SUPER-ANGULON

The SCHNEIDER SUPER ANGULON is a special purpose ultra wide angle taking lens for medium and large format photography. The SUPER ANGULONS are available in an unusually wide range of focal lengths from 47mm to 210mm, assuring the right lens for every type of professional application. These high performance lenses are available in two different series, the f:8 and the f:5.6, which provides professional photographers two price categories in suberb ultra wide angle taking lenses.

SUPER ANGULON f:8 series is an almost symmetrical six element, four component design. In conjunction with the use of carefully selected optical glass and the latest design techniques, this series guarantees outstanding performance that will fully satisfy the demanding requirements of modern day photography. Excellent contrast, black/white and color rendition, and resolving power are a matter of record with these lenses. The most outstanding feature of the SUPER ANGULON is its extremely wide coverage, allowing maximum use of the movements provided in advanced view cameras, without any loss of quality. The angle of view of the SUPER ANGULON which, even at full aperture is unusually wide, is an astounding 100° at f:22.

The second series, the SUPER ANGULON f:5.6, calls for a more complex optical system. Its eight element, four component, almost symmetrical design provides a high speed version of the SUPER ANGULON that will surpass the requirements of the exacting professional. A full f stop more, along with an angle of view, at f:22, of 105°, may be decisive for photographing under critical lighting conditions.

Considerable improvement of vignetting by specific correction has favorably affected and expanded the application possibilities of the SUPER ANGULON 1:5.6. Needless to say, the SCHNEIDER SUPER ANGULON f:5.6 ultra wide angle taking lens is capable of even higher performance than that of its companion series, the SUPER ANGULON f:8. Conclusively – the professional photographer will find the SUPER ANGULON f:5.6 an ideal lens for most critical applications.

Schneider

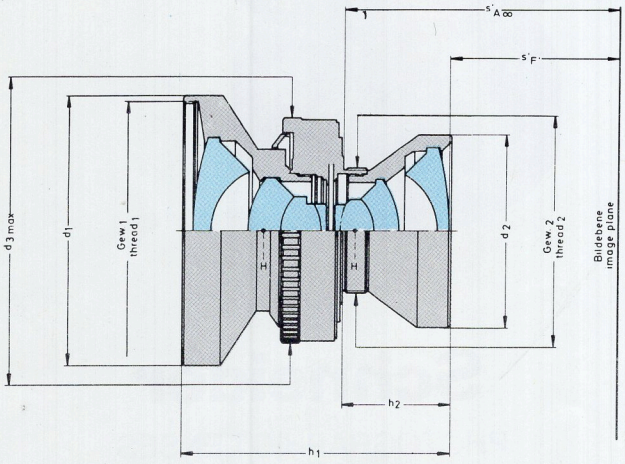
PHOTOGRAPHIC LENSES

SUPER-ANGULON 1:5,6

focal lengths and formats

Focal length (mm)	47	65	75	90
Relative aperture	1:5.6	1:5.6	1:5.6	1:5.6
Angle of view (in degrees) full aperture	92	92	92	92
Image circle diameter (mm) full aperture	98	135	156	187
Angle of view (in degrees) at f:22	105	105	105	105
Image circle diameter (mm) at f:22	123	170	198	235
Recommended format size in mm	60 × 60	65 × 90	90 × 120	90 × 120
Format diagonal in mm	80.6	99.6	141.0	141.0
Recommended format size in inches	2¼ × 2¼	2½ × 3½	4 × 5	4 × 5
Format diagonal in inches	(3.17)	(3.84)	(6.05)	(6.05)
Maximum format size in mm	65 × 90	90 × 120	90 × 120	130 × 180
Format diagonal in mm	99.6	141.0	141.0	210.1
Maximum format size in inches	2½ × 3½	4 × 5	4 × 5	5 × 7
Format diagonal in inches	(3.84)	(6.05)	(6.05)	(8.22)
Accessory thread ∅ (mm)	49 ESW	67 EW	67 EW	82 EW
Schneider gelatin filter holder *	II	II	II	III
Intermediate ring (for filter holder)*	II a	II c	II c	III a
Schneider Center Filters *	II	III	III	IV

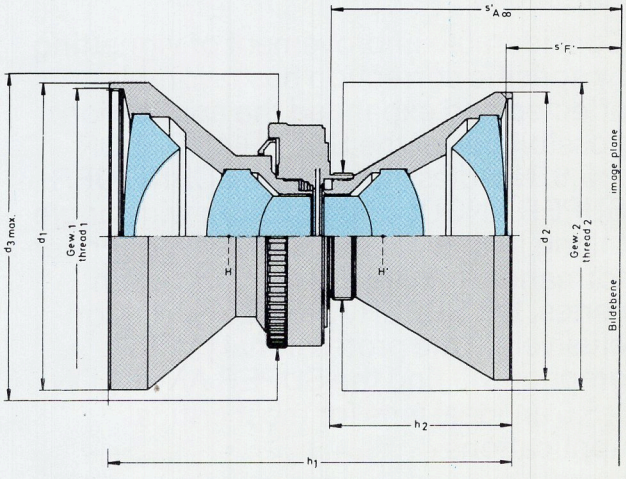
* Request accessory brochure



SUPER-ANGULON 1:8

focal lengths and formats

65	75	90	121	165	210
1:8	1:8	1:8	1:8	1:8	1:8
92	92	92	92	92	92
133.4	156.4	187.0	250.6	341.7	418.0
100	100	100	100	100	100
153.5	180.0	215.2	288.4	393.3	498.2
65 × 90	90 × 120	90 × 120	130 × 180	180 × 240	240 × 300
99.6	141.0	141.0	210.1	287.4	370.1
2½ × 3½	4 × 5	4 × 5	5 × 7	8 × 10	10 × 12
(3.84)	(6.05)	(6.05)	(8.22)	(12.30)	(15.10)
90 × 120	90 × 120	130 × 180	180 × 240	240 × 300	300 × 400
141.0	141.0	210.1	287.4	370.4	486.0
4 × 5	4 × 5	5 × 7	5 × 7	10 × 12	10 × 14
(6.05)	(6.05)	(8.22)	(8.22)	(15.10)	(16.69)
49 ESW	49 ESW	67 EW	77 EW	105 EW	127 EW
II	II	II	II	III	III
II a	II a	II c		III d	
I	II	III a			



SUPER-ANGULON 1 : 5,6

camera movements as a function of format

Lens displacements in mm at f : 5.6 or f : 8, with lens focused at infinity. Figures in brackets = actual format size (mm)

Focal length (mm)	47	65	75	90
60 × 60 ◆ / 2¼″ × 2¼″ ◆ (57 × 57)	11.4 / 11.4	32.7 / 32.7		
„Ideal" format ◆ (56 × 72) ◆	5.2 / 4.2	29.1 / 25.4	41.2 / 36.8	
2¼″ × 3¼″ ◆ (51 × 77) ◆	4.8 / 3.3	29.9 / 24.0	42.3 / 35.2	
2½″ × 3½″ ◆ (56 × 80) ◆		26.4 / 21.4	39.0 / 32.8	56.5 / 49.2
65 × 90 ◆ (58 × 81) ◆		25.0 / 20.5	37.7 / 31.9	55.3 / 48.4
90 × 120 ◆ (83 × 114) ◆			11.7 / 9.0	32.6 / 26.8
4″ × 5″ ◆ (96 × 120) ◆			1.8 / 1.5	23.7 / 20.2
5″ × 7″ ◆ (121 × 170) ◆				
130 × 180 ◆ (122 × 171) ◆				
180 × 240 ◆ (171 × 231) ◆				
8″ × 10″ ◆ (194 × 245) ◆				
240 × 300 ◆ (230 × 290) ◆				
10″ × 12″ ◆ (245 × 295) ◆				

Lens displacements in mm at f : 22, with lens focused at infinity. Figures in brackets = actual format size (mm)

60 × 60 ◆ / 2¼″ × 2¼″ ◆ (57 × 57)	26.0 / 26.0			
"Ideal" format ◆ (56 × 72) ◆	21.9 / 18.8	49.0 / 44.3		
2¼″ × 3¼″ ◆ (51 × 77) ◆	22.5 / 17.5	50.3 / 41.1		
2½″ × 3½″ ◆ (56 × 80) ◆	18.7 / 14.8	47.0 / 40.3	62.6 / 55.0	
65 × 90 ◆ (58 × 81) ◆	17.3 / 13.7	45.7 / 39.4	61.3 / 54.2	
90 × 120 ◆ (83 × 114) ◆		21.6 / 17.2	39.4 / 32.9	61.2 / 52.9
4″ × 5″ ◆ (96 × 120) ◆		12.2 / 10.1	30.7 / 26.6	53.0 / 47.2
5″ × 7″ ◆ (121 × 170) ◆				20.6 / 15.7
130 × 180 ◆ (122 × 171) ◆				19.6 / 14.9
180 × 240 ◆ (171 × 231) ◆				
8″ × 10″ ◆ (194 × 245) ◆				
240 × 300 ◆ (230 × 290) ◆				
10″ × 12″ ◆ (245 × 295) ◆				
10″ × 14″ ◆ (245 × 346) ◆				
300 × 400 ◆ (290 × 390) ◆				

Tables show maximum possible lens displacements of the different Super Angulon lens series, f : 5.6 & f : 8, at full aperture and stopped down to f : 22 for each focal length.

Starting with a rectangular format in the horizontal position, the vertical displacement is designated by: ◆ , the horizontal displacement is designated by: ◆

SUPER-ANGULON 1 : 8

camera movements as a function of format

65	75	90	121	165	210
28.2 / 24.5					
29.0 / 23.1					
25.4 / 20.5	39.2 / 33.0	56.5 / 49.2			
24.0 / 19.6	37.9 / 32.1	55.3 / 48.4			
	12.0 / 9.3	32.6 / 26.8	70.1 / 61.2		
	2.2 / 1.7	23.7 / 20.2	62.0 / 55.7		
			31.6 / 24.7	87.7 / 74.8	
			30.6 / 23.9	86.9 / 74.1	
				40.4 / 32.4	88.7 / 75.2
				22.1 / 18.1	72.3 / 62.6
					35.5 / 29.5
					25.6 / 21.8

39.8 / 35.5					
40.9 / 33.9					
37.5 / 31.5	52.6 / 45.5	71.9 / 63.9			
36.2 / 30.6	51.4 / 44.7	70.7 / 63.1			
9.9 / 7.6	28.1 / 22.9	49.8 / 42.3	91.0 / 81.1		
	19.1 / 16.1	41.3 / 36.3	83.1 / 76.0		
		5.5 / 4.0	56.0 / 45.9	116.8 / 102.1	
		4.3 / 3.1	55.1 / 45.2	116.1 / 101.4	
			0.8 / 0.6	73.7 / 61.6	135.2 / 118.5
				56.8 / 48.6	119.9 / 106.9
				17.8 / 14.5	87.5 / 76.0
				7.6 / 6.3	78.2 / 69.4
					56.7 / 43.9
					10.0 / 7.5

Tables show that use of a chosen focal length accord to the recommended max. format will be possible only in stopped-down condition without the possibility for considerable displacements.

Table of Technical Data:*

Relative aperture	Focal length in mm: Engraved	Focal length in mm: Effective ± 1%	Nodal point separation HH	Back focus $s'_{F'}$	Accessory thread$_1$	Front mount diameter d_1	Max. mount diameter d_3	Rear mount diameter d_2	Overall length h_1	lens seat-to-lens rear h_2	Mounting thread$_2$	Flange focus at infinity $s'_{A\infty}$	Smallest aperture	Available mounts	Weight in grams	Article number
1:5.6	47	47.5	18.3	32.0	M 49 × 0.75	51	47.5 62	38	51.3	20.2	M 25 × 0.5	51.6	32 22	Compur 00 Prontor Press 00	165 200	10740 10972
1:5.6	65	65.4	25.2	44.3	M 67 × 0.75	70	58.5 62 61 52	50	69	27.6 27.5 27.2 27.6	M 32.5 × 0.5	71.4 71.3 71.0 71.4	45 32 45	Compur 0 Prontor Press 0 Copal 0 Barrel 0	320 305 323 290	10718 10973 11104 11058
1:5.6	75	75.4	29.1	51.2	M 67 × 0.75	70	58.5 75 62 61 52	57.5	77	32.1 30.8 32 31.7 32.1	M 32.5 × 0.5 M 39 × 0.75 M 32.5 × 0.5 M 32.5 × 0.5 M 32.5 × 0.5	82.8 81.7 82.7 82.4 82.8	45	Compur 0 Compur Elect. 1 Prontor Press 0 Copal 0 Barrel 0	370 467 355 371 378	10719 11755 10974 11105 11059
1:5.6	90	90.5	35.2	61.5	M 82 × 0.75	85	58.5 75 62 61 52	70	93.5	40.1 38.8 40 39.7 40.1	M 32.5 × 0.5 M 39 × 0.75 M 32.5 × 0.5 M 32.5 × 0.5 M 32.5 × 0.5	100.6 99.6 100.5 100.2 100.6	45	Compur 0 Compur Elect. 1 Prontor Press 0 Copal 0 Barrel 0	570 663 548 570 545	10720 11757 10975 11106 11060
1:8	65	64.4	17.2	47.2	M 49 × 0.75	51	47.5 62 61 52	42	56.8	22.9 23.2 22.8 22.9	M 32.5 × 0.5	69.7 70.0 69.7 69.7	45	Compur 0 Prontor Press 0 Copal 0 Barrel 0	345 335 352 330	13499 13500 13433 10982
1:8	75	76.5	25.0	55.5	M 49 × 0.75	51	58.5 75 62 61 52	42	67	28.1 26.8 28.0 27.7 28.1	M 32.5 × 0.5 M 39 × 0.75 M 32.5 × 0.5 M 32.5 × 0.5 M 32.5 × 0.5	82.7 81.6 82.6 82.3 82.7	45	Compur 0 Compur Elect. 1 Prontor Press 0 Copal 0 Barrel 0	312 405 295 312 290	10452 11749 10930 11108 10983
1:8	90	90.3	29.6	66.3	M 67 × 0.75	70	58.5 75 62 61 52	57	78	33.5 32.3 33.5 33.2 33.6	M 32,5 × 0.5 M 39 × 0.75 M 32,5 × 0.5 M 32,5 × 0.5 M 32,5 × 0.5	99.4 98.3 99.3 99.0 99.4	64	Compur 0 Compur Elect. 1 Prontor Press 0 Copal 0 Barrel 0	360 448 347 363 342	10453 11751 10934 11109 10984
1:8	121	121	39.2	88.5	M 77 × 0.75	80	58.5 75 62 61 52	75	104.5	47.2 45.9 47.5 47.5 47.5	M 32,5 × 0.5 M 39 × 0.75 M 32,5 × 0.5 M 32,5 × 0.5 M 32,5 × 0.5	133.9 132.8 134.2 133.5 134.2	64	Compur 0 Compur Elect. 1 Prontor Press 0 Copal 0 Barrel 0	516 600 500 518 485	11286 11753 10455 11985 10985
1:8	165	165	54.8	120.4	M 105 × 1	110	96 96 102 80	100	144	63.3	M 62 × 0.75	180.6	64 64 64 45	Compur 3 Compur Elect. 3 Copal 3 Barrel 3	1600 1610 1550 1370	12824 10792 12825 13497
1:8	210	209	69.5	152,7	M 127 × 1	132	96 96 102 80	125	180	81.3	M 62 × 0.75	230,8	90 90 90 64	Compur 3 Compur Elect. 3 Copal 3 Barrel 3	2430 2440 2380 2190	12955 10793 12956 13498

These specifications are subject to change in whole or part without prior notice.

*The dimensions given here relate to the cross section on page 2.

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