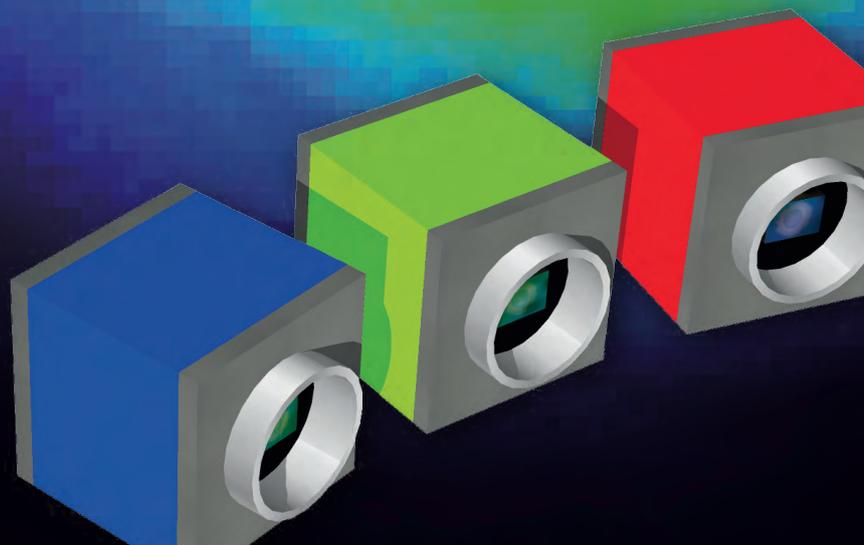# Laser Light Inspector

One software for all your cameras.

**Multiple
Cameras and
Manufacturers**

**Advanced
Acquisition and
Triggering**
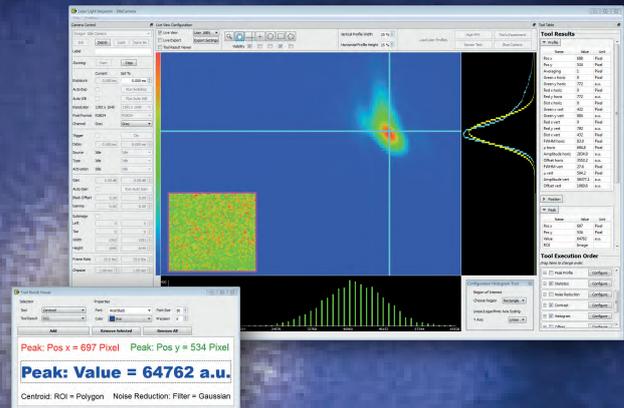
**Live
Image
Processing**

www.**invigon**.de

Key Features of Laser Light Inspector

- **Live view** with pseudo colors, profiles and histograms.

- **Many cameras and manufacturers supported**, including AVT, Basler, The Imaging Source and more. Almost any camera can be added on request.

- **Harmonized camera setup for all models** with external triggering and XML files to save and load settings.

- **Live image processing and analysis**, including noise reduction, Fourier transform and Gaussian fits.

- **Regions-of-interest** for image processing and statistical analysis (circular, rectangular and polygon-shaped).

- **16-bit color maps** to uncover hidden details from high color depth cameras.

- **Across-the-room result viewer** in an extra window with customizable text size and laser goggle friendly colors.

- **Customizable graphical user interface** to perfectly fit on dual display desktop systems and on laptops.

- **Live image deactivation during image series acquisition** for maximum performance, even on weak hardware.

- **Open and simple file formats** for efficient post-processing.

Applications

Beam Characterization – with calculation and visualization of fits and statistical parameters.

Beam Adjustment – with a dynamic crosshair on the fitted centroid and a result viewer featuring readability from across the room and laser goggle friendly colors.

Synchronizing Multiple Cameras – with external trigger sources and properly enumerated file names.

Tailored to Your Needs

Increase the benefit from your new or existing cameras through better, customized software.

Laser Light Inspector supports a wide range of cameras from different manufacturers. We can add support for almost any other model.

We can develop custom image processing tools, statistical methods, visualization modes and export filters.

Built with Experience

Laser Light Inspector was instigated by the Helmholtz-Zentrum Dresden-Rossendorf.

Working with Invigon

Laser Light Inspector is developed by Invigon GmbH in Jena, Germany.

Invigon is a solution provider for technical and scientific software, optics and imaging systems.

Our skilled team consists of physicists, mathematicians and engineers with many years of experience in science.

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