

Kinematograph

■ = Lenses = ■

Their choice and use



J. H. Dallmeyer, Ltd





Established in London in 1860

**J. H. DALLMEYER, LTD.**

Manufacturers and Patentees of  
**KINEMATOGRAPH**  
AND  
**PHOTOGRAPHIC**    ◯    ◯  
◯    ◯    ◯    **LENSES, Etc.**

London Offices & Showrooms :  
**CARLTON HOUSE, 11d, REGENT STREET,**  
**PICCADILLY CIRCUS, S.W.1**

Factory :  
**CHURCH END WORKS, HIGH ROAD, WILLESDEN,**  
**LONDON, N.W. 10.**

Telegraphic Address  
**DALLMEYER, WILLROAD,**  
**LONDON.**

Telephones :  
**6513 GERRARD**  
**176 WILLESDEN**

NOVEMBER, 1920

W.D.  
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## THE CHOICE OF A PROJECTION LENS

For Kinematograph Projection a lens of the highest quality is necessary, and upon the right choice and proper use of the lens the success of your Theatre depends. It is, therefore, imperative when considering the purchase of a Kinematograph Lens to exercise the greatest care and discrimination in your choice.

Dallmeyer Kinematograph Projection Lenses were first introduced in 1905, since which date many improvements have been made, with the result that to-day Dallmeyer Kinematograph Lenses probably represent the highest degree of perfection obtainable. Their enormous relative aperture, consequent on the use of a large glass diameter with the absence of central stops, accounts for the brilliant pictures they project, and the extreme accuracy with which they are manufactured ensures perfect detail over the entire screen.

In order that the picture projected by your new Dallmeyer Lens may exactly fit the screen, please, when ordering, send the following measurements: distance between projector and screen; exact size of screen to be covered, and make of projector.

To enable intending purchasers to test the excellence of our lenses we are prepared to send any lens on 7 days' free trial.



Taken with a Dallmeyer Lens





Dallmeyer Series XII. Kinematograph Projection Lenses have been designed to project a picture with critical definition over the entire screen. They are made of British Optical Glass of exceptional transparency and great durability. Mounted in nickelled tubes, they fit the normal size of rack mount fitted to the majority of projectors.

Owing to the absence of a central stop and the resulting large aperture, the picture projected is very much brighter than can be obtained with an ordinary lens.

Colour and distortion have been entirely eliminated and the photographic quality of the original Kinematograph film is in no way affected when a Dallmeyer Lens is used.

The mathematical calculations which precede the making of every batch of Dallmeyer Lenses, and the factory organization, secure that every lens is up to standard.



## DALLMEYER KINEMATOGRAPH PROJECTION LENSES

SERIES XII.

Standard Size. Small Diameter.

Focal Length	F Value	Price	Outside diam.
2 inches	F 2.8	£6 12 0 each	1'68 inches or 42'6 $\frac{m}{m}$
2 $\frac{1}{2}$ "	F 2.8		
2 $\frac{3}{4}$ "	F 2.8		
3 "	F 2.2		
3 $\frac{1}{4}$ "	F 2.3		
3 $\frac{1}{2}$ "	F 2.5		
3 $\frac{3}{4}$ "	F 2.7		
4 "	F 2.9		
4 $\frac{1}{4}$ "	F 3.1		
4 $\frac{1}{2}$ "	F 3.2		
4 $\frac{3}{4}$ "	F 3.4		
5 "	F 3.6		
5 $\frac{1}{2}$ "	F 4		
6 "	F 4.3		
6 $\frac{1}{2}$ "	F 4.7		
7 "	F 5		

Metal Caps to fit front and back cells, 6/- per pair.

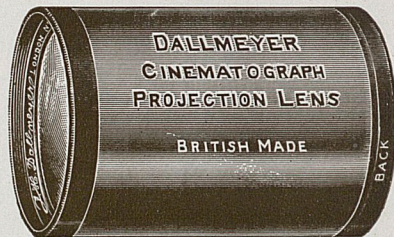
Any foci not listed above made specially to order, 15/- extra.



Dallmeyer Series XIV. Kinematograph Projection Lenses are equal in all respects to the small diameter Series XII. lenses, but owing to their large glass diameter the picture projected is approximately three times as brilliant as that given by an ordinary lens.

In view of the modern improvements in illumination, such as the large size of arc now available, we have been able, by increasing glass diameter, to take full advantage of the newer conditions and thus to effect a considerable saving in current, and to secure enhanced brilliancy of the picture projected without detriment to the defining power of the lens.

We specially recommend the Series XIV. large diameter Projection Lenses for long throws, and for combating the effect of fog or smoke in the Theatre. Where coloured films are used their superiority in illumination is most apparent.



## DALLMEYER KINEMATOGRAPH PROJECTION LENSES

### SERIES XIV.

Standard Size. Large Diameter.

Focal Length	F Value	Price	Outside diam.
3 inches	F 2.0	£11 0 0 each	2.07 inches 52 mm.
3 $\frac{1}{4}$ "	F 2.0		
3 $\frac{1}{2}$ "	F 2.0		
3 $\frac{3}{4}$ "	F 2.1		
4 "	F 2.1		
4 $\frac{1}{4}$ "	F 2.4		
4 $\frac{1}{2}$ "	F 2.4		
4 $\frac{3}{4}$ "	F 2.7		
5 "	F 2.7		
5 $\frac{1}{2}$ "	F 2.9		
6 "	F 3.2		
6 $\frac{1}{2}$ "	F 3.3		
7 "	F 3.4		

Metal Caps to fit front and back cells, 7/- per pair.

Any foci not listed above made specially to order, £1 0 0 extra.





## THE USE OF A PROJECTION LENS

The use of a Kinematograph Projection Lens is to transfer to the screen a highly magnified image of the transparency on the Kinematograph Film. Notwithstanding the enormous increase in size, there must be no loss of the original picture's Photographic quality.

In order to project a brilliant and well-defined picture, with the minimum current, the projection lens must be capable of utilizing the maximum amount of light from the illuminant. Dallmeyer Lenses are specially constructed with a large glass diameter at the back in order to attain this end, and are made of pure white glass of the best optical quality.

In use the illuminant should be placed as near the condenser as the clearness of the disc projected will allow, and the lamp house drawn away from the gate until a spot of light slightly larger than the gate aperture is obtained.

We are at all times pleased to give expert advice on matters relating to the optical side of Kinematograph Projection, and any communications forwarded will receive immediate attention.



## The Opinion of one of the many users of **DALLMEYER PROJECTION LENSES**



Gaiety Theatre, Birmingham,  
6 March, 1920.

"I am in receipt of your two 5.75" Series XIV Projector Lenses and am delighted with the wonderful effect. We always held a reputation for a clear picture, but the effect given now is past explanation. Only those projectors fitted with the above lenses can claim absolute perfect pictures."

G. H. SMITH.





The new Dallmeyer "Pentac" Anastigmat Lens having an aperture of F/2.9 creates a new standard in lenses of extreme aperture.

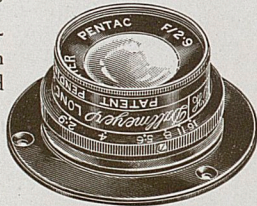
The "Pentac" is the only anastigmat lens produced having so large an aperture, and possessing such remarkable brilliancy and perfect corrections.

The field is exceptionally flat and the definition is critical to the extreme corners of the film.

The aperture F/2.9 is approximately 50% more rapid than the usual F/3.5 lens fitted to Kinematograph Cameras, with the result that films can be taken under most unfavourable conditions of lighting. This extreme aperture has been obtained without any loss of definition or the usual superb optical properties generally associated with the name of Dallmeyer for the last 60 years.

The "Pentac" can be supplied in a well-designed rigid or focussing mount, and is easily fitted to all types of Kinematograph Cameras.

A special series of "Pentac" Lenses are manufactured and supplied in plain barrel for projection purposes in focal lengths up to and including three inches.



## DALLMEYER "PENTAC" ANASTIGMAT LENS

Patent applied for, L. B. Booth, M.A., F.R.A.S., F.O.S.

F/2.9

SERIES XIX. For taking the Film.

No.	Focal Length	Iris Mount	Focussing Mount
1a	1½"	£8 15 0	£10 0 0
1	2"	£8 15 0	£10 0 0
2	2½"	£9 15 0	£11 0 0
3	3"	£10 10 0	£11 15 0

Special Mounts to Order.

SERIES XX. For Projection.

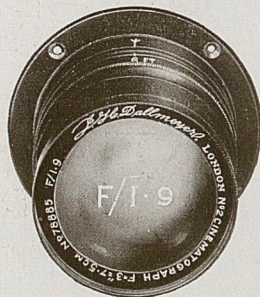
Focal Length	F. Value	Price	Outside Diam.
1½"	F/2.9	£8 10 0	1.68 inches or 42.6 <sup>1</sup> / <sub>16</sub> "
2"	F/2.9	£8 10 0	
2½"	F/2.9	£9 10 0	
2¾"	F/2.9	£9 17 6	
3"	F/2.9	£10 5 0	



Dallmeyer Kinematograph Taking Lenses are supplied in special focussing mounts fitted with iris diaphragm.

The No. 2 Dallmeyer Kinematograph Taking Lens, working at an aperture of F/1.9, is the most rapid lens regularly made for any class of work in the world. At this enormous aperture exposures may be reduced to one-quarter that necessary with the lenses ordinarily fitted to Kinematograph Cameras. This lens is invaluable for taking films indoors and for outdoor work late in the evening, when an ordinary lens would be useless.

No.	Focal Length	Aperture	Price, Focussing Mount
2	3"	F/1.9	£11 10 0
3	3"	F/2.4	£8 15 0
6	4"	F/3	£8 15 0
7	5"	F/4	£8 15 0

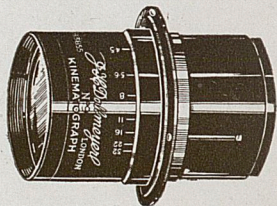


Taken with a Dallmeyer Lens



The "Dallon" Kinematograph Telephoto Lenses, which are entirely new in design, are the smallest and most portable fixed focus anastigmat telephoto lenses manufactured. They are perfectly corrected for astigmatism, colour and distortion, and films taken with them are critically sharp to the extreme corners.

The "Dallon" is conveniently mounted in an aluminium helicoidal focussing mount and is complete in itself. It is as simple to use as an ordinary lens. Shutter speeds are the same as for all other lenses of the same aperture, *i.e.*, F/4.5 and F/5.6 respectively, but the size of the image is about double. That is to say, films of a horse race taken at a distance of 20 yards with a No. 9 "Dallon," will show the figures the same size as those made at 10 yards with an ordinary three-inch lens.



## DALLMEYER "DALLON" KINEMATOGRAPH ANASTIGMAT LENSES



No.	Focal Length	Intensity	Extension from Back Glass to Film	Price in Helicoidal Mount
9	6"	F/4.5	3"	£11 0 0
10	9"	F/5.6	4½"	£14 0 0
11	12"	F/5.6	6"	£17 10 0
12	17"	F/5.6	8½"	£27 0 0



ILLUSTRATED CATALOGUE

—OF—

DALLMEYER

BRITISH MADE

Photographic Lenses  
and Apparatus

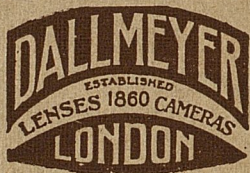
GLADLY SENT ON REQUEST



TRADE MARK

*J. H. Dallmeyer & Co.*  
LONDON.





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BELLOWS, GLOUCESTER 19111