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Rogonar
Rogonar-S
Rodagon
Apo-Rodagon-N
Rodagon-WA
Apo-Rodagon-D

Accessories: Modular-Focus

Lenses for Enlarging, CCD Photos and Video

Apo-Rodagon-D

Apo-Rodagon-D lenses are designed for the highest possible imaging quality for close-ups at just those scales around 1:1 where even the best enlarging lenses for larger scales begin to show their weak spots.

Thus their typical applications are transparency duplication, the preparation of internegatives and – together with the Modular-Focus helical mount and the matching camera adapters – macro photography. Furthermore, as well as for photography, they can also be used as high resolving optical systems for premium scanners.

The 6 elements, apochromatically corrected lenses feature high contrast and sharpness right up to the picture corners with virtually no color fringes. Distortion is corrected almost to zero and cannot be seen even in critical subjects with straight-line structures parallel with the edges of the frame.

The optimum working aperture is between f/5.6 and f/8. This is worth mentioning because the effective aperture of a lens focused for a scale of about 1:1 is approximately two f-stops smaller than the nominal aperture and therefore stopping down to smaller apertures than nominal f/8 would result in visible blur because of diffraction. All three models are fitted with click-stop aperture rings which can be disabled and with pre-setting rings.

Apo-Rodagon-D 1x	Recommended scale range	Maximum film format
75 mm f/4	0.8× - 1.2×	6×6 cm
Apo-Rodagon-D 2x		
75 mm f/4.5	1.2× - 2.5×	6×7 cm
Apo-Rodagon-D		
120 mm f/5.6	0.5× - 3×	4×5 inch

The given scale ranges refer to projection; when the lenses are used as taking lenses the respective reciprocal values apply



Data sheets

Formats, dimensions, recommended scales features

Performance data

Apo-Rodagon-D: duplication and macro photography with practically no loss in definition and brilliance

Apo-Rodagon-D

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Technical data

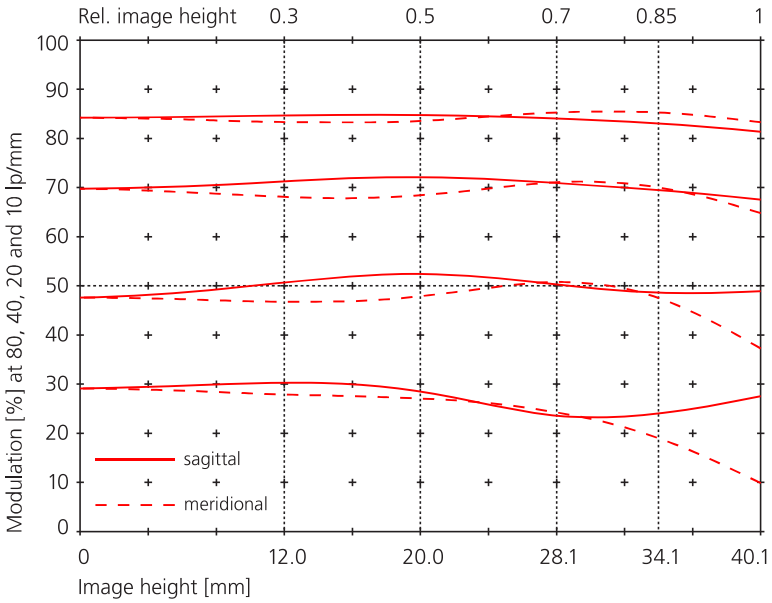
Lens	Maximum film format	Scale range	Smallest aperture	Pre-selection aperture	Click-stop disable	Filter thread	Flange focal length [1]	Overall length	Max. diameter	Screw thread	Flange to rear edge
75 mm f/4	6×6 cm	0.8-1.2×	22	•	•	M 40.5×0.5	136.7 mm	53.0 mm	50.0 mm	M 39×1/26"	18.7 mm
75 mm f/4.5	6×7 cm	1.2-2.5×	22	•	•	M 40.5×0.5	109.4 mm	43.0 mm	50.0 mm	M 39×1/26"	12.5 mm
120 mm f/5.6	4×5 inch	0.5-3×	32	•	•	M 40.5×0.5	172.9 mm	43.4 mm	50.0 mm	M 39×1/26"	12.7 mm

[1]) Flange focal length for Apo-Rodagon-D 1× 75 mm f/4 at scale 1:1, for 2x 75 mm f/4.5 and for 120 mm f/5.6 at scale 2×

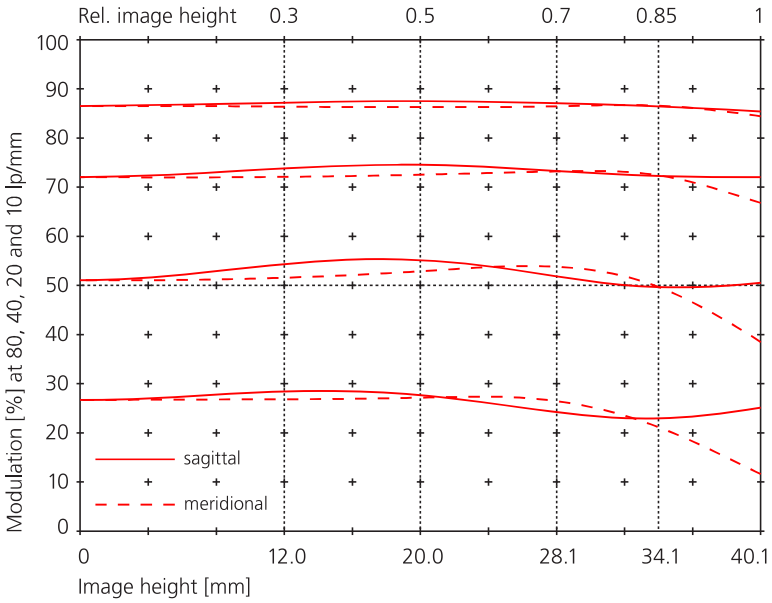
Apo-Rodagon-D 75 mm f/4

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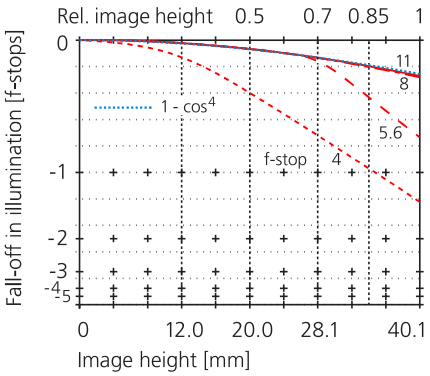
Modulation transfer function Scale 1x f-stop 4



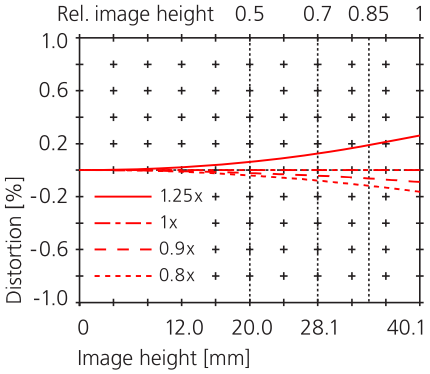
Modulation transfer function Scale 1x f-stop 5.6



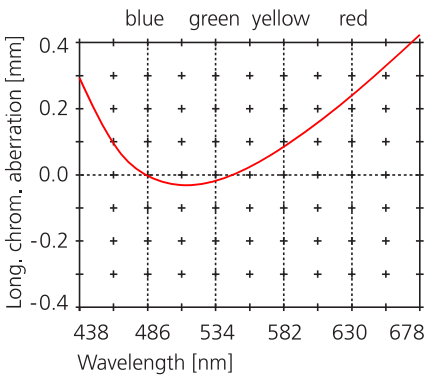
Fall-off in illumination Scale 1x



Distortion Scale 1,25x ... 0.8x



Long. chrom. aberration Scale 1x



All spatial frequencies [line pairs/mm] and image heights [mm] are related to the film side, all scales are related to the print side

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