

# XENAR · XENOTAR

The SCHNEIDER lenses of the XENAR and XENOTAR series are four-element, three-component and five-element, four-component designs, respectively. Throughout the world, these Schneider Optics are standard lenses of professional photographers engaged in news reporting, architectural and fashion photography.

The XENAR is a moderately priced universal lens renowned for its natural color rendition and brilliance which, among other things, is due to the fact that its four-element design involves a minimum number of glass-to-air surfaces.

The excellent performance of the XENAR is based on a carefully balanced formula. This is why many photographers have come to use XENAR standard lenses for each of the different formats they require.

With an unusually high speed aperture for the formats concerned, the f/2,8 XENOTAR is among the fastest lenses available and thus is particularly well suited for fashion and stage photography, news reporting and aerial photography. The combination of high aperture with excellent contrast rendition and high resolving power makes the XENOTAR a top-notch universal lens.

	XENAR					XENOTAR			
Focal length (mm)	100	150	210	240	360	80	100	150	
Relative aperture	1:3.5	1:4.5	1:4.5	1:4.5	1:4.5	1:2.8	1:2.8	1:2.8	
Angle of view (degrees) at largest aperture	53	53	53	53	53	59	53	53	
Image circle Ø (mm) at largest aperture	101	149	211	239	357	91	101	149	
Angle of view (degrees) at f/22	60	62	62	62	62	63	60	56	
Image circle Ø (mm) at f/22	117	180	255	288	431	98	117	160	
Recommended format size in mm	65 × 90	90 × 120	130 × 180	130 × 180	240 × 300	56 × 72	65 × 90	90 × 120	
Format diagonal in mm	99.6	141.0	210.1	210.1	370.4	91.2	99.6	141.0	
Recommended format size in inches	2½ × 3½	4 × 5	5 × 7	5 × 7	8 × 10	2¼ × 3¼	2½ × 3½	4 × 5	
Format diagonal in mm	97.6	153.7	208.7	208.7	312.5	92.4	97.6	153.7	
Accessory thread Ø (mm) filter code	40.5 E	40.5 E	58 ES	67 E	102 E	49 ES	58 ES	77 E	
Schneider gelatin filter holder*	I	I	II	II	III	II	II	II	
Intermediate ring (for filter holder)*			II b	II c	III c	II a	II b		
Lens displacements in mm, at f/22, at infinity (actual format, mm × mm)	2¼" × 3¼" (51 × 77)	◆ 19 ◆ 14	56 48				5 3	19 14	45 37
	Ideal format (56 × 72)	◆ 18 ◆ 15	54 50				5 4	18 15	43 39
	2½" × 3½" (56 × 80)	◆ 15 ◆ 11	53 46	93 84				15 11	41 35
	65 × 90 (58 × 81)	◆ 13 ◆ 10	51 45	92 84				13 10	40 34
	90 × 120 (83 × 114)	◆ ◆	28 23	73 64	91 81				15 11
	4" × 5" (96 × 120)	◆ ◆	19 16	65 58	83 76				5 4
	5" × 7" (121 × 170)	◆		35 27	55 45	138 122			
	130 × 180 (122 × 171)	◆ ◆		34 26	55 45	137 121			
	180 × 240 (171 × 231)	◆ ◆			0,5 0,4	96 82			
	8" × 10" (194 × 245)	◆ ◆				80 70			
	240 × 300 (230 × 290)	◆ ◆				44 37			
	10" × 12" (245 × 295)	◆ ◆				35 30			

\* Brochure available, on request

Tables show maximum possible lens displacements of the different Xenar and Xenotar lens series, f: 3.5, f: 4.5 and f: 2.8, 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: ◆.



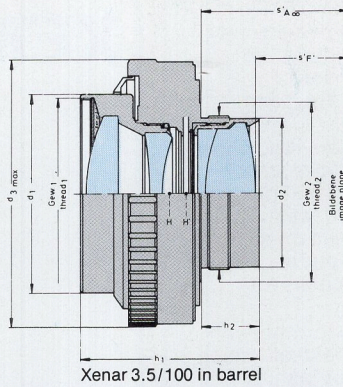
## Schneider

PHOTOGRAPHIC TAKING LENSES

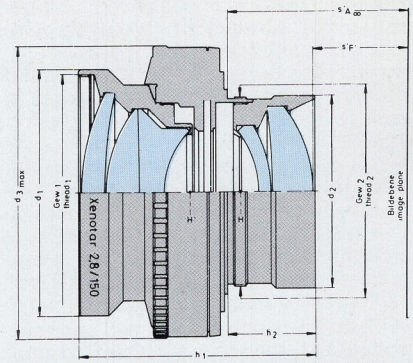


# XENAR · XENOTAR

The lens drawing with dimensions will assist in the selection of the Schneider XENAR and XENOTAR lens best suited for each particular application. Essential optical and mechanical data are summarized in this table.



Xenar 3.5/100 in barrel



Xenotar 2.8/150 in Compur-electronic 3 shutter

## XENAR

## Technical data

Relative aperture	Focal length in mm		Nodal point separation HH'	Back focus s'F'	Accessory thread 1	Front mount diameter d <sub>1</sub>	Front mount diameter d <sub>1</sub>			Lens seat to lens rear h <sub>2</sub>	Mounting thread 2	Flange focus s'A <sub>∞</sub>	Smallest aperture	Available mounts	Weight in g	Article						
	Engraved	Effective focal length ± 1%					Max. mount diameter d <sub>3</sub>	Rear mount diameter d <sub>2</sub>	Overall length h <sub>1</sub>													
1:3.5	100	101.2	1.9	84.5	M40.5×0.5	42	58.5	31.8	37.7	12.3	M32.5×0.5	96.2	32	Compur 0	215	10176						
							62										200	10812				
							61												220	11082		
							52														190	10177
1:4.5	150	149.8	1.5	131.4	M40.5×0.5	42	75	37.5	38.4	12.1	M39×0.75	142.4	45	Compur 1	290	10185						
							75										280	11457				
							75												220	10817		
							73														242	11087
							61															
1:4.5	210	211.8	2.1	186.0	M58×0.75	60	96	58	52.5	17.2	M62×0.75	200.5	45	Compur 3	746	12382						
							96										740	10822				
							102												667	11088		
							66.5														500	10194
1:4.5	240	239.4	3.6	213.2	M67×0.75	70	131	70	59.0	21.8	M92×0.75	222.0	45	Comp. Elect. 5	1275	10960						
							×157										76.7	29 1/3 Gg.	228.5	32	Barrel mount IV/10/2	520
1:4.5	360	358.5	5.4	319.0	M102×1.0	105	116.5	105-	80.0	27.5	M108.5×1	344.5	32	Barrel mount 36	1125	10199						

## XENOTAR

Relative aperture	Focal length in mm		Nodal point separation HH'	Back focus s'F'	Accessory thread 1	Front mount diameter d <sub>1</sub>	Front mount diameter d <sub>1</sub>			Lens seat to lens rear h <sub>2</sub>	Mounting thread 2	Flange focus s'A <sub>∞</sub>	Smallest aperture	Available mounts	Weight in g	Article								
	Engraved	Effective focal length ± 1%					Max. mount diameter d <sub>3</sub>	Rear mount diameter d <sub>2</sub>	Overall length h <sub>1</sub>															
1:2.8	80	80.3	-6.3	60.0	M49×0.75	51	75	38	40.4	14.1	M39×0.75	73.5	22	Compur 1	295	10091								
							75										290	11453						
							75												228	10799				
							73														250	11079		
							61																207	10092
							61																	
1:2.8	100	101.2	-8.0	75.5	M58×0.75	60	75	48	49.2	21.1	M39×0.75	95.3	32	Compur 1	405	10093								
							75										400	11454						
							75												237	10802				
							73														360	11080		
							61																217	10094
1:2.8	150	149.5	-15.2	108.0	M77×0.75	80	96	63	76.7	28.1	M62×0.75	135.7	32	Compur 3	1065	12380								
							96										1080	10805						
							102												1010	11956				
							55.5														775	10099		

These specifications are subject to change in whole or part prior notice.

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