

**NEW!**



41520 Microlens Array.

- True 100% fill factor
- Broad wavelength range; 350 to 2500 nm
- Variety of standard lenses
- Inexpensive custom designs

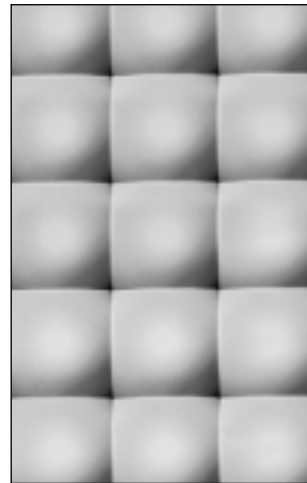
Oriel strives to furnish our customers with the latest in photonics technology, both modern instruments and innovative optical components. Our **new** Microlens Arrays fall into the second category. The lenses listed on this page can be used in a wide variety of applications; for example:

- Beam homogenizing
- Fiber coupling
- Brightening of miniature displays
- Efficiency improvements in focal plane arrays

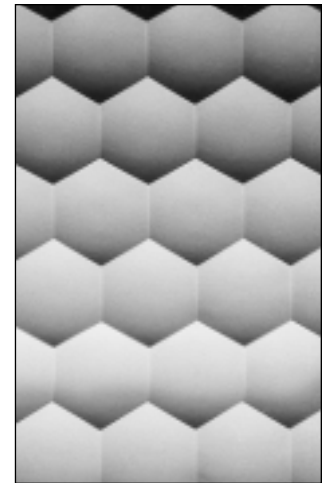
Each microlens array comes centered on a 1 inch (25.4 mm) diameter glass substrate. Here we offer a variety of standard products for experimentation or development, plus we can provide economical custom pieces in larger quantities. Please call an Applications Engineer to discuss your particular specifications.

**Table 1 Index of Refraction of Lens Material**

Wavelength	Index of Refraction (n)
589 nm	1.564
632.8 nm	1.558
1.06 $\mu$ m	1.546
1.3 $\mu$ m	1.542
1.55 $\mu$ m	1.540



Square Pattern Lens Array.



Hexagonal Pattern Lens Array.

## SQUARE OR HEXAGONAL

We offer two array patterns, in various array sizes. The photographs above show a close-up of the two patterns.

## MOUNTING

These lens arrays mount in any 1.0 inch (25.4 mm) diameter lens mount; see pages 18-17 to 18-23 for optic holders

## SPECIFICATIONS

Substrate diameter:	1 inch (25.4 mm)
Substrate thickness:	0.12 inches (3 mm)
Substrate material:	BK-7 glass
Lens material:	Optical epoxy, UV cured
Transmittance:	>90% 350 nm to 2500 nm
Operating temperature:	-45 to 200 °C

## ORDERING INFORMATION

Lens Format	Center To Center Spacing ( $\mu$ m)	Focal Length @589 nm ( $\mu$ m)	Array Size (Elements)	Model No.	Price (\$)
Square	24	48	32 x 32	<b>41520</b>	<b>\$ 397.00</b>
	50	100	200 x 200	<b>41521</b>	<b>\$ 397.00</b>
	50	200	200 x 200	<b>41522</b>	<b>\$ 397.00</b>
	120	360	64 x 64	<b>41523</b>	<b>\$ 397.00</b>
	120	720	64 x 64	<b>41524</b>	<b>\$ 397.00</b>
	200	600	50 x 50	<b>41525</b>	<b>\$ 397.00</b>
Hexagonal	50	150	50 x 50	<b>41526</b>	<b>\$ 397.00</b>
	100	200	20 x 20	<b>41527</b>	<b>\$ 397.00</b>
	100	400	20 x 20	<b>41528</b>	<b>\$ 397.00</b>
	200	500	50 x 50	<b>41529</b>	<b>\$ 397.00</b>
	200	1000	50 x 50	<b>41530</b>	<b>\$ 397.00</b>