



## LightShot LSV3 UV Excimer Catheter Processing Workstation

Unparalleled, deep-UV laser catheter processing A self-contained workstation for R&D or production

Versatile, robust and easy to use, the LightShot V3 (LSV3) makes it possible to bring laser processing in-house and reduce manufacturing costs, without the need for a skilled technician.

Optec's intuitive ProcessPower™ software includes methoddevelopment functions that facilitate writing recipes for rapid-prototyping, pre-production and full production.

The LSV3 is equipped with maskprojection optics under PC control for "photolithography precision" ablations that removes insulation, residue and flashing without damaging the metal surface and with sharp transitions from polymer to metal.



## POLYMERS, EPOXY, GLUE

Reduce OD of tubing, ablate windows, drill thru holes and blind holes. Remove flashing from electrical contacts and electrodes, and more.

## FEATURING

- Deep-UV laser micromachining yields minimal HAZ (heat affected zone) without debris, residue or oxides.
- \* No damage to electrode.
- Flat, uniform beam removes ~ 1/3 um per shot.



- \* Confocal performance when the part is in the laser beam is in focus for rapid processing with high repeatability.
- \* Continuously variable demagnification optics amplify the energy density when more power is needed for challenging materials.
- \* User friendly software routines make it easy to develop part processing recipes.
- \* Precision ablation depth control down to 100nm per shot (material dependent) and energy density control for removing material layer-by-layer.
- High definition imaging down to 1.5 μm; submicron part positioning resolution and micron level ablation accuracy













Air-cooled, SFF\* excimer laser

windows

248 nm or 193 nm wavelengths

Mask-projection "flat" ablations

Live, zoom video microscope color viewing

Pneumatic rotary chuck with collets

Sub-micron resolution motion control

Integrated NEMA 12 gas cabinet

Integrated industrial PC

Auto-focus software function

Fume extraction

Class 1, interlocked, safety enclosure

\* Small Form Factor:

## **OPTIONS**: Automatic catheter feeders.

Optec is the leading provider of A-thermal laser processing systems specializing in deep-UV excimer & femtosecond laser configurations, plus fiber, YAG and TEA CO2 laser systems when required of the application.

Optec products are made-to-measure to suit the specific needs of each customer.

