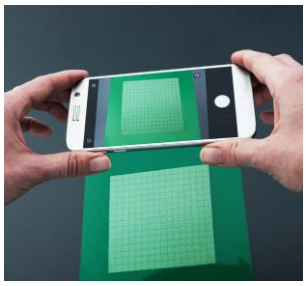
PRESS RELEASE

Smartphones Improve Laser Processing Quality

Smart calibration software corrects system-specific inaccuracies

Puchheim, Germany – June 6, 2017 – SCANLAB GmbH's CALsheet program places a new, exceptionally easy-to-use calibration solution into customer hands. The software enables simple correction of system-specific errors. With just a few steps, custom correction files can be generated that improve processing accuracy to as good as 30 µm.



In laser processing, highest quality is of capital concern. The more expensive the processed components and shorter the allotted processing time, the more crucial it is to avoid rejects from the get-go. To this end, SCANLAB has added the CALsheet program to its line of calibration solutions.

Materials processing and marking applications via scan systems with an F-Theta objective and two mirrors on galvo scanners will produce characteristic image field distortions, also known as pincushion and barrel effects. Wherever SCANLAB scan systems are driven by RTC control boards, these inaccuracies and system-specific properties can be compensated via a new calibration solution in just a few steps.

A paper test sheet is laser marked and then overlaid with a transparent, grid-structured glass master. The marked sheet with overlaid master is then photographed, either simply via a smartphone or with a flatbed scanner for even more precise results. As soon as the image is transferred to the calibration software, a custom correction file can be calculated from it. When laser processing again with this correction file, accuracy improves to 50 µm when a smartphone photo was used, or 30 µm for a flatbed scanner image. The entire procedure of optimizing process results takes only a few minutes.

Print-quality images can be downloaded at
www.scanlab.de/en/news-events/image-library.

Current Tradeshow Calendar:
LASER World of Photonics 2017 from June 26 - 29, 2017 in Munich, Germany – Hall A2, Booth 215.

About SCANLAB:
With over 20,000 systems produced annually, SCANLAB GmbH is the world-leading and independent OEM manufacturer of scan solutions for deflecting and positioning laser beams in three dimensions. Its exceptionally fast and precise high-performance galvanometer scanners, scan heads and scan systems find application in industrial materials processing and the electronics, food and beverage industries, as well as biotech and medical technology.

For over 25 years, SCANLAB has secured its international technology leadership through pioneering developments in electronics, mechanics, optics and software, as well as the highest quality standards.

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