

The SYMMAR-S – with its 6-element, 4-group construction – is the latest development of the world-famous Symmar. The carefully balanced performance, improved image quality and adaptation of mechanical mount and design to today's challenging demands characterize the SYMMAR-S as the superior taking lens for the professional photographer.

Focal length (mm)	100	135	150	180	210	240	300	360
Relative aperture	1:5.6	1:5.6	1:5.6	1:5.6	1:5.6	1:5.6	1:5.6	1:6.8
Angle of view (degrees) at largest aperture	60	60	60	60	60	60	60	60
Image circle $\varnothing$ (mm) at largest aperture	118	156	174	208	242	278	339	405
Angle of view (degrees) at f/22	70	70	70	70	70	70	70	70
Image circle $\varnothing$ (mm) at f/22	143	190	210	252	294	337	411	491
Recommended format size in mm	65 × 90	90 × 120	90 × 120	130 × 180	130 × 180	180 × 240	240 × 300	240 × 300
Format diagonal in mm	99.6	141.0	141.0	210.1	210.1	287.4	370.1	370.1
Recommended format size in inches	2½ × 3½	4 × 5	4 × 5	5 × 7	5 × 7	8 × 10	8 × 10	10 × 12
Format diagonal in mm	97.6	153.7	153.7	208.7	208.7	312.5	312.5	383.5
Accessory thread $\varnothing$ (mm) filter code	40.5 EW	49 ESW	58 ESW	67 EW	77 EW	86 ESW	105 EW	120 EW
Schneider gelatin filter holder*	I	II	II	II	II	III	III	III
Intermediate ring (for filter holder)*		IIa	IIb	IIc		IIIb	IIId	IIIf

Lens displacements in mm, at f/22, at infinity (actual format, mm×mm)	2¼"×3¼" (51×77)	35 28	61 53	72 63					
	Ideal format (56×72)	34 30	60 55	70 65					
	2½"×3½" (56×80)	31 26	58 51	69 61	91 83				
	65×90 (58×81)	30 25	57 50	68 60	90 82				
	90×120 (83×114)		35 29	47 39	71 62	94 84			
	4"×5" (96×120)		26 22	38 33	63 56	86 79	109 102		
	5"×7" (121×170)				33 26	59 49	85 72	127 111	
	130×180 (122×171)				32 25	59 48	84 72	126 111	
	180×240 (171×231)						37 30	84 71	131 115
	8"×10" (194×245)						19 15	68 59	116 103
	240×300 (230×290)							31 25	83 72
	10"×12" (245×295)							21 18	74 65

*Brochure available, on request

SYMMAR-S

also available with Multicoating

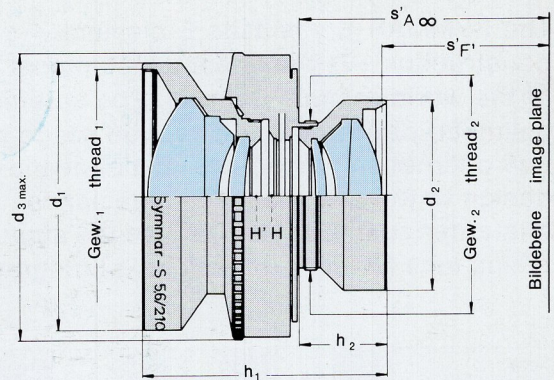


Schneider

PHOTOGRAPHIC TAKING LENSES

SYMMAR-S

The lens drawing with dimensions will assist in the selection of the Schneider SYMMAR-S lens best suited for each particular application. Essential optical and mechanical data are summarized in this table. Data sheets with additional performance and design information can be supplied upon request.



TECHNICAL DATA

Relative aperture	Engraved	Focal length in mm Effective focal length $\pm 1\%$	Nodal point separation HH'	Back focus $s'F'$	Accessory thread θ_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 θ_2	Flange focus $s'A_\infty$	Smallest aperture	Available mounts	Weight in g	Article
1:5.6	100	102.1	-2.1	84.6	M 40.5 $\times$ 0.5	42	58.5	31.5	38.5	13.1	M 32.5 $\times$ 0.5	96.6	1:45	Compur 0	185	12734
							62			13.0		96.5		Prontor Press 0	168	12889
							61			12.7		96.2		Copal 0	185	12890
							52			13.1		96.6		Barrel mount 0	152	12735
1:5.6	135	135.4	-2.6	112.3	M 49 $\times$ 0.75	51	58.5	40.5	47.6	17.6	M 32.5 $\times$ 0.5	128.9	1:45	Compur 0	230	12737
							62			17.5		128.8		Prontor Press 0	210	12891
							61			17.2		128.5		Copal 0	230	12892
							52			17.6		128.9		Barrel mount 0	196	12738
1:5.6	150	150.3	-2.9	125.0	M 58 $\times$ 0.75	60	58.5	40.5	55	19.1	M 32.5 $\times$ 0.5	143.5	1:45	Compur 0	255	12336
							75			17.8	M 39 $\times$ 0.75	142.2		Compur I	246	13432
							75			17.8	M 39 $\times$ 0.75	142.2		Compur Elect. I	343	12337
							62			19.0	M 32.5 $\times$ 0.5	143.4		Prontor Press 0	231	12338
							61			18.7	M 32.5 $\times$ 0.5	143.1		Copal 0	251	12339
							52			19.1	M 32.5 $\times$ 0.5	143.5		Barrel mount 0	217	12340
1:5.6	180	180.0	-3.4	149.5	M 67 $\times$ 0.75	70	75	50	64	22.8	M 39 $\times$ 0.75	171.2	1:45	Compur I	495	12740
							75			22.8		171.2		Compur Elect. I	485	12869
							75			22.9		171.2		Prontor Press I	428	12870
							73			22.8		171.3		Copal I	450	12871
							61			22.8		171.2		Barrel mount I	405	12741
1:5.6	210	209.9	-4.0	174.7	M 77 $\times$ 0.75	80	75	57	73	27.0	M 39 $\times$ 0.75	200.9	1:45	Compur I	590	12743
							75			27.0		200.9		Compur Elect. I	582	12872
							75			27.1		200.9		Prontor Press I	522	12873
							73			27.1		201.0		Copal I	547	12874
							61			27.0		200.9		Barrel mount I	478	12744
1:5.6	240	240.8	-4.5	200.4	M 86 $\times$ 1	90	96	65	83.5	29.6	M 62 $\times$ 0.75	229	1:45	Compur 3	950	12746
							96							Compur Elect. 3	987	12875
							102							Copal 3	895	12877
							78							Barrel mount 3	725	12747
1:5.6	300	293.8	-5.4	244.1	M 105 $\times$ 1	110	96	80	101.5	36.8	M 62 $\times$ 0.75	280	1:64	Compur 3	1215	12749
							96						1:64	Compur Elect. 3	1255	12878
							102						1:64	Copal 3	1161	12880
							78						1:45	Barrel mount 3	970	12750
1:6.8	360	350.5	-5.5	292.5	M 120 $\times$ 1	125	96	92	112	44.6	M 62 $\times$ 0.75	335.8	1:64	Compur 3	1546	12752
							96						1:64	Compur Elect. 3	1585	12881
							102						1:64	Copal 3	1490	12883
							78						1:45	Barrel mount 3	1320	12753

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