

No links to other lenses

Lenses for Analog Professional Photography

Apo-Sironar-N

The Apo-Sironar-N is the all-round lens for the professional photographer. Typical applications are product shots of every kind, industrial subjects, landscape and city photography.

The Apo-Sironar-N equally provides an ideal longer focus lens with smaller formats. Monorail view cameras permit almost unlimited extension (especially with extension bellows). As a result optically problematic tele lens designs whose Barlow group tends to produce color fringes are no longer needed; their short back focal length only provides advantages for cameras without a bellows for focusing.

The six-element Apo-Sironar-N bears the "Apo" designation without restriction despite its very advantageous price. The field angle is 72°. The image circle diameter exceeds the diagonal of the recommended format by around 45 %; this gives the photographer considerable edge quality together with abundant shift and swing or tilt possibilities.



Data sheets

► [Formats, dimensions, shutter data, image circles, movement ranges](#)

► [Performance data](#)

Apo-Sironar-N	Max. recommended film format
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150 mm f/5.6	9×12 cm / 4×5 in.
210 mm f/5.6	13×18 cm / 5×7 in.

**Apo-Sironar-N: world famous as
the photographer's powerfull "work horse"**

Apo-Sironar-N

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Formats, shutter sizes, dimensions, weight

Lens	Max. recommended film format	Shutter size	Push-on mount Ø	Filter thread	Rear barrel Ø	Flange focal length 1)	Overall length	Weight w/Copal
150 mm f/5.6	9×12 cm / 4×5 in.	0	51 mm	M 49 × 0.75	42.0 mm	142.0 mm	51.0 mm	220 g
210 mm f/5.6	13×18 cm / 5×7 in.	1	70 mm	M 67 × 0.75	60.0 mm	200.0 mm	66.0 mm	440 g

1) With Copal shutter for scale 1:∞

Shutter data

Shutter type and size	Shutter speeds range	Manual cocking	Self cocking	Mechanical	Electronic	x-synchronized	Smallest f-stop increments	Screw thread	Lens board opening	Lens board thickness	Accessories required
Copal 0	B, T, 1/500 s ... 1 s	•	•	•	•	•		M 32.5 × 0.5	34.8 mm	1.5 ... 4.0 mm	
Copal 1	B, T, 1/400 s ... 1 s	•	•	•	•	•		M 39 × 0.75	41.8 mm	1.5 ... 3.0 mm	
Copal Press 0	B, 1/125 s ... 1 s		•	•	•	•		M 32.5 × 0.5	34.8 mm	1.5 ... 3.0 mm	
Copal Press 1	B, 1/125 s ... 1 s		•	•	•	•		M 39 × 0.75	41.8 mm	1.5 ... 2.0 mm	
Rollei Electron. 0	B, 1/500 s ... 30 s				•	•	1/10	M 39 × 0.75	41.8 mm	1.5 ... 3.0 mm	Control Unit
Rollei Electron. 1	B, 1/300 s ... 30 s				•	•	1/10	M 39 × 0.75	41.8 mm	1.5 ... 3.0 mm	Control Unit

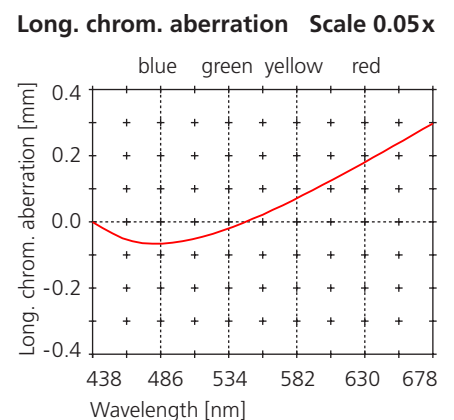
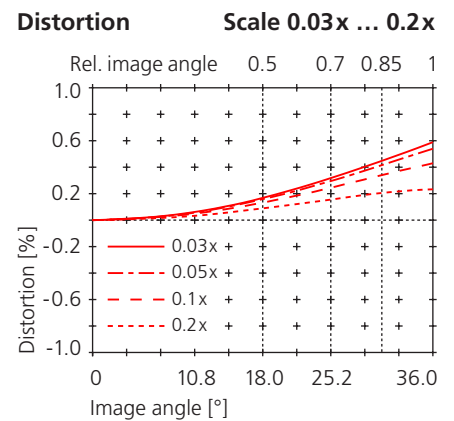
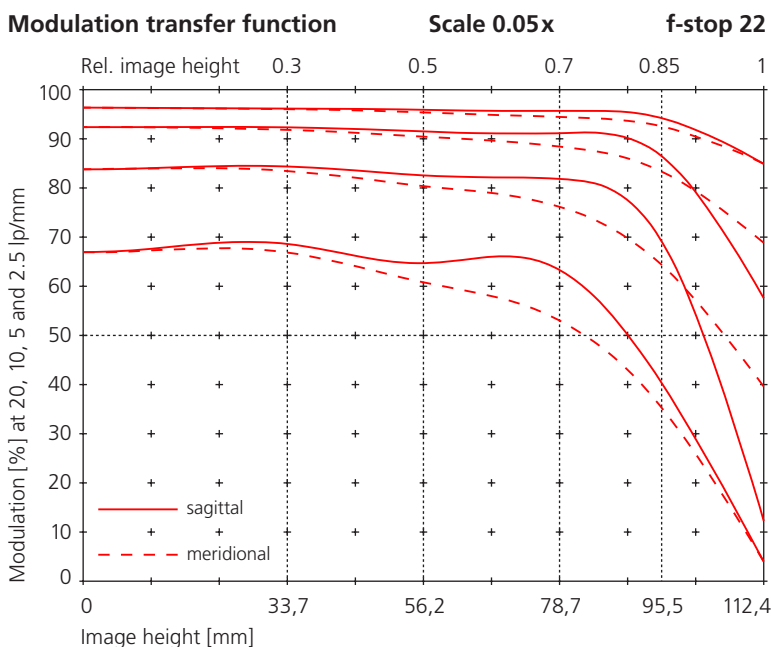
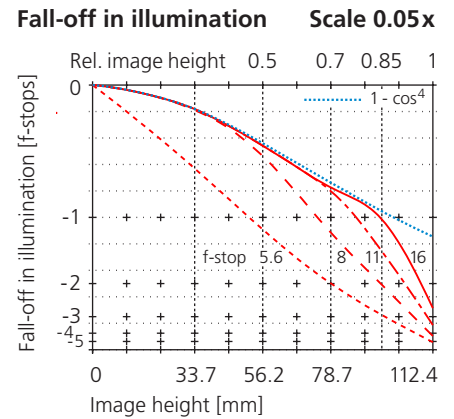
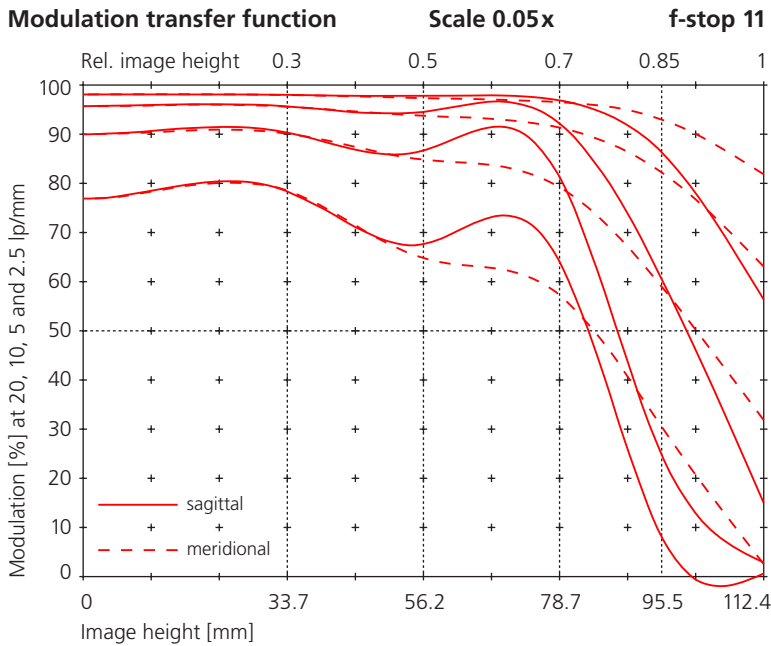
Working apertures, image angles, image circles and movement ranges

Lens	Image scale	Working f-stop	Image angle	Image circle diameter	Movement range [mm] 2) vertical/horizontal (landscape format)					
					6×7 cm	6×9 cm	6×12 cm	4×5 in.	5×7 in.	8×10 in.
150 mm f/5.6	1:∞	16-22	75°	231 mm	73 / 69	69 / 59	63 / 46	40 / 36	4 / 3	
210 mm f/5.6	1:∞	22-32	75°	316 mm	119 / 114	116 / 104	111 / 91	90 / 83	64 / 53	

2) These values apply to the recommended working aperture at the given scale; with increasing scale image circle and movement ranges increase

Apo-Sironar-N 150 mm f/5.6

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