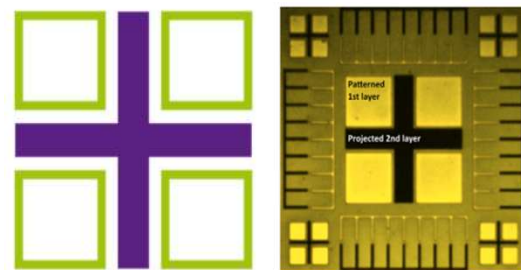
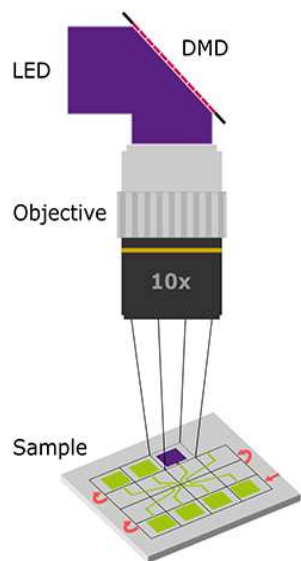


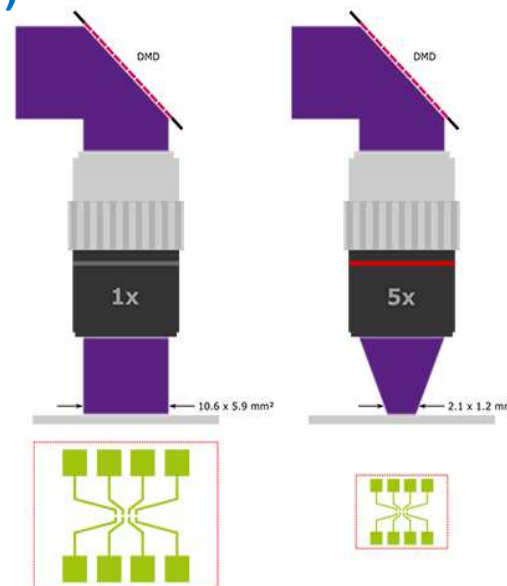
## Maskless Laser Lithography (Smart Print UV)



**SP-UV is equipped with a 385 nm LED source to be compatible with standard g-, h- and i-line photoresists (such as SU-8).**

SP-UV also integrates a secondary yellow LED source coupled with a feedback camera for focusing, inspection and alignment procedure.

Smart Print UV (SP-UV) maskless lithography system uses a Digital Micromirror Device (DMD) technology. It gives user a straightforward way to move from the design directly to the patterned sample without the use of the standard photomask fabrication. **No needs of photomask means more flexibility, and faster overall fabrication time.**



Quick quick-release objective technology gives user access to four different writing resolution to combine writing precision and speed. **The objective range has been carefully selected with a large working distance (up to 3 cm) to make SP-UV compatible with non-standard substrates (non-flat, flexible, thick).**

System	Standard	Advanced
Light source	Exposure : 385nm; alignment : 590nm	
Minimum feature size	1.5µm	
Stitching precision	2µm	<1µm
Alignment accuracy (for 1cm² printed area)	2µm	1µm
Maximum exposure area	70 x 70 mm²	118 x 118 mm²
Substrate size	Up to 4"	Up to 5"
Writing speed (6µm resolution)	77 mm²/min	220 mm²/min
System dimensions	W:52cm, D:52cm, H:69cm	

Objectives	1x	2.5x	5x	10x
Writing fields (mm)	10.56 x 5.94	4.2 x 2.4	2.1 x 1.2	1.06 x 0.59
Smallest features (µm)	15	6	3	1.5