



# INE LENSES

ZEISS IKON AG. WERK KIEL

**Uniform definition over the entire image field  
Brilliant presentation of black-and-white and  
colour films,  
high light transmission and  
even distribution of light  
are the characteristics of good lenses**

**KINOSTAR**

**ALINAR**

**ERNOSTAR**



**lenses which bear the Zeiss Ikon mark  
meet all demands to perfection**

## **THE ERNOSTAR THE ULTRA-HIGH EFFICIENCY LENS**

This latest type of cine-lens by Zeiss Ikon A.G. is of superb quality on all counts: definition, high contrast, image brightness and even distribution of light. Astigmatism and field curvature have been eliminated almost completely with the ERNOSTAR and at the same time chromatic aberrations are so insignificant that a really brilliant presentation of black-and-white and colour films can be obtained.

The number of elements is not a decisive criterion of the quality of a lens; decisive, however, is its optical computation and the precision of its construction. By using new, highly refractive glasses our opticians have succeeded in obtaining the image quality of the normal six-element Gauss lens with only four elements.

Wide screens call for a high light output together with a high resistance to the thermal stress of the lens. For this reason the ERNOSTAR, like the Alinar III, has no cemented surfaces.



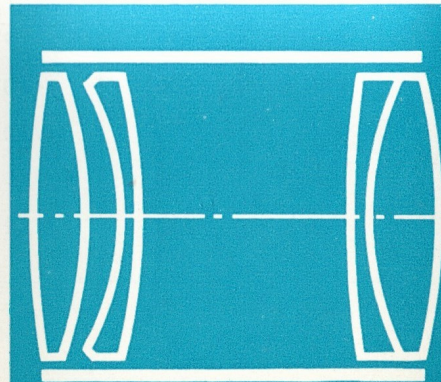
## THE KINOSTAR

is an especially inexpensive four-element lens for standard projection in small and medium-sized cinemas. It combines high speed with excellent contrast and good definition.



Focal lengths, speeds and diameters of Kinostar lenses:

Catalogue No.	f (mm)	Speed	Diameter (mm)
906/3	80	$f/1,9$	62,5
906/4	85	$f/1,9$	62,5
906/5	90	$f/1,9$	62,5
906/6	95	$f/1,9$	62,5
908/1	100	$f/1,9$	62,5
908/2	105	$f/1,9$	62,5
908/3	110	$f/2,0$	62,5
908/4	115	$f/2,0$	62,5
908/5	120	$f/2,1$	62,5
908/6	125	$f/2,2$	62,5
908/7	130	$f/2,6$	62,5



## THE ALINAR III

Wide screen projection calls for shorter focal lengths than standard projection and for this reason demands also increased efficiency. On account of the enormous magnification on the wide screen every lens must have a very good resolving power and should give sharp definition right across the wider angle of view which results from the shorter focal length.

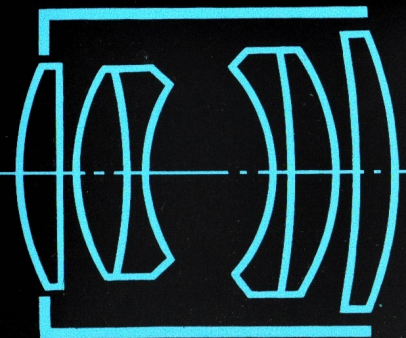
The Zeiss Ikon ALINAR III, with its superb definition in the centre and at the edges, meets these requirements exemplarily and is, therefore, particularly suitable for wide screen projection.

A special advantage of the ALINAR III is its construction from non-cemented elements. It is a well-known fact that lenses of short focal lengths are usually of small diameter. The radiation of the arc lamp will heat up these small lens surfaces considerably and this will endanger all the cemented surfaces which are the inherent feature of most projection lenses. In order to prevent harm to cemented surfaces and avoid consequently deteriorating definition, the ALINAR III is made without any cemented surfaces at all.

Focal lengths, speeds and diameters of the Alinar III lenses:

Catalogue No.	f (mm)	Speed	Diameter
913/10	40	$f/2$	42,5
913/11	50	$f/2$	42,5
913/110	55	$f/2$	42,5
913/12	60	$f/2$	42,5
913/13	65	$f/2$	52,5
913/14	70	$f/2$	52,5
913/15	75	$f/2$	52,5

An intermediate tube for the standard diameter of 62,5 mm is supplied with each lens.



The graduation of speeds in relation to focal lengths has been chosen so that the diameter of the Ernostar front-element is approximately equal to that of the rear-element of the Zeiss Anamorphot 2×63, which prevents loss of light in Cinema-Scope projection.

Focal lengths, speeds and diameters of the Ernostar lenses:

Catalogue No.	f (mm)	Speed	Diameter (mm)
914/12	80	<i>f/1,8</i>	62,5
914/13	85	<i>f/1,8</i>	62,5
914/14	90	<i>f/1,8</i>	62,5
914/15	95	<i>f/1,8</i>	70,63
914/16	100	<i>f/1,8</i>	70,63
914/17	105	<i>f/1,8</i>	70,63
914/18	110	<i>f/1,9</i>	70,63
914/19	115	<i>f/1,9</i>	70,63
914/20	120	<i>f/2,0</i>	70,63
914/21	125	<i>f/2,0</i>	70,63
914/22	130	<i>f/2,1</i>	70,63
914/24	140	<i>f/2,2</i>	70,63

