



HIMA supplies central control system for one of the most advanced laser research centers in Germany

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At the Centre for Advanced Laser Application (CALA) on the joint Munich Research Campus of Ludwig Maximilian University (LMU) and Technical University (TUM), researchers will develop laser-based technologies to help improve the cure rate of cancer patients. CALA will rely on a central control solution from HIMA Paul Hildebrandt GmbH.

The concept, design, programming, installation, commissioning and subsequent service of CALA's central control system will be implemented by HIMA. A HIMatrix F35 controller with 23 remote IOs comprise the high-level control system. That system will connect with subordinate systems and control many operational procedures. In special cases, such as during fire alarms or power outages, it will initiate the required measures and provide monitoring.

Complete solution with maximum stability

The HIMA solution is based on a simple and compact structure that ensures maximum stability and economical operation. Its modular structure makes the system highly flexible and able to be adapted to new conditions associated with forthcoming CALA extensions.

Construction at CALA is scheduled to be completed in August 2016. Large-scale scientific apparatus will be set up by the end of 2017. The CALA scientific building and large equipment infrastructure - an investment of nearly €70 million - will extend in core areas the research possibilities of the Munich Centre for Advanced Photonics (MAP) cluster of excellence. In addition to

supplying the hardware components, HIMA will develop the complete software architecture.

Three pillars in the fight against cancer

CALA's three-pronged innovative strategy for combating cancer is based on: 1) broadband infrared radiation for early-on detection of cancer cells in blood and compounds in the breath, 2) the use of brilliant X-rays for precise detection of primary tumors and 3) localized, high-precision, laser-driven radiation and particle therapy.



The Centre for Advanced Laser Applications (CALA) is under construction in Garching near Munich. Completion is scheduled for August 2016.

Photo: © Thorsten Naeser

About HIMA

The HIMA group is the world's leading independent specialist when it comes to safety solutions for safety-critical applications. Over 35,000 installed systems, as well as TÜV-certified hardware and software make HIMA the technology leader of the industry. For more than 45 years the world's largest enterprises in the oil and gas chemical pharmaceutical and energy generating industry have been relying on HIMA's products, services, and consulting for uninterrupted plant operation and protection of people and environment. HIMA solutions are also leading the way to increased safety and profitability in the railway industry, and in the areas of logistics and machine safety. The independent family-owned enterprise operates from over 50 locations worldwide, has a workforce of approximately 850 employees, and in fiscal year 2014 generated sales of €121 million. More information is provided at: www.hima.de

Press contact

HIMA Paul Hildebrandt GmbH
Daniel Plaga

Albert-Bassermann-Strasse 28
68782 Bruehl, Germany
Phone +49 6202 709-405
Fax: +49 6202 709-123
d.plaga@hima.com
www.hima.de

Press contact HIMA Americas

HIMA Americas Inc.
Nicole Pringal
Sr. Marketing and Public Relations Manager

5353 W Sam Houston Parkway N., Suite 130
Houston, Texas 77041, USA
Phone +1 713 482 2149 | Cell +1 713 876 9828
Fax +1 713 482 2065
npringal@hima-americas.com
www.hima-americas.com