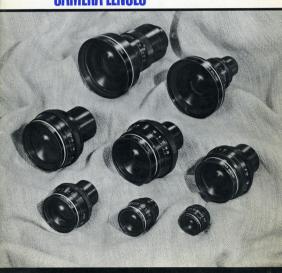
NEW

# SUPER BALTAR® PROFESSIONAL MOTION PICTURE CAMERA LENSES



# NEW SUPER BALTAR PROFESSIONAL MOTION PICTURE CAMERA LENSES

If you're in the business of making, buying, or using professional motion picture cameras, then you know the name Baltar. For 25 years, it has identified an unmatched quality in lenses. Now, Bausch & Lomb, maker of the Baltar, has produced an even finer series of lenses—the new Suner Baltars.

Super Baltars are better for two important reasons. First, research has produced notable advances in the lens making art. Secondly, the new lenses benefit from recent marked improvements in glass technology. Here is a lens as nearly perfect optically and mechanically as a lens

can be.

Super Baltars are ideal for motion picture and television production, and for specialized data collection photography. They are particularly useful in television specializations because all the lenses have been designed with essentially the same angular rotation of iris diaphragm rings between F stops. This permits remote control actuation of iris diaphragms. In aerospace projectations, the lenses have served in recording valuable data both on the ground and from the space vehicle in flight.

These lenses produce the results you expect in both black and white, and color. Images are crisp and clear. Coma and spherical aberration are negligible. There is no danger of reflection

from air-class surfaces or mounts.

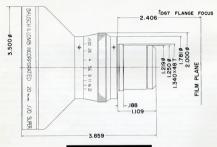
Super Baltar lenses put no limit on imagination or creativity. They are available in eight focal lengths: 20mm, 25mm, 35mm, 50mm, 3', 4", 6', and 9". They cover the formats most widely used in professional motion picture photography: 35mm and 70mm. And all lenses have both F and T anenture stoops.

For maximum versatility, Super Baltars are supplied in barrel with iris diaphragm. This permits the lenses to be used on a variety of cameras simply by adapting the mount to fit any camera.

On the following pages you'll learn more about Super Baltar lenses. If you're interested in better professional motion picture photography, you'll be interested in Super Baltar lenses.

The performance data shown in this catalog were compiled from production lenses and are typical of the performance of Super Baltar Lenses. However, performance of individual lenses may vary from the data shown.

# 20 m m.



MINIMUM FREE APERTURE FRONT 2.677 Ø REAR .945 Ø

2



# SUPER BALTAR 20mm F/2.0 • Catalog No. 51-15-32

Equivalent Fo				Format S	ize		16 x 22mm				
Back Focal Lo	Back Focal Length33mm				1/2 Angular Coverage						
Front Focus.			39mm	Transmi	sion at F/	2.0	74%				
		Relati	ve Illumi	nation at F	/2.0						
Angle	00	50	10°	15°	20°	25°	20°				

# V 100 95 85 75 62 50 Photographic Resolution in Lines/mm (Plus-X film developed in Microdol for 9 minutes at 68°F.)

Angle	00	5°	10°	15°	20°	25°	30°	32
F/2.0 Sagittal	75	66	47	40	45	54	41	18
Tangential	75	47	36	39	42	34	36	24
F/4.0 Sagittal	84	75	53	52	45	60	46	18
Tangential	84	59	41	35	47	39	39	27
F/8.0 Sagittal	84	83	82	81	70	67	64	35
Tangential	84	74	46	35	33	49	45	43

(Kodak	High Contras	t film	developed	in D-1	9 for 6	minutes	at 68°F.)
Angle	0*	5°	10°	15°	20°	25°	30°

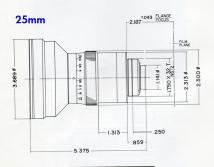
F/2.0 Sagittal	149	120	92	64	63	76	73	27
Tangential	149	94	65	62	59	69	71	47
F/4.0 Sagittal	169	169	132	116	79	86	63	27
Tangential	169	94	58	50	59	69	65	43
F/8.0 Sagittal	189	189	147	144	125	121	129	50
Tangential	189	133	123	62	59	69	197	85

### ORDERING INFORMATION

Catalog No. 51-15-32

Description

20mm F/2.0 Super Baltar fixed focus lens in barrel with iris diaphragm.



MINIMUM FREE APERTURE FRONT 3.071 PREAR .799 P



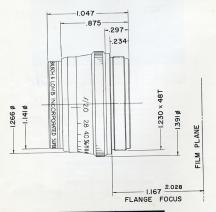
# SUPER BALTAR 25mm F/2.0 • Catalog No. 51-15-33

ront Focu	ss		34mm	Tr	ansmissio	Coverage on at F/2.0		85
		Rel	ative Illum	ination	at F/2.3			
Angle	00	5°	10°	15°	20°	25°	27°	30°
%	100	97	91	79	69	54	40	21
Plus-X film	develope		graphic Re odol for 7 n				for high	contras
An	gle	0,0	5°	10°	15°	20°	25°	30°
F/2.0 Sag	ittal	67	53	52	41	31	30	26
Tar	gential	67	53	47	41	31	25	28
F/4.0 Sag	ittal	76	67	63	58	50	40	35
	gential	76	75	61	56	40	31	34
F/8.0 Sag	ittal	76	76	75	69	50	40	35
Tar	gential	76	71	64	49	42	31	34
(Microfile t	ilm develo	ped in D	-19 for 6 mi	inutes at	68°F with	out filter	for high c	ontrast
Ang	le	0.	5°	10°	15°	20°	25°	30°
F/2.0 Sag	ittal	120	120	110	100	71	70	44
Tar	gential	120	102	70	51	46	35	36
F/4.0 Sag	ittal	193	181	178	136	99	78	44
Tar	gential	193	181	151	113	62	44	49
F/8.0 Sag	ittal	193	181	168	165	113	83	73
Tar	gential	193	170	117	101	84	89	91

# ORDERING INFORMATION

Catalog No. 51-15-33 Description 25mm F/2.0 Super Baltar fixed focus lens in barrel with iris dia-phragm.

# 35 mm.



MINIMUM FREE APERTURE FRONT .689Ø REAR .551Ø



# SUPER BALTAR 35mm F/2.0 • Catalog No. 51-15-34

Equivalent Focal Le Back Focal Length Front Focus		26mm	Format Size. ¼ Angular Co Transmission	overage	21
	Relati	ve Illumi	nation at F/2.0		
Angle	0,	5°	10*	15°	21°

# Photographic Resolution in Lines/mm

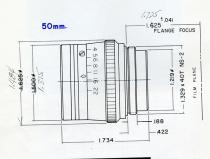
(Plus-X film developed in Microdol for 9 minutes at 68°F.)					
Angle	00	5°	10°	15°	21°
F/2.0 Sagittal	86	67	53	41	45
Tangential	86	85	59	51	42
F/4.0 Sagittal	96	85	53	41	45
Tangential	96	85	66	43	42
F/8.0 Sagittal	96	96	75	52	50

(Nodak High C	ontrast him	developed in	D-19 for 6 m	inutes at 68°F.)	
Angle	00	5°	10°	15°	210
F/2.0 Sagittal	171	170	106	66	70
Tangential	171	170	118	114	96
F/4.0 Sagittal	190	215	168	83	50
Tangential	190	170	133	128	101
F/8.0 Sagittal	171	170	136	133	128
Tangential	171	120	140	100	110

### ORDERING INFORMATION

Catalog No.

Description 51-15-34 35mm F/2.0 Super Baltar fixed focus lens in barrel with iris diaphragm



MINIMUM FREE APERTURE FRONT 1.157 Φ REAR .772 Φ

8



# SUPER BALTAR 50mm F/2.0 • Catalog No. 51-15-35

Equivalent Focal Length 53mm	Format Size
Back Focal Length	½ Angular Coverage

Angle 0° 5° 10° 13° 16°

### Photographic Resolution in Lines/mm (Plus-X film developed in Microdol for 7 minutes at 68°F.)

Angle	00	5°	10°	13°	16°
F/2.0 Sagittal	85	57	57	63	50
Tangential	85	60	60	61	38
F/4.0 Sagittal	85	91	67	53	50
Tangential	85	75	66	44	38
F/8.0 Sagittal	96	91	71	53	50
Tangential	00	00		44	

### (Microfile film developed in D-19 for 6 minutes at 69°E)

Angle	0°	5°	10°	13°	16°
F/2.0 Sagittal	239	220	203	180	109
Tangential	239	172	232	185	198
F/4.0 Sagittal	239	238	211	216	126
Tangential	239	212	207	208	70
F/8.0 Sagittal	239	238	210	158	126
Tangential	239	238	207	152	70

# ORDERING INFORMATION

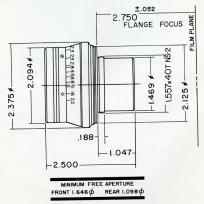
Catalog No.

Description

No.

51-15-35 50mm F/2.0 Super Baltar fixed focus lens in barrel with iris diaphragm

# 3in.





# 

	29mm		nission at F/2.0.	90%
	Relative Illum	ination at	F/2.0	
Angle	00	5°	10°	12.5°
%	100	97	67	54

### Photographic Resolution in Lines/mm (Plus-X film developed in Microdol for 7 minutes at 68°F.)

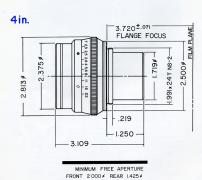
Angle	0,	5°	10°	12.5
F/2.0 Sagittal	71	63	50	49
Tangential	71	62	55	56
/4.0 Sagittal	89	85	66	61
Tangential	89	94	78	76
/8.0 Sagittal	114	113	79	67
Tangential	114	100	99	56

### (Microfile film developed in D.19 for 6 minutes at 6935.)

Angle	0,	5°	10°	12.5
F/2.0 Sagittal	159	136	138	100
Tangential	159	145	124	102
F/4.0 Sagittal	201	201	160	112
Tangential	201	201	166	136
F/8.0 Sagittal	159	181	179	156
Tangential	159	179	154	140

# Catalog ORDERING INFORMATION

No. Description
51-15-43 3" F/2.0 Super Baltar fixed focus lens in barrel with iris diaphragm





## SUPER BALTAR 4" F/2.0 . Catalog No. 51-15-44

Equivalent Focal Length         100mm           Back Focal Length         64mm           Front Focus         42mm	Format Size
Relative Illumi	ination at F/2.0

# Photographic Resolution in Lines/mm

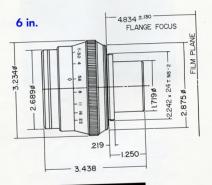
(Plus-X filr	n developed	in Microdol f	or 7 minute:	s at 68°F.)	
Angle	00	2.5°	5°	7.5°	10°
F/2.3 Sagittal	68	68	48	47	46
Tangential	68	53	43	42	41
F/4.0 Sagittal	87	75	75	- 60	42
Tangential	87	87	87	67	66
F/8.0 Sagittal	97	97	97	87	59
Tangential	87	87	97	97	95

# (Kodak High Resolution film developed in D-19 for 6 minutes at 68°F.)

Angle	0+	2.5°	5°	7.5°	100
F/2.3 Sagittal	152	120	60	120	66
Tangential	152	76	67	106	105
F/4.0 Sagittal	214	214	193	134	95
Tangential	214	171	152	133	105
F/8.0 Sagittal	171	171	193	171	151
Tangential	171	171	102	171	400

# ORDERING INFORMATION

Catalog No. Description
51-15-44 4" F/2.0 Super Baltar fixed focus lens in barrel with iris diaphragm.



MINIMUM FREE APERTURE FRONT 2.142¢ REAR 1.346¢

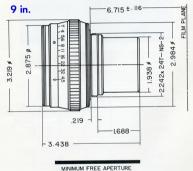


# SUPER BALTAR 6" F/2.8 • Catalog No. 51-15-46

t Focus		105mm	Transmissi	ion at F/2.8	
	Re	lative Illun	nination at F/2	.8	
Angle	00	5°	6°	80	11
%	100	76	70	61	48
	Photos	raphic Pos	olution in Line		
(P			icrodol for 7 mi		
Angle		0°	5°	80	119
F/2.8 Sagitt		50	50	46	47
Tange	ential	50	53	43	36
F/4.0 Sagitt	al	60	56	44	47
Tange	ential	60	59	43	39
F/8.0 Sagitt	al	79	70	63	54
Tange	intial	79	63	58	46
(Kodak H		n film devel	oped in D-19 fo	r 6 minutes at	68°F.)
F/2.8 Sagitt	al	126	100	89	78
Tange	ntial	126	100	79	67
F/4.0 Sagitt	al	141	107	94	86
Tange	ntial	141	113	79	67
F/8.0 Sagitt	al	159	133	133	112
Tange	ntial	159	120	94	64

### ORDERING INFORMATION

No. Description
51-15-46 6" F/2.8 Super Baltar fixed focus lens in barrel with iris diaphragm...



MINIMUM FREE APERTURE FRONT 2.252  $\phi$  REAR 1.496  $\phi$ 



# SUPER BALTAR 9" F/4.0 . Catalog No. 51-15-49

Back Focal Length.	ngth	1/2 Ang	ular Coverage	2.25 x 2.25" 12° 88%
	Relative Illu	mination at	F/4.0	
Angle	000	5°	80	12°
%	100	87	70	46

# Photographic Resolution in Lines/mm

(Plus-X film c	ievelopea in Mi	croadi for 7 mil	mutes at ou r.)	
Angle	0°	5°	8°	120
F/4.0 Sagittal	66	46	44	27
Tangential	66	26	23	11
F/8.0 Sagittal	84	55	49	36
	0.4	91	96	91

Angle	0*	5°	89	12°
F/4.0 Sagittal	119	79	66	30
Tangential	119	42	35	15
F/8.0 Sagittal	132	118	84	65
Tangential	132	64	52	34

Description

ORDERING INFORMATION

Catalog No.

51-15-49 9" F/4.0 Super Baltar fixed focus lens in barrel with iris diaphragm.

NEW SUPER BALTAR PROFESSIONAL MOTION PICTURE CAMERA LENSES

BAUSCH & LOMB TROCHESTER, NEW YORK 14602

51-169, 0265, BBL

# Bausch & Lomb SUPER BALTAR PROFESSIONAL MOTION PICTURE CAMERA LENSES

No.		Suggested List Price
51-15-32	20mm F/2.0 Super Baltar Lens	\$ 617.40
51-15-33	25mm F/2.0 Super Baltar Lens	431.20
51-15-34	35mm F/2.0 Super Baltar Lens	234.00
51-15-35	50mm F/2.0 Super Baltar Lens	220.00
51-15-43	3" F/2.0 Super Baltar Lens	238.00
51-15-44	4" F/2.0 Super Baltar Lens	325.00
51-15-46	6" F/2.8 Super Baltar Lens	285.00
51-15-49	9" F/4.0 Super Baltar Lens	400.00

\*Price includes Federal Excise Tax of \$40.40

†Price includes Federal Excise Tax of \$28.20

Prices are subject to change without notice.

Delivery: All lenses normally available in small quantities for delivery within 30 days after receipt of order.