

PRESS RELEASE



Hamamatsu Photonics introduces a range of lasers that can be used for multiple industrial applications

Hamamatsu Photonics are proud to introduce two industrial laser products, SPOLD (Spot Laser Diode) and LD (Laser Diode) Heater. By using particular configurations, this allows both products to be used in multiple applications including printed electronics, plastic welding and soldering.

For example: (1) Using a fan beam generator allows for faster curing of metal nano inks for printed electronics (2) Using specific lenses and laser allows for soldering and thermal curing of adhesives to be achieved and (3) Using the temperature sensing option enables high quality and repeatable laser welding of a large number of plastic types to become possible.

These new laser tools have the highest possible beam quality for these applications, meaning you get uniform heating across the whole of the laser focus area.

For applications like Printed Electronics compared to conventional oven heating, using the SPOLD or LD heater is faster, more directed (so as not to heat the entire substrate) and more efficient due to its localised nature of heating. After curing the metal nano-ink, the heat is instantaneously removed meaning that the substrate material is not as exposed to overheating effects such as distortion or shrinkage. Our laser technologies also enable more delicate parts of a flexible circuit to be masked so as not to induce heat whilst allowing areas around it to be cured meaning that the electrical resistance in the nano-ink is consequently reduced. In some instances, the laser curing process also leads to a lower electrical resistance compared to current methods.

Hamamatsu's SPOLD lasers are our entry-level laser range with powers ranging from 10 to 360 Watts CW laser energy.

Our LD Heater products offer built in real time temperature monitoring and powers ranging from 30 to 200 Watts.

If you have a process you think would benefit from this technology, Hamamatsu would be delighted to test your application using your supplied samples.

For further information contact us on 01707 294 888

Email: info@hamamatsu.co.uk or visit our website: www.hamamatsu.co.uk



(LD-Heater – L10060)



(SPOLD – Spot Laser Diode)