

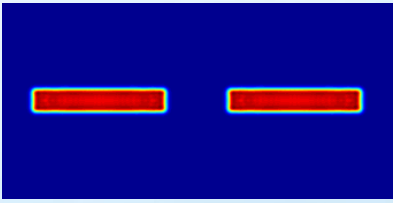
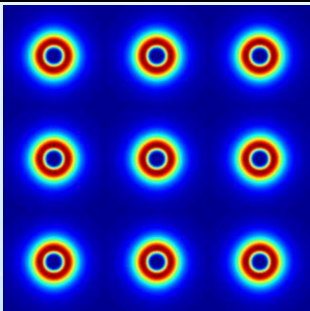
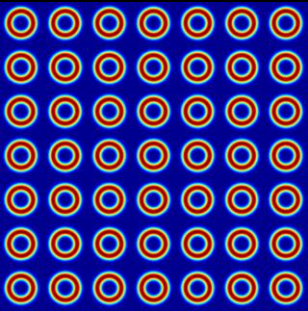
### DOEs functionalities combinations – splitting & shaping

Many applications require both splitting and shaping of the incoming beam.

These combinations are useful for parallel processing applications to increase throughput and shorten process time.

While it is impossible to achieve these combinations by refractive optics, Holo/Or's DOE can achieve both splitting and shaping actions in a single component.

By doing so, one can generate some interesting patterns. For example:

<u>Top-Hat + Multi-Spot 1x2:</u>	<u>Vortex Lens + Multi-Spot 3x3:</u>	<u>Diffractive Axicon + Multi-Spot 7x7:</u>
		

#### Advantages of this solution:

1. Single, thin element (standard diameter -  $\varnothing$ 25.4mm, thickness - 3mm)
2. Simple mechanical integration
3. High laser damage threshold
4. Can be tailored to specific EFL, beam size, wavelengths, spot size and DOF

Contact us for more information: [holor@holor.co.il](mailto:holor@holor.co.il)