



125, Bd. Davout - PAI

# The PAN CINOR

## for 16 mm. film

SOM BERTHIOT  
PAN CINOR LENSES

Please note that Paillard Products, Inc. is the sole importer and distributor of these lenses to and within the U.S.A.

### GENERALITIES

The **PAN-CINOR** forms a complete lens with variable focal length which can be fitted on any make of camera with single lens or with turret head like an ordinary one with invariable focal length; however, in the second case, its diametral dimensions require the suppression of the other lenses placed on the turret head. Its fitting has been studied for all different kinds of cameras.

The **PAN-CINOR** is delivered with a coupled view finder giving in all the space of variation of the focal length the field corresponding to each value of the focal length.

### FITTING

To fit a **PAN-CINOR** on the camera, the following operations in the same order as described are necessary :

- 1° Take off the ocular element of the view finder, that is to say the backward part B, slightly unscrewing the moulted nut A (Look at the marks on the plan).
- 2° Screw on the camera the **PAN-CINOR** on which remains fixed the front part of the view finder.
- 3° Correct the orientation if, when the **PAN-CINOR** has been screwed perfectly, the axes of the **PAN-CINOR** and the view finder are not exactly in the same horizontal plan, the camera being upright. This result is obtained when loosening first the three screws E placed on the backward crown D carrying the engraved apertures, then by turning the front part of the **PAN-CINOR** without loosening the backward part fixed on the camera, finally by tightening the three screws E.
- 4° Fit the backward part of the view finder and fix it thoroughly by tightening the moulted nut A.

The **PAN-CINOR** is now ready for the filming.

### DESCRIPTION

The **PAN-CINOR** carries a ring of focusing scales F from 1 m 80 to infinity, according to the distances from the camera to the subject, distances carefully taken from the film.

It presents too a moving index G attached permanently to the variable apertures and moving in front on an engraved scale divided from 2,8 to 22.

Besides those two organs, the **PAN-CINOR** includes a special regulating apparatus making possible to obtain the variation of the focal length of the optical combination in the limits of 20 to 60 mm and this without any changing of the focusing nor the aperture.

The commanding ring H of the focal lengths is divided 5 by 5 mm from 20 to 60 mm and moves before a fixed mark J placed on the top part of the lens.

The rotation of this ring is helped by a rod K that must be screwed on the **PAN-CINOR** in one of the two holes especially placed on its periphery. The total amplitude of variation of the focal length is limited by the thrusts L.

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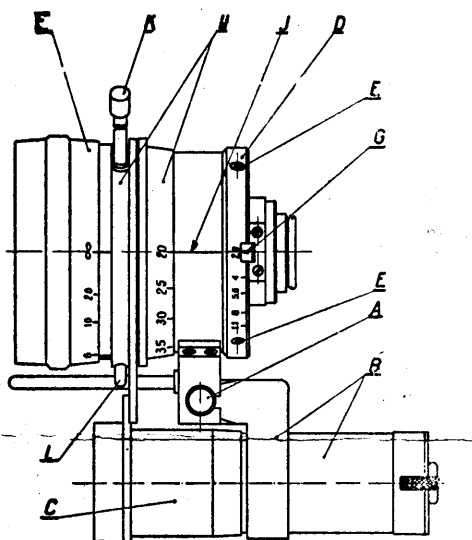
This operation commands at the same time the lengthening or the shortening of the view finder and modifies in consequence its field in correspondence with the focal length **PAN-CINOR**.

## USES

The filming through **PAN-CINOR** requires absolutely the use of a stand.

Beautiful effects of travelling may be obtained in combining in the course of the same scene, successively or simultaneously the panoramic and the optical travellings, this last one being obtained by a continuous variation of the focal length.

Particularly, an interesting and easy effect can be obtained, through the coupled view finder, by the accompanying travelling : whilst the subject comes to the camera or walks away, the use of the variable focal length keeps him in invariable dimensions (on the screen).



f	angles
20 mm	35°
25 mm	27°45'
30 mm	23°
35 mm	19°45'
40 mm	17°15'
45 mm	15°15'
50 mm	13°45'
55 mm	12°30'
60 mm	11°30'

For a moving subject, if the distance from the camera does not vary between too large limits, the focusing can be maintained on the distance that exists between the subject and the camera when it is filmed at the position telephoto-lens ( $f : 60$  mm); moving progressively to the position of short focus lens ( $f : 20$  mm) the increase of the depth of focus, by diminution of focal length permits to keep the subject in the sharp zone.

It must however be specified that the depth of focus is the one of an ordinary lens with equal aperture and focal length.

In any case where travelling effect is required, it is recommended to carry out the variation of the focal length slowly and without jerks.

The opposite list gives the correspondence between values of the **PAN CINOR** focal length and of the picture field angle for the 16 mm film.

## ACCESSORIES

**Close up lenses.** - There are two close up lenses :

- One of 1 m 50 focal length allowing focusing from 1 m 50 to 0 m 75;
  - The other of 0 m 75 focal length allowing focusing from 0 m 75 to 0 m 50;
- ~~The combination of those two close up lenses permits focusing between 0 m 50 and 0 m 38.~~

**Filters.** - Coloured filters can be delivered (on request as the close up lenses), in the more often used colours.

## NOTA

The attention of the owner of **PAN-CINOR** is called to the two following points :

— The **PAN-CINOR** gives the amateur the possibilities of new effects which cannot be obtained with fixed focal length lenses, but does not supply the place of the latter.

These are indeed especially studied, to realize the best optical quality in regard to their own focal length : on the contrary, the **PAN-CINOR** has been calculated and adjusted on purpose to share, for the best, the quality on the whole of focal lengths which spread between the extreme limits.

— The **PAN-CINOR**, because of its relatively high weight comparatively with those of the ordinary lenses, must be fitted on the camera only after the amateur has made himself sure of the realisation of any operations :

it is first necessary that the play existing possibly in the axis of the turret head does not cause the turret head to gape, even slightly.

It is necessary, at the same time, that the turret's stop spring should be sufficiently powerful to prevent the rotation of the turret head itself whenever the rod operating the variation of the focal length is worked. — It is advisable, in this particular case, to block up the turret head with the special lens cap that can be screwed in the place of the lenses.

In doubtful case, it is advisable to consult SOM about the best ways to use.