



PHOTOGRAPHIC LENSES and ACCESSORIES

Price List No. 13
Effective May 1, 1939

Series	Focal Length		For Cameras	In Standard Mount N	In Sunk Mount B	In Focusing Mount A	In Compur Shutter	Mount Diameter mm.
	cm.	in.						
Biotar F/1.4	2	$\frac{3}{4}$	$\frac{1}{4} \times \frac{1}{2}$ "	\$83.00	.....	\$94.00	.....	19.2
	2.5	1	$\frac{1}{4} \times \frac{1}{2}$ "	83.00	.....	94.00	.....	27
	4	$1\frac{5}{8}$	$\frac{3}{4} \times 1$ "	115.00	.....	129.00	.....	42
	5	2	$1 \times 1\frac{1}{2}$ "	138.00	.....	152.00	.....	45ik
	7	$2\frac{3}{4}$	$1\frac{5}{8} \times 1\frac{3}{8}$ "	216.00	.....	248.00	.....	60
Biotar F/2	4.25	$1\frac{3}{4}$	$1\frac{3}{16} \times 1\frac{9}{16}$ "	69.00	\$70.00	78.00	\$67.00	32
	8	$3\frac{3}{8}$	$1\frac{1}{2} \times 2\frac{1}{2}$ "	125.00	128.00	139.00	130.00†	51
Tessar F/2.7	1.5	$\frac{5}{8}$	$\frac{1}{4} \times \frac{1}{2}$"	.....	.....	45.00	.....	27
	2.5	1	$\frac{1}{4} \times \frac{1}{2}$ "	40.00	.....	51.00	.....	28.5
	3.5	$1\frac{3}{8}$	$\frac{3}{4} \times 1$ "	47.00	.....	57.00	.....	24
	4	$1\frac{1}{2}$	$\frac{3}{4} \times 1$ "	47.00	.....	57.00	.....	24
	5	2	$\frac{3}{4} \times 1$ "	56.00	.....	65.00	.....	27
Biottessar F/2.8	13.5	$5\frac{1}{4}$	$2\frac{1}{2} \times 3\frac{1}{2}$ "	125.00	134.00	157.00	.....	60
	16.5	$6\frac{1}{2}$	$3\frac{1}{4} \times 4\frac{1}{4}$ "	154.00	166.00	192.00	.....	70
Tessar F/2.8	5	2	$1\frac{3}{16} \times 1\frac{9}{16}$ "	36.00	38.00	46.00	40.00	24
	6	$2\frac{3}{8}$	$1\frac{3}{16} \times 1\frac{9}{16}$ "	36.00	38.00	46.00	40.00	28.5
	7.5	3	$1\frac{3}{4} \times 2\frac{5}{8}$ "	42.00	44.00	52.00	46.00	37
	8	$3\frac{1}{8}$	$2\frac{1}{4} \times 2\frac{1}{4}$ "	46.00	48.00	56.00	53.00	37
Kmo Tessar F/3.5	2.8	$1\frac{1}{8}$	$\frac{3}{4} \times 1$ "	32.00	.....	.....	.....	19.2
	3.5	$1\frac{3}{8}$	$\frac{3}{4} \times 1$ "	32.00	.....	42.00	.....	19.2
	5	2	$\frac{3}{4} \times 1$ "	32.00	.....	42.00	.....	27
Tessar F/3.5	5	2	$1\frac{3}{16} \times 1\frac{9}{16}$ "	28.00	30.00	38.00	33.00	24
	6	$2\frac{3}{8}$	$1\frac{3}{16} \times 1\frac{9}{16}$ "	28.00	30.00	38.00	33.00	28.5
	7.5	3	$1\frac{3}{4} \times 2\frac{5}{8}$ "	30.00	34.00	40.00	36.00	32
	8	$3\frac{1}{8}$	$1\frac{3}{4} \times 2\frac{5}{8}$ "	34.00	36.00	44.00	41.00	37
	10.5	$4\frac{1}{8}$	$2\frac{1}{2} \times 3\frac{1}{2}$ "	46.00	49.00	60.00	54.00	37
	12	$4\frac{3}{4}$	$2\frac{1}{2} \times 3\frac{1}{2}$ "	56.00	60.00	70.00	63.00	42
	13.5	$5\frac{1}{4}$	$3\frac{1}{4} \times 4\frac{1}{4}$ "	64.00	70.00	86.00	80.00	51
	15	6	4×5 "	72.00	83.00	99.00	90.00	51
	16.5	$6\frac{1}{2}$	4×6 "	100.00	109.00	132.00	114.00*	60
	21	$8\frac{1}{4}$	5×7 "	166.00	179.99	205.00	177.00*	70
	25	10	5×8 "	237.00	251.00	296.00	289.00*	84.5
	30	12	$6\frac{1}{2} \times 8\frac{1}{2}$ "	348.00	.....	.....	.....	106.5
Tessar F/4.5	4	$1\frac{1}{2}$	$1\frac{1}{8} \times 1\frac{1}{4}$ "	28.00	.....	.....	.....	20
	5	2	$1\frac{1}{4} \times 1\frac{1}{2}$ "	26.00	28.00	36.00	31.00	24
	5.5	$2\frac{1}{4}$	$1\frac{3}{4} \times 1\frac{3}{4}$ "	26.00	28.00	36.00	31.00	24
	6.5	$2\frac{1}{2}$	$1\frac{3}{4} \times 2$ "	26.00	28.00	36.00	31.00	24
	7.5	3	$2\frac{3}{8} \times 2\frac{3}{8}$ "	26.00	28.00	36.00	31.00	24
	9	$3\frac{1}{2}$	$2\frac{3}{4} \times 3\frac{1}{4}$ "	27.00	29.00	36.00	32.00	24
	10.5	$4\frac{1}{8}$	$2\frac{1}{2} \times 3\frac{1}{2}$ "	29.00	31.00	38.00	35.00	32
	11.5	$4\frac{1}{2}$	$2\frac{1}{2} \times 3\frac{1}{2}$ "	31.00	33.00	41.00	37.00	32
	13.5	$5\frac{1}{4}$	$3\frac{1}{4} \times 4\frac{1}{4}$ "	37.00	40.00	51.00	47.00	42
	15	6	4×5 "	42.00	45.00	56.00	52.00	42
	16.5	$6\frac{1}{2}$	4×6 "	49.00	55.00	71.00	67.00†	51
	18	7	$4\frac{3}{4} \times 6\frac{1}{2}$ "	58.00	63.00	79.00	74.00†	51
	21	$8\frac{1}{4}$	5×7 "	71.00	80.00	103.00	90.00*	60
	25	10	5×8 "	115.00	128.00	154.00	156.00*	70
	30	12	$6\frac{1}{2} \times 8\frac{1}{2}$ "	224.00	240.00	292.00	272.00*	84.5
	36	14	$6\frac{1}{2} \times 8\frac{1}{2}$ "	375.00	.....	.....	.....	106.5
	40	16	$6\frac{1}{2} \times 8\frac{1}{2}$ "	468.00	.....	.....	.....	115.5
	50	20	10×12 "	720.00	.....	.....	.....	133.5

Matching lenses for stereoscopic work is \$4.50 for each pair.

† Compur Shutter, old style.

* Compound Shutter.

Series	Focal Length		For Cameras	In Standard Mount N	Cells Only	In Compur Shutter	Mount Diameter mm.
	cm.	in.					
Protar F/12.5	18	7	4 x 5"	\$50.00	\$37.00	\$63.00	37
	22	8 $\frac{3}{4}$	4 x 6"	52.00	40.00	66.00	37
	29	11 $\frac{1}{2}$	5 x 7"	62.00	50.00	79.00	37
	35	14	7 x 9"	74.00	62.00	88.00	42
	41	16	10 x 12"	103.00	86.00	130.00*	57
	48	19	11 x 14"	127.00	110.00	153.00*	57
	59	23	12 x 15"	175.00	159.00	210.00*	69
	69	27	14 x 17"	220.00	200.00	272.00*	84.5

Series	Single Lenses cm.	Comb. Focus cm.	Single Lenses inches	Comb. Focus inches					
Double Protar F/6.3 to F/7.7	18/18	10.5	7 / 7	4	3½ x 2½"	87.00	100.00	37	
	22/18	11.5	8¾ / 7	4½	3¼ x 4¼"	89.00	103.00	37	
	29/18	13	11½ / 7	5	3¼ x 4¼"	99.00	112.00	42	
	22/22	13	8¾ / 8¾	5	3¼ x 4¼"	92.00	105.00	37	
	29/22	14.5	11½ / 8¾	5¾	4 x 5"	102.00	115.00	42	
	35/22	15.5	14 / 8¾	6	4 x 5¾"	114.00	127.00	42	
	29/29	17	11½ / 11½	6¾	4¾ x 6½"	111.00	125.00	42	
	35/29	18.5	14 / 11½	7¾	5 x 7½"	124.00	139.00	42	
	41/29	20	16 / 11½	8	5 x 7½"	153.00	180.00*	57	
	35/35	20.5	14 / 14	8	5 x 7½"	136.00	149.00	42	
	41/35	22	16 / 14	8¾	5 x 8"	165.00	192.00*	57	
	48/35	23.5	19 / 14	9¼	6½ x 8½"	189.00	216.00*	57	
	41/41	24	16 / 16	9½	6½ x 8½"	189.00	216.00*	57	
	48/41	26	19 / 16	10¼	7 x 9"	213.00	241.00*	57	
	59/41	28	23 / 16	11	7 x 9"	261.00	285.00*	69	
	48/48	28	19 / 19	11	7 x 9"	237.00	265.00*	57	
	59/48	31	23 / 19	12¼	7 x 9"	286.00	320.00*	69	
	69/48	33	27 / 19	13	8 x 10"	330.00	382.00*	84.5	
	59/59	34	23 / 23	13½	8 x 10"	330.00	364.00*	69	
69/59	37	27 / 23	14½	10 x 12"	375.00	426.00*	84.5		
69/69	40	27 / 27	16	10 x 12"	420.00	439.00*	84.5		
Set of Protars	Bo. 18, 22, 29, cm.		Cells in case	4 x 5"	139.00	152.00	37		
	C. 22, 29, 35, cm.		Cells in case	5 x 7"	164.00	177.00	42		
	D. 29, 35, 41, 48, cm.		Cells in case	7 x 9"	325.00	352.00*	57		

In Standard Mount N					Prisms with Revolving Collar		Price List of Additional Process Equipment and Accessories on request
Series	Focal Length:		With Iris Diaphragm Only	Set of 4 Waterhouse Stops			
	cm.	in.			cm.		
Apo- Tessar F/9	{	24	9½	\$140.00	\$8.50	5.5	\$140.00
		30	12	168.00	8.50	5.5	140.00
		45	18	252.00	11.00	7	238.00
		60	23½	371.00	11.00	10	502.00
		75	29½	560.00	17.00	12.5	882.00
		90	35½	875.00	39.00	12.5	882.00
F/11		120	48	1400.00	62.00	.....	.....
S Tessar F/6.3		12	4¾	89.00	.....	.....	.....

BERNOTAR Polarizing Filters

Designation	Price
Slip-Over Mounts	\$
24 mm.....	\$ 7.50
27 ".....	9.00
28.5 ".....	10.00
32 ".....	12.00
37 ".....	13.00
42 ".....	16.00
51 ".....	20.00

Carl Zeiss Filters				Sunshades, Mounts, Etc.					
Designation Old New		Yellow Filters	Red or Green Filters	Sun Shades	Flanges	Standard Mount N	Sunk Mount B	Focusing Mount A	Compur Shutter
Slip-Over Mount				Fitting Charge Extra—\$3.00 to \$5.00					
III	21	4.00		\$ 2.00	\$ 1.00	\$13.00	\$16.00	\$30.00	\$25.00
	24	4.00	\$5.00						
	27	4.00	5.00						
	28.5	4.00	5.00						
	30	5.00		2.50	1.50				
	32	5.00	6.00						
	37	5.00	7.00						
IV	42	5.00	8.00	3.25	1.50	14.50	16.00	32.00	27.00
VI	51	6.00	8.00	4.00	2.00	17.00	24.00	44.00	38.00†
VII	57	9.50		4.50	2.25	20.00	31.00	60.00	45.00*
—	60	9.50		4.50	3.00	20.00	31.00	60.00	45.00*
X	69	21.00		6.00	3.00	24.00	40.00	72.00	55.00*
—	70	21.00		6.00	3.25	24.00	40.00	72.00	55.00*
XII	84.5	28.00		7.00	3.50	24.00	40.00	92.00	72.00*

† Compur Shutter, old style.

* Compound Shutter.

Distar Lenses		Distar Lenses		Proxar Lenses		Proxar Lenses	
Designation	Price	Designation	Price	Designation	Price	Designation	Price
Slip-Over Mount	\$	Slip-Over Mount	\$	Slip-Over Mount	\$	Slip-Over Mount	\$
1 x 21				1 x 21		0.5 x 42	
2 x 21				2 x 21		1 x 42	\$6.00
1 x 24		1.5 x 42	\$6.00	1 x 24		1.5 x 42	
2 x 24		2 x 42		2 x 24		2 x 42	
2 x 27	\$4.50	2.5 x 42		0.5 x 27		0.5 x 51	\$7.75
3 x 27		3 x 42		1 x 27	\$4.50	1 x 51	
3.5 x 27		3.5 x 42		1.5 x 27		1.5 x 51	
2 x 28.5				2 x 27		0.5 x 57	\$11.50
3 x 28.5				0.5 x 28.5		1 x 57	
3.5 x 28.5		1 x 51	6.75	1 x 28.5		0.5 x 60	
2.5 x 30		1.5 x 51		1.5 x 28.5		1 x 60	
3.5 x 30		2 x 51		2 x 28.5			
4.5 x 30		2.5 x 51					
1 x 32		3 x 51		0.5 x 30			
1.5 x 32				1 x 30			
2 x 32				1.5 x 30			
2.5 x 32	6.00	1 x 57	11.50	2 x 30			
3 x 32		1.5 x 57		0.5 x 32	6.00		
3.5 x 32		2 x 57		1 x 32			
4 x 32		2.5 x 57		1.5 x 32			
1.5 x 37		1 x 60		2 x 32			
2 x 37		1.5 x 60		0.5 x 37			
2.5 x 37		2 x 60		1 x 37			
3 x 37		2.5 x 60		1.5 x 37			
3.5 x 37				2 x 37			

Extra Case for Filters, Distars, Proxars\$1.00

Lens Cap, Focusing Scale\$0.60

When ordering Distars, Proxars, Filters, Sunshades or Flanges for objectives in Compur Shutter, specify whether or not the shutter has the self-timing device.

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