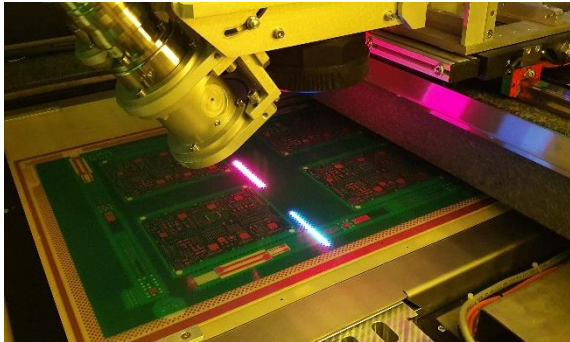




Winner of the
productronica
innovation award 2019

PCB & EMS cluster – Limata GmbH



LUVIR Technology

The much-valued precision of the direct imaging of solder masks is generating an increasing amount of interest in the PCB manufacturing industry. However, the certified solder masks widely used to date require high doses of UV energy. After several years of practical experience, though, it is now consistently clear that existing technologies cannot achieve sufficient capacity for conventional solder masks.

LUVIR Technology consists of a unique combination of ultraviolet and infrared laser direct imaging in the area of PCB lithography, whereby the UV laser, as previously, carries out the polymerization and imaging of the coating, however the IR component dramatically increases the polymerization efficiency.

As the amount of UV energy required is what limits the speed of all systems, this means the capacity of the machine significantly increases with small amounts of UV. As a result, the speed of the polymerization process can be considerably increased if the medium is imaged at a higher temperature.

LUVIR exposure units (UV/IR) are used as standard on all LIMATA X series (X1000 / X2000/ X3000) system solutions and can be configured in line with the customer's actual capacity requirements and investment budget on a modular basis. Well-known manufacturers such as Würth Elektronik GmbH & Co. KG and the North-American group TTM Technologies have already been successfully using the technology for several months as part of daily production.



Matthias Nagel, Co-founder, Limata GmbH:

“It took four years to develop LUVIR: a really outstanding team achievement! Numerous major hurdles were overcome one by one and with a real sense of teamwork and motivation, from the concept stage right through to technical execution and final integration in the production lines. Exceptional levels of efficiency have been seen and achieved in these production lines all around the world for almost a year now, and hearing about how thrilled our customers are is a wonderful reward for all the hard work. And winning the Innovation Award for LUVIR at the world's largest electronics trade fair is truly the icing on the cake.”

Limata GmbH:

Limata GmbH is a provider of Direct Imaging System solutions for the global PCB manufacturing industry and adjacent markets. The product portfolio ranges from system solutions for high-mix / low-volume production, and niche applications such as high-copper bonded substrates or oversized PCBs right through to fully automated series production applications (automotive and consumer electronics sectors). Limata is a dynamic, innovative and customer-focused company with service centers, employees and distributors located in all key regions of the PCB manufacturing industry. The main site in Ismaning near Munich covers development and engineering and also includes the application center.

Limata GmbH

Gutenbergstr. 4,
85737 Ismaning
Germany

Contact

Matthias Nagel
Phone: +49 89 21 90 91 135
E-mail: Matthias.Nagel@limata.de