

**CARL ZEISS**  
**JENA**



"PRINCE OF WALES' TIGRESS."  
Taken with ZEISS F/4.5 TESSAR.

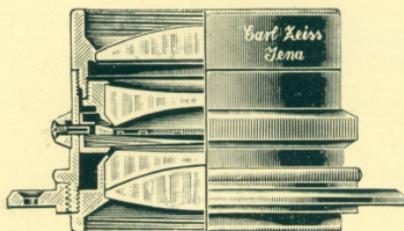
# ZEISS

## PHOTOGRAPHIC LENSES

*British*  
*Representatives :* **CARL ZEISS (LONDON) LTD.,**  
Winsley House, Wells Street, Oxford Street, London, W. 1

### ZEISS AGENTS :—

NEW YORK : Carl Zeiss, Inc., 485 Fifth Avenue. MONTREAL : The Hughes Owens Co., Ltd., 247 Notre Dame Street, W., also at Ottawa, Toronto, Winnipeg, Vancouver. CALCUTTA : Adair, Dutt & Co., Ltd., 5 Dalhousie Square, East. MELBOURNE : E. C. Heyne Pty., Ltd., Union Building, 100 Flinders Street, also at Sydney. CAPE TOWN : B. Owen Jones, Ltd., 33 Strand Street; and at PARIS, MILAN, MADRID, RIO DE JANEIRO, SHANGHAI, TOKIO, etc.



# TESSARS

## F/4.5 and F/6.3

### RAPID UNIVERSAL

## TESSARS

### F/3.5

THE Tessars F/4.5 and F/6.3 need no introduction as the premier rapid anastigmats for the highest quality work—Press, portrait or colour. The latest innovation is the Tessar F/3.5 for hand cameras, shown in heavy type below. These lenses are in every way the finest ultra rapid universal hand camera lenses yet produced. Attention is also drawn to the F/3.5 Tessars of longer focus which, with the F/2.7 Tessars (see p. 610) are unequalled for portraiture.

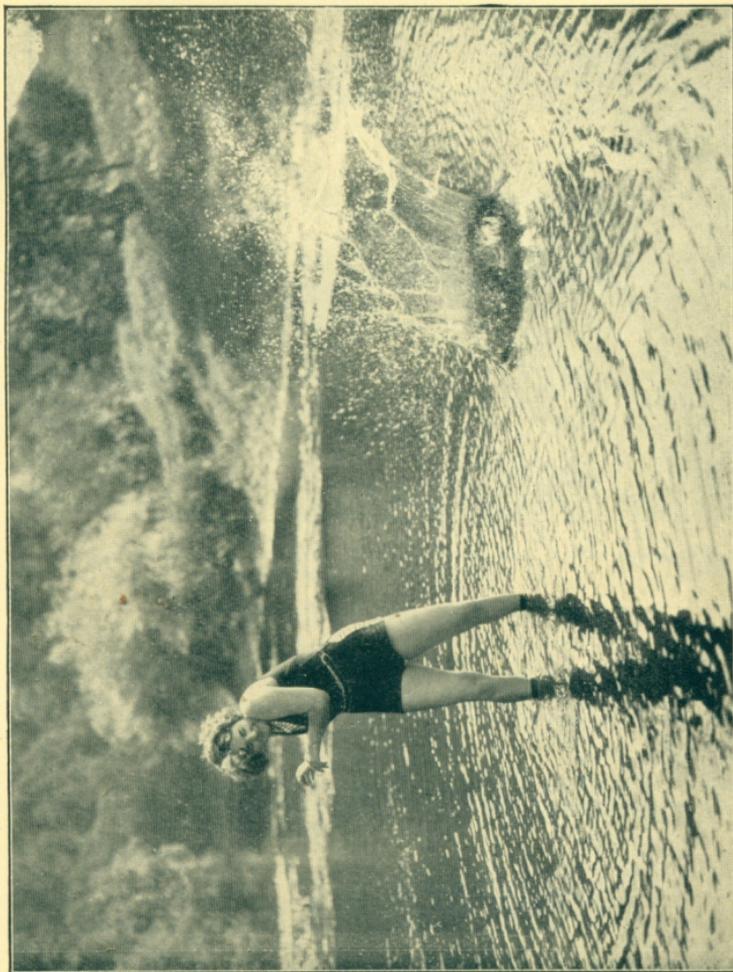
Focal Length.		Plate Size for which recommended.	PRICE.					
			In Standard "N" Mount.	In Sunk "B" Mount.	In Focussing "A" Mount.	With "Compur" or "Compound" Shutter.		
cm.	in.	in.	£	s.	d.	£	s.	d.
<b>TESSAR F/3.5.</b>								
3.5	1 1/8	3 1/4 x 1/4	6	5	0	8	5	0
4	1 1/2	1 x 1/4	6	5	0	8	5	0
4	2	1 x 1/4	6	5	0	6	15	0
5	2	1 x 1/4	6	5	0	7	15	0
7.5	3	1 1/4 x 1 1/4	7	5	0	9	5	0
10.5	4 1/4	3 1/2 x 2 1/2	9	5	0	9	15	0
12	4 3/4	4 1/4 x 3 1/4	10	0	0	10	10	0
13.5	5 1/4	4 1/4 x 3 1/4	10	15	0	11	10	0
15	6	5 x 4	12	5	0	13	0	0
16.5	6 1/2	5 1/2 x 3 1/2	14	5	0	15	5	0
21	8 1/4	7 x 5	23	0	0	18	5	0
25	10	5 x 4	29	5	0	29	0	0
30	12	6 1/2 x 4 3/4	37	0	0	37	0	0

In course of preparation : Tessars F/3.5 7 cm. and 8 cm. focus.

<b>TESSAR F/4.5.</b>								
£	s.	d.	£	s.	d.	£	s.	d.
4	1 1/2	1 1/4 x 1 1/4	5	0	0	7	0	0
5.5	2 1/4	1 3/4 x 1 3/4	5	0	0	5	10	0
6.5	2 1/2	2 x 1 3/4	5	0	0	5	10	0
7.5	3	2 1/4 x 1 3/4	5	0	0	5	10	0
9.0	3 1/2	3 1/4 x 2 1/4	5	0	0	5	10	0
10.5	4	3 1/4 x 2 1/2	5	0	0	5	10	0
12	4 1/4	3 1/4 x 2 3/4	5	10	0	6	0	0
13.5	5 1/4	4 1/4 x 3 1/4	5	15	0	6	5	0
15	6	5 x 4	6	10	0	7	0	0
16.5	6 1/2	5 1/2 x 3 1/2	8	0	0	8	15	0
18	7	6 1/4 x 4 1/4	10	10	0	11	5	0
21	8 1/4	7 1/2 x 5	15	10	0	16	10	0
25	10	8 x 5	21	5	0	22	5	0
30	12	8 1/2 x 6 1/2	30	15	0	32	10	0
36	14	9 x 7	40	10	0	—	—	—
40	16	10 x 8	50	0	0	—	—	—
50	20	12 x 10	77	0	0	—	—	—

Particulars of Tessar F/6.3 on application.

CARL ZEISS  
JENA



Taken with ZEISS F/4.5 TESSAR



# TESSAR F/2.7 & TRIOTAR F/3 & F/3.5

EXTRA RAPID



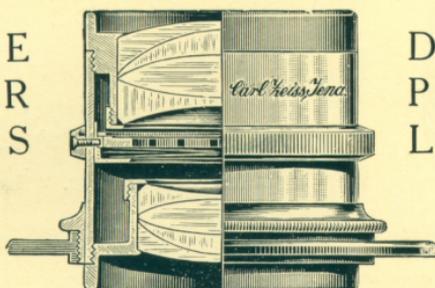
Photograph taken in January with a ZEISS TESSAR F/3.5; focus 13.5 cm.  
Exposure 1/500 second.

Focal Length.		Plate Size for which recommended, in.	TESSAR F/2.7				TRIOTAR F/3 AND F/3.5				
			In Standard "N" Mount.		In Focussing "A" Mount.		In Standard "N" Mount.		In Focussing "A" Mount.		
cm.	in.		£	s.	d.	£	s.	d.	£	s.	d.
1.5	$1\frac{1}{4}$	Small cine. e.g. $\frac{3}{8} \times \frac{1}{4}$	9	5	0	—	—	—	4	15	0
2	$1\frac{1}{2}$		7	15	0	—	—	—	4	0	0
2.5	1	Standard cine. $1 \times \frac{3}{4}$	7	15	0	9	15	0	4	0	0
3.5	$1\frac{1}{2}$		7	15	0	9	15	0	4	0	0
4	1	$2\frac{3}{8} \times 1\frac{3}{4}$	7	15	0	9	15	0	4	0	0
5	$2\frac{1}{4}$		8	10	0	10	10	0	4	5	0
7.5	3	$3\frac{1}{2} \times 2\frac{3}{8}$	—	—	—	—	—	—	5	0	0
8	$3\frac{1}{4}$		10	0	0	12	0	0	—	—	—
10	4	$3\frac{1}{2} \times 2\frac{3}{8}$	12	10	0	14	15	0	6	5	0
12	$4\frac{3}{4}$		14	0	0	17	0	0	7	0	0
14.5	$5\frac{1}{4}$	$4\frac{1}{2} \times 3\frac{1}{4}$	16	10	0	20	10	0	—	—	—
15	6	$4\frac{1}{2} \times 3\frac{1}{4}$	—	—	—	—	—	—	9	0	0
16.5	$6\frac{1}{2}$	$5 \times 4$	—	—	—	—	—	—	12	0	0
18	7	$5 \times 4$	20	0	0	26	0	0	—	—	—
18	7	$5\frac{1}{2} \times 3\frac{1}{2}$	—	—	—	—	—	—	11	10	0
21	$8\frac{1}{4}$	$6\frac{1}{2} \times 4\frac{3}{4}$	—	—	—	—	—	—	15	0	0
21	$8\frac{1}{4}$	$6\frac{1}{2} \times 4\frac{3}{4}$	—	—	—	—	—	—	21	0	0

Particulars of these Lenses in sunk "B" mount or with "Comp." shutter on application. Write for Pamphlet P258.



SINGLE  
PROTAR  
LENSES  
F/12.5



DOUBLE  
PROTAR  
LENSES  
F/6.3  
F/7.7

THE PERFECT CONVERTIBLE

THE Double Protar is a universal Lens in every sense of the word, and is in this respect unapproached by any other lens.

Focal Length		Plate Size for which recommended in.	PRICE.			With "Compur" or "Compound" Shutter.
cm.	in.		In Standard "N" Mount.	In Sunk "B" Mount.	In Focussing "A" Mount.	

PROTAR LENS F/12.5.

In.		Plate Size	PRICE.			PRICE.		
cm.	in.		£	s.	d.	£	s.	d.
18	7	6½ × 4¾	6	5	0	—	—	—
29	11½	8½ × 6½	7	15	0	—	—	—
35	14	10 × 8	9	5	0	—	—	—

DOUBLE-PROTAR F/6.3—7.7

In.		Plate Size	PRICE.			PRICE.		
cm.	in.		£	s.	d.	£	s.	d.
7/7	4	3½ × 2½	11	0	0	—	—	12 15 0
8½/8½	5	4½ × 3½	11	10	0	—	—	13 5 0
11½/11½	6¾	6½ × 4¾	14	0	0	—	—	16 0 0
16/16	9½	8½ × 6½	23	10	0	—	—	26 15 0

PROTAR F/18.

The Protars F/18 embrace a very wide angular field, varying from 97° to 110°, which renders them particularly valuable for photographing buildings, interiors, machinery, etc.

Focal Length.		Plate Size for which recommended in.	In Standard "N" Mount.
cm.	in.		
8.5	3¼	4½ × 3¼	£ 5 0 0
11	4½	6½ × 4¾	£ 5 10 0
18	7	8½ × 6½	£ 7 5 0

\* Without tube.

Full Detailed List on Application.



## ZEISS DISTAR and PROXAR LENSES

For Supplementary use with TESSARS

**D**ISTAR Lenses are simple weak negative lenses, which placed before the objective **increase** its focal length up to twice its normal value.

PROXAR Lenses are simple positive attachment lenses which **shorten** the focal length of the objective. Thus PROXAR Lenses make possible on the one hand close-up pictures on a large scale; on the other hand they enable a wider angle to be included on the plate than the objective alone would permit. DISTAR and PROXAR Lenses therefore widen considerably the scope of the ordinary focus camera lens, giving excellent results in combination with the ZEISS TESSAR. (See illustrations opposite.)

DISTAR Lenses.	PROXAR Lenses.	Available for use with Photo Lens.	Zeiss Tube.	Shutter Size.	PRICE. £ s. d.
2/Co 3/Co 3.5/Co	0.5/Co* 1/Co* 1.5/Co 2/Co	} Tessar F/4.5, f=9 cm.=3½ in. ,, F/6.3, f=12 cm.=4¾ in. ,, F/6.3, f=13.5 cm.=5¼ in.	I	0/1	0 16 0
			I	0/1	0 16 0
			—	0	0 16 0
2/Co* 3/Co* 3.5/Co*	0.5/Co* 1/Co* 1.5/Co* 2/Co*	} Tessar F/4.5, f=10.5 cm.=4¼ in. ,, F/6.3, f=15 cm.=6 in.	—	0/1	0 16 0
			—	0	0 16 0
			—	—	0 16 0
2.5/Coa 3.5/Coa 4.5/Coa	0.5/Coa 1/Coa 1.5/Coa 2/Coa	} Tessar F/4.5, f=12 cm.=4¾ in.	—	0a	0 16 0
			—	—	0 16 0
			—	—	0 16 0
1.5/II 2.5/II 3/II	0.5/II 1/II 1.5/II 2/II	} Tessar F/4.5, f=10.5 cm.=4¼ in. ,, F/4.5, f=12 cm.=4¾ in. ,, F/6.3, f=13.5 cm.=5¼ in. ,, F/6.3, f=15 cm.=6 in. ,, F/6.3, f=16.5 cm.=6½ in.	II	—	0 16 0
			II	—	0 16 0
			II	—	0 16 0
			II	—	0 16 0
			—	I	0 16 0
1.5/III 2/III 3/III 3.5/III	0.5/III 1/III 1.5/III 2/III	} Tessar F/4.5, f=13.5 cm.=5¼ in. ,, F/6.3, f=16.5 cm.=6½ in.	—	1/III	0 16 0
			III	—	0 16 0
			—	—	0 16 0
			—	—	0 16 0
1.5/IV 2/IV 2.5/IV 3/IV 3.5/IV	0.5/IV 1/IV 1.5/IV 2/IV	} Tessar F/4.5, f=13.5 cm.=5¼ in. ,, F/4.5, f=15 cm.=6 in. ,, F/6.3, f=18 cm.=7½ in. ,, F/6.3, f=21 cm.=8¾ in.	IV	—	0 16 0
			IV	2	0 16 0
			IV	2	0 16 0
			IV	2	0 16 0
			IV	2	0 16 0
1/VI 1.5/VI 2/VI 2.5/VI 3/VI	0.5/VI 1/VI 1.5/VI	} Tessar F/4.5, f=16.5 cm.=6½ in. ,, F/4.5, f=18 cm.=7½ in.	VI	2a	0 19 0
			VI	2a	0 19 0
			—	—	0 19 0
			—	—	0 19 0
1/VII 1.5/VII 2/VII 2.5/VII	0.5/VII 1/VII	} Tessar F/4.5, f=21 cm.=8¾ in.	VII	3	1 10 0
			—	—	1 10 0
			—	—	1 10 0

Particulars and Prices of other combinations on application.

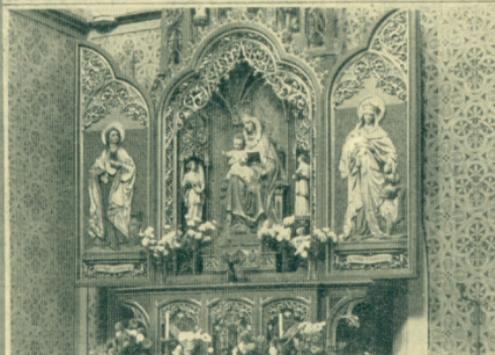
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JENA



TESSAR 1:4,5 f=13,5cm+ PROXAR 2/III



TESSAR 1:4,5 f=13,5cm



TESSAR 1:4,5 f=13,5cm+ DISTAR 3,5/III

BY the addition of a supplementary set of PROXAR and DISTAR Lenses you may convert **YOUR TESSAR** into a very elastic set, and be able to choose from many renderings of your subject *from the same standpoint* as indicated in this photograph.

The PROXAR Lens gives **SHORTER** focal lengths and a correspondingly **WIDE ANGLE**. The DISTAR Lens gives **LONGER** focal lengths and correspondingly **LARGER SCALE** PICTURES.



These photographs of the Weimar Church Altar illustrate the comparative fields of view embraced by the Tessar F/4.5, 13.5 cm. focus, used alone and in combination with the Distar and Proxar Lenses.

Write for Lists P 261 and P 246



# ZEISS BIOTAR

## F/1.4

### CINEMA ANASTIGMAT

THE BIOTAR is a new series designed for standard and narrow film cameras. It is the **most rapid lens** so far produced, and is **superior at any aperture to any other lens at the same aperture.**

The angular field of the BIOTAR is about 42°, standard film being well covered by the 4 cm. lens and narrow film (12.8 mm. diagonal) by the 1.7 cm. lens.

FOR STANDARD FILM.			£	s.	d.
Biotar F/1.4.	4 cm. focus ...	Price	15	10	0
" "	" " 5 cm. focus ...	" "	17	10	0

FOR NARROW FILM.			£	s.	d.
Biotar F/1.4.	2.5 cm. focus ...	Price	11	15	0
" "	" " 1.7 cm. focus ...	" "	11	15	0

A lens of 2 cm. focal length is, with others, in course of preparation.

## ZEISS TELE-TESSAR

### F/6.3

RAPID TELE-PHOTOGRAPHIC LENS.

The Tele-Tessar produces sharply defined pictures at full aperture with full illumination to the extreme edge of the field.

It is invaluable to sports and Press photographers, and places in the hands of Portrait and Landscape photographers a means of improving perspective without loss of speed or definition.

Focal Length.				Recommended for Plate Sizes.				PRICE.							
								In Standard "N" Mount.	In sunk "B" Mount.	In focussing "A" Mount.	With "Compur" or "Compound" Shutter.				
cm.	in.	cm.	in.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
12	4¾	6×4½	2½×1½	10	15	0	11	5	0	12	15	0	13	5	0
18	7	9×6	3½×2½	12	5	0	12	15	0	14	5	0	14	10	0
25	10	12×9	4½×3½	15	10	0	16	0	0	17	15	0	18	5	0
32	12¾	15×10	6¼×4¾	20	0	0	20	15	0	23	0	0	23	5	0
40	16	18×14	7½×5	26	5	0	27	5	0	—	—	—	29	5	0