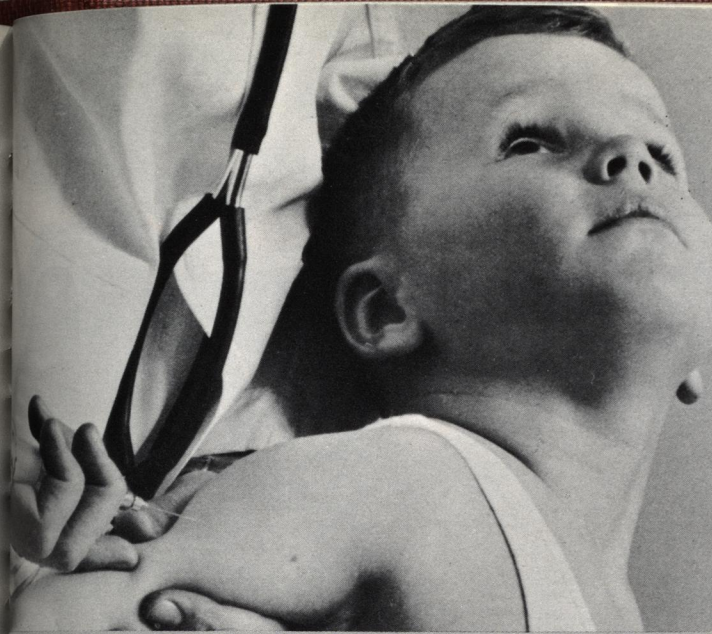
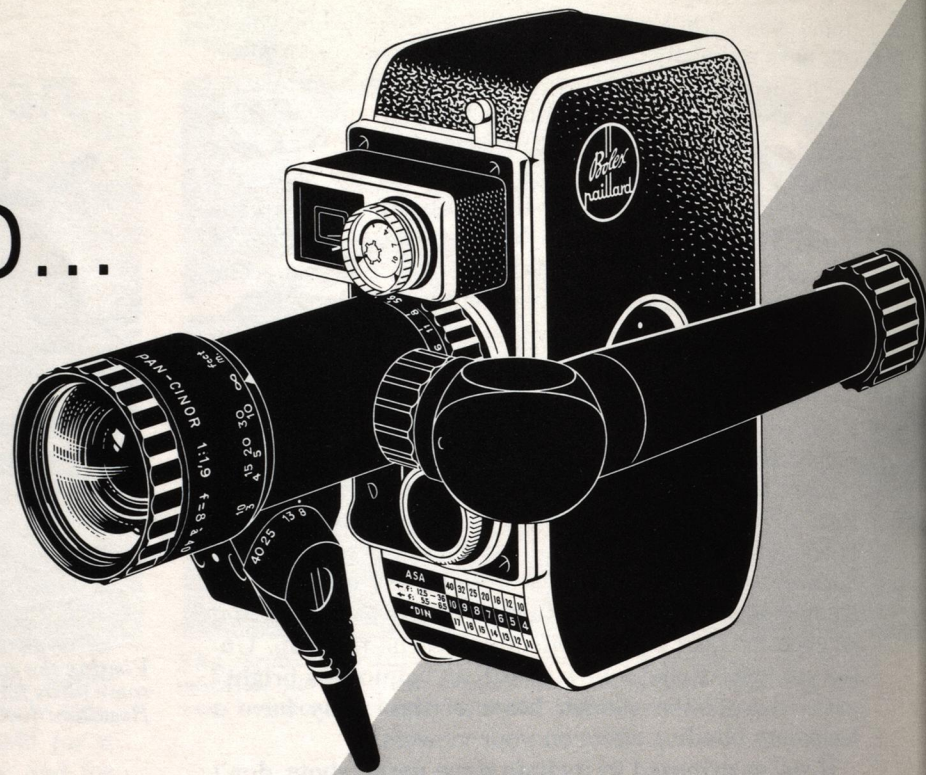


Pan Cinor 40...

The Fabulous Zoom



A brand new era in 8mm zoom photography is being ushered in with the introduction of the new Bolex Zoom Camera #40, featuring the new Pan Cinor 40 zoom type lens. In addition to offering the longest continuous zooming range in the 8mm field—from 8mm wide angle to 40mm telephoto, an unprecedented zooming ratio of 5:1—it also offers corner-to-corner sharpness even at its largest opening of $f/1.9$. Framing and zooming through its through-the-lens reflex viewing system is extremely easy and parallax-free. The lens may be focused from infinity down to $3\frac{1}{2}$ feet, or even closer with standard Series VI close-up lens.

The through-the-lens reflex viewing system offers a brilliant picture, which remains bright even when the diaphragm is closed down. The reflex housing extends beyond the rear of the camera, making viewing with either the left or right eye easy. The viewfinder's eye piece is adjustable to suit individual eyesights, and the large rubber eyecup permits convenient and easy viewing even for persons wearing eyeglasses.

Although zoom lenses have been around for some time, critical film makers have made relatively little use of them, believing with some justification that zoom lenses are never as sharp as regular fixed focal length lenses. With the advent of the Pan Cinor 40 there is no need to compromise on corner-to-corner sharpness.

Designing a zoom lens is a difficult task. A regular lens needs to be corrected for sharpness, color and distortions at only one focal length. But a zoom lens has many dif-

ferent focal lengths and the designer must preserve all corrections at all focal lengths within the zooming range.

This cannot be done with the usual number of four to six elements of a regular lens. A quality zoom lens requires a unique combination of a large number of lens elements, roughly equal to the total number of elements that make up a quality wide angle, normal, and telephoto lens of the same speed. The design of the Pan Cinor 40 was worked out with the aid of France's most modern electronic computer. The large number of elements is one of the reasons why the price of a quality zoom lens is about the same as the combined price of the three basic lenses.

The choice of two zooming levers, combined with the extremely smooth back and forth zooming motion, instead of the old fashioned rotating motion, allows the movie maker to hold the camera amazingly steady while changing focal lengths.

The manual zooming method is necessary for 8mm movies because the lens can be set instantly at any desired focal length, and allows backward or forward zooming at will. Also the operator can zoom fast or slowly, or even change the rate of zooming in order to keep up with a moving subject. The two zooming levers supplied with the camera—one short and one long—makes fast or slow zooming convenient.

Because of the wide range of focal lengths a zoom lens is required to cover, a quality zoom lens must be in a focusing mount. Lenses in a fixed focus mount do not permit zooming to distances closer than eight feet outdoors, or 25 feet indoors where the lens must be used at larger f openings.

Thus you could not possibly zoom in for a close-up of a child's face, or of a birthday or a wedding cake. A fixed focus zoom lens loses its most important use, that of zooming in for really exciting close-ups.

The Pan Cinor 40, on the other hand, can be focused accurately at any distance from $3\frac{1}{2}$ feet to infinity, to permit zooming into an area as small as four inches across, even when the lens is wide open at $f/1.9$. For even closer shots a standard Series VI close-up lens can be fitted into the filter adapter and sunshade combination supplied with the Pan Cinor 40.

Focusing with a zoom type lens must be as accurate as with a telephoto lens, and for this reason one version of the Pan Cinor 40, the Pan Cinor 40R, is equipped with a built-in split-image rangefinder.

Since the Pan Cinor 40 and the 40R come with standard "D" mount, they can be removed from the camera and standard 8mm lenses may be used when necessary.

The Bolex Zoom Camera #40 consists of the twin-lens turret B-8SL and the Pan Cinor 40 and is priced at \$272.50. The same zoom camera with the Pan Cinor 40R (split-image rangefinder) is listed at \$312.50. ■

Here is a dramatic illustration of the 5:1 zoom ratio. For really exciting close-ups at $3\frac{1}{2}$ feet (or even closer), indoors or out, and for corner-to-corner sharpness at the widest lens opening, there is nothing in the world like a Pan Cinor 40.

