LightShot

LightShot Laser Ablation Tool for microdrilling/milling in polymers and hard materials. Full featured, small footprint, exceptional performance;- Use your Photons!



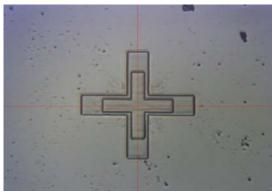
KEY FEATURES

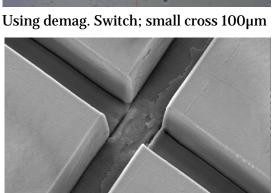
- ❖ 1µm machining resolution
- ❖ Switchable demagnification 10-16X
- ❖ PC selection from 32 ablation motifs
- ❖ >10J/cm² on the part; 2GW/cm² peak
- ❖ Motorized X,Y,Z axes for 3D
- Granite base/bridge structure for stability
- ❖ Motorized 12.5X zoom, on-axis colour vision
- ❖ Auto align to fiducials
- **❖** *CAD compatible*

APPLICATIONS

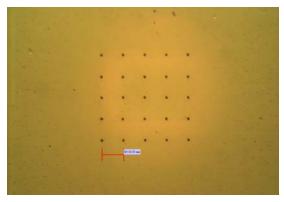
- Milling/drilling of a wide range of polymers & composites
- Micro hole drilling/grooving of hard materials.
- Deep drilling of orifices in medical components
- Trimming of electronics/sensors







50µm channels in PET



1μm holes on 10μm pitch



Exposing braid in Pebax

Laser

Wavelength 193nm Maximum e.d. $>10J/cm^2$ Rep rate 300Hz Feature size 5-250µm* UV resolution 1µm **Focus Range** 50mm

Part positioning

Travel range 100mmx100mm Resolution 1µm 1-2µm Repeatability <10µm Absolute accuracy

248nm option

Trade-off adjustment for e.d. vs spot size

500Hz & 1kHz options available

32 motifs on motorized selector(*e.d. limit at 250µm)

UVFS/CaF2 optics, 0,2n.a.

Motorized

Vision Systems

TTL image colour

Zoom Ratio 12.5X motorized 1000X magnification

220μm min. 5mm max. **FOV**

