

## **LOW DISTORTION/HIGH PERFORMANCE MACRO AND INFINITE CONJUGATE LENSES**

Opto Engineering manufactures lenses for OEM applications: these lenses typically show very low distortion or can be specifically designed to work as MACRO.

Below you can find a list of some disclosed OEM lenses we can provide you with any possible customization of the mechanical interface for medium-large series production or special applications.

<b>Focal Length (mm)</b>	<b>F/#</b>	<b>Range</b>	<b>W.D. (mm)</b>	<b>Object FOV (L x H)</b>	<b>Image FOV (L x H)</b>	<b>Distortion</b>	<b>Back focal (mm)</b>
4,7	6	VIS-NIR	80..∞	69° x 54°	1/2"	< 1,5%	4,5
6,0	2,5	VIS-NIR	100..∞	44° x 33°	1/3"	< 1%	5
7,8	6	VIS-NIR	150..∞	45° x 34°	1/2"	< 0,5%	8
11	4	VIS-NIR	70..∞	32° x 24°	1/2"	< 1%	5
13	1,8	VIS-NIR	200..∞	21° x 7,9°	1/3"	< 1%	5
16	6	VIS-NIR	300..∞	22° x 17°	1/2"	< 0,2%	10
17	1,9	VIS-NIR	300..∞	24° x 18°	1/2"	< 1%	7
23	6	VIS-NIR	350..∞	16° x 12°	1/2"	< 0,2%	15
32	4	VIS-NIR	400..∞	d=49°	d=29 mm	< 0,2%	35
101	6	VIS-NIR	900..∞	d=38°	d=70 mm	< 0,2%	69

Typical MTF is better than 50% @ 50 lp/mm and better than 25% at 75 lp/mm.