CONCERNING

### GOKE TERSES

### CONCERNING



by J. RONALD TAYLOR



Half-tones by Photochrome Engraving Co. with a Cooke Lens

Copyright 1903

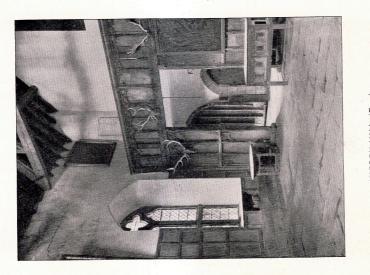


## FLASHLIGHT-PORTRAIT

by

E. J. Davison

From a 6½ x 8½ negative made with a Cooke Lens wide open



HADDON HALL (Eng.)
by

From a 61/2 x 81/2 untouched negative made with a small Cooke Lens wide open





"WET DAYS IN

NEW YORK"

by

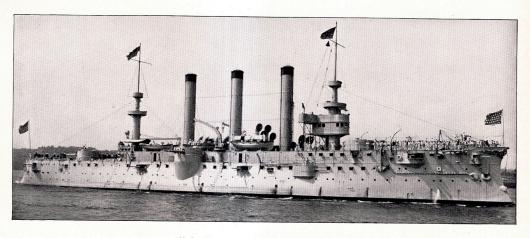
John Beeby

From untouched negatives made with a Cooke Lens



"THE DIVER"
by
Louis Meldon

From a  $6\frac{1}{2} \times 8\frac{1}{2}$  untouched negative made with a Cooke Lens wide open



U. S. ARMORED CRUISER "BROOKLYN"
by
Wm. H. Rau, Philadelphia. Copyright 1898
From a 10 x 12 untouched negative made with a Cooke Lens



"SNOW SCENE"
by
James H. McCorkle

From a 5 x 7 untouched negative made with a Cooke Lens

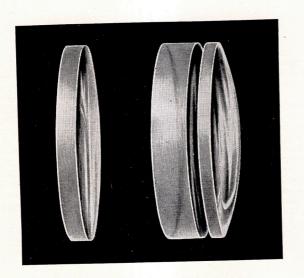
### GOKE ENSES

The right choice of a modern anastigmat has become exceedingly difficult. There are many types, and the claims for each are so conflicting as to mislead rather than guide. The purpose of this booklet is to state how Cooke Lenses differ from others, and, in doing so, to avoid the extravagance so common among manufacturers.

Cooke Lenses were introduced some eight years ago by Cooke & Sons, the well-known English designers of astronomical telescopes, a History manufacturing license being acquired by Taylor, Taylor & Hobson. Sub-licenses quickly followed in other countries, and a New York office was recently opened.

The lenses consist of three glasses, and with this simple construction is combined a unique screw-adjustment for use by the makers. Construction Errors which remain in more complex systems, are thus easily removed

and a uniform excellence is attained, whereas the older anastigmats frequently show a



THREE SIMPLE GLASSES marked difference one from another. Obviously, more light reaches the sensitive plate through three glasses than through six or eight; there is no cement, and, the air-spaces, being adjustable, assist still further in correcting the entire system. The familiar night-pictures by John Beeby and W. A. Fraser of New York, show how singularly free are the lenses from what is known as "flare" and "ghost." This again is due to the simple construction and to the design of the curves whereby surface-reflections can not fall on the plate. Since the first appearance of the lenses, European opticians have recognized that, while mathematically perfect, these are mechanically the simplest invented since the introduction of Jena glass. They are light, compact, and rigid and durable to a remarkable degree.

Their Use

While thus selected for the best scientific work, the lenses are used by amateurs every-

where - by engineers, in the portrait-studio, by army and navy photographers, and by newspaper-

men who seek, above all else, rapidity and fine definition. One of the first American purchasers was Mr. Alfred Stieglitz. Many of his well-known pictures are the work of a Cooke Lens, which is still in constant use by him. Wherever possible, the makers facilitate the trial of Cooke Lenses for comparison with others. By removing the back-glass and substituting another, the

tension-lens. Better results are thus obtained than with

### Extensionlenses

entire focal length is increased. Thus, from the same point of view, the photographer obtains larger images of distant objects. These extension-lenses increase the size of image about onethird; for example: an object taken with the normal lens, and two inches long in the photograph, is, from the same position, made three inches long with the ex-



portions of other types used alone. The normal Cooke Lenses may be used for wide-angle work upon plates many sizes larger than those covered by them with full apertures, but the extension-lenses are not intended for this. The

### Focussing lenses

latter are supplied in leather pocket-cases. Focussing Cooke Lenses focus objects at various distances from the camera, simply by a half-turn of the front ring.

This has a scale of distances in feet engraved upon it. The turning of the ring changes the focal length so that focussing can be done in rigid cameras without bellows or other means of extension. Focussing Cooke Lenses are not intended to replace ordinary Cooke Lenses for copying or for large work, but are specially useful for hand-cameras. When their focussingscales are set to infinity they are optically the same as ordinary Cooke Lenses and may be used with like perfect results in extending-cameras, or for any purpose whatever. Shutters can be fitted.



FOCUSSING COKE LENS Series III.f/6.5

### Improved Screw

The improved screw, supplied with all Cooke Lenses and flanges, abolishes the trouble usual in screwing a lens to its flange. As shown in the illustration, the screw on the lens (like that on the flange) is formed with the thread commencing abruptly at a point plainly marked upon each by an arrow. To screw the two together, the arrow-marks are placed in line, and the "engagement" is effected with perfect smoothness and without a hitch. Three turns will bring the lens home, while, in removing it, there is no fear of dropping the lens through uncertainty in this respect. A further improvement lies in the fact that any number of Cooke Lenses, fitting the same flange, screw home with their diaphragm-indexes in one position

convenient for use. Protection from Injury

summarized thus:

Reasons for Success

Compact carrying-cases of solid leather are included with the larger lenses, and metal dust-caps are made for further protection if necessary.

The reasons for the success of Cooke Lenses may be

Their extreme rapidity.



Three simple glasses instead of six or more.

The correction of errors which can not be removed from the older systems, and a remarkably flat field.

A uniform standard of excellence.

The Cooke Extension-lens forming at once a complete anastigmat of increased focal length. A unique focussing-device.

Patent interchangeable flange-screws.

Compactness and lightness, with great rigidity and durability.

Fine mechanical construction and beauty of finish.

It is a common mistake to suppose that one lens can perform better than another in respect of its defining in one plane objects at various distances from the camera. The truth is that this quality, which is called "depth of focus," depends upon the focus of the lens and the relative size of its aperture, and upon nothing else. A lens of short focus is better able than is one of long focus to define in one plane objects both far and near. This is why, for ordinary work, large apertures are not recommended for Cooke Lenses of long focus. The question is fully discussed in an article on "The Principles of a Lens's Action," mailed free on request.

## PRICE-LIST CONDENSED

# SERIES III. F/6.5

PRICES	With iris diaphragm and stand- ard flange	\$27.50 32.00 35.00 39.50 48.50 53.00 91.00
**	Diameter of flange-screw	7474777
DIMENSIONS IN INCHES	At F/16 to cover plates	3.7x 4.74 4.3x 65% 6.7x 8.7% 8 x 10 8 x 10
ENSIONS	With full apertures to cover plates	2½ x 2½ 3½ x 3½ 3½ x 4¼ 4 x 5 4¾ x 6½ 5½ x 7 6½ x 8½
DIMI	Equiv- alent focus	24 4 4 7 7 8 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	No.	10W4NOV

### SERIES V. F/8

\$26.00 28.00 32.00 39.50 48.00 67.50 87.00 130.00 160.50	444222 R	434 x 652 5 x 888 652 x 887 10 x 12 112 x 15 14 x 17 18 x 20 31 im. circle	X X X X X X X X X X X X X X X X X X X	2 × × 4 × × × × × × × × × × × × × × × ×
160.	3	31 in. circle	XIS	12
130.00	21/2	18 x 20	X 12	OI
87.00	2	14 x 17	OI X	00
67.50	13/4	12 X 15	x 8½	61/2
48.00	1 1/2	IO X 12	× 8	S
39.50	1/2	6½ x 8½	x 6½	43/4
32.00	11/4	2 x &	x 5	4
28.00	174	4% x 6%	x 4¼	314
\$26.00	1,4	4 x 5	x 374	3 74

# COOKE PORTRAIT-LENSES F/4.5

0	0
\$121.50	242.50
3 in.	4 in.
3	4
61/2	or or 8
××	X Or X
434	8
3½ x 4¼	61/2
×	×
31/4	43/4
8	13
22	23

Other sizes on application.

Fora

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