IR FPAs. In addition to the cameras, IRCAM offers numerous IR lenses, software and accessories. IRCAM is specialized in customized development of IR cameras and components and offers advice and support directly by the developers.

IRCAM camera series include "VELOX" with cooled IR sensors, high-resolution and sensitivity, broad sensor selection, all IR spectral ranges, many options and fast interfaces; as well as "EQUUS" with cooled sensitive detectors, several spectral ranges and EU detector and cooler technology (for export), "GEMINIS" for the synchronous image acquisition in MWIR and LWIR (Dual-Band) or within the MWIR band (Dual-Color) and "TAURUS" for integrators & OEMs with industrial use (e.g. non-destructive testing).

Polytec GmbH

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Polytec has started its distribution business on electro-optical components and IR test systems for more than 50 years:

- Blackbodies, collimators, radiometers, spectro-radiometers, spheres, electro-optical test and remote-sensing equipment made by CI Systems
- SWIR 2d and line scan cameras from Sensors Unlimited/UTC
- Hyperspectral imagers made by Headwall Photonics

Not less long, Polytec develops and manufactures high-quality measurement systems for the analysis of vibration, length, speed and surface topography and is just the market-leader for non-contact, laser-based vibration and velocity measurement instrumentation. Another focus is the manufacturing of optical spectrometer systems and components for various applications in process analytics. Polytec's distribution business has been extended to large variety: to the full range of machine vision hardware. Polytec is also active in the field of optical UV, offers laser accessories, light, color and display measurement systems, DIC systems, spectral x-ray cameras, fiberoptic measurement technology for sensing and telecom applications as well. Photovoltaic and semiconductor metrology for resistance and layer thickness measurement is another field in the distribution business.

Telops France

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Telops designs and manufactures high-performance hyperspectral imaging systems and infrared cameras for defense, industrial, and academic research applications. Telops also offers R&D services for optical systems technology development in order to respond to the specific needs of its customers. Since its beginnings in 2000, Telops has distinguished itself with the quality of its personnel and its innovative approach to the technological challenges of the optics and photonics field. Today, the expertise of its scientists, engineers and technicians and the performance of its infrared cameras and hyperspectral imagers are internationally recognized. While being headquartered in Canada, Telops caters to an international market using an efficient network of distribution and representation.

The Hyper-Cam is an advanced passive infrared hyperspectral imaging system that combines high spatial and spectral resolution. It provides real-time radiometrically calibrated data for gas and solid detection and identification.

The FAST-IR infrared cameras offer high-speed thermal imaging with an impressive temporal resolution. They are therefore ideal to analyze dynamic events. These high-

performance infrared cameras are also extremely sensitive, thus enabling the detection of challenging targets. These fast cameras are also offered in high-resolution.

The MS-IR infrared cameras are equipped with an 8-position fast-rotating filter wheel, which allows the scene signal to be split into different spectral bands rather than one broadband image, thus enabling spectral signature analysis. The filter wheel mechanism is designed to maximize the cameras' frame rate and can be used in either fixed or rotating mode. Rotating speed is adjustable up to 100 per filter, thus allowing a frame rate up to 800 fps in synchronized mode.

The HDR-IR cameras are ideal to measure scenes that include an extended temperature range. They are equipped with a fast-switching attenuation filter mechanism. With this mechanism, the cameras maximize the dynamic range during image acquisition by automatically selecting the best attenuation filter.

VATH Bundesverband für angewandte Thermografie e.V

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WHAT IS THE VATH?

The VATH is a registered association with approx. 300 members. The federal association is formed by members from the service sector, the construction industry, the trade, the industry and medicine as well as universities, technical colleges, institutes, and infrared device manufacturers.

WHAT ARE OUR GOALS?

The purpose of the VATH is the promotion of the thermography, its applications and further development as well the opening up of new application areas. The VATH acts as a panel for the exchange of experiences and information and maintaining contacts at e.g. symposiums. The association supports beginners during their start in a new field of work. Further fields of tasks are consulting, further education as well as participation and representation of interests in boards and standards committees.