

Auricon

AUTOMATIC-PARALLAX CAMERA VIEW-FINDER

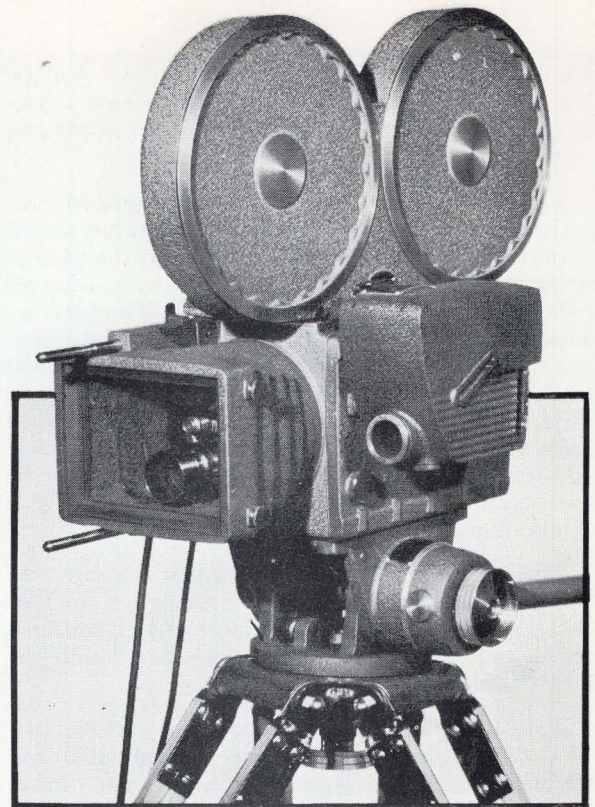
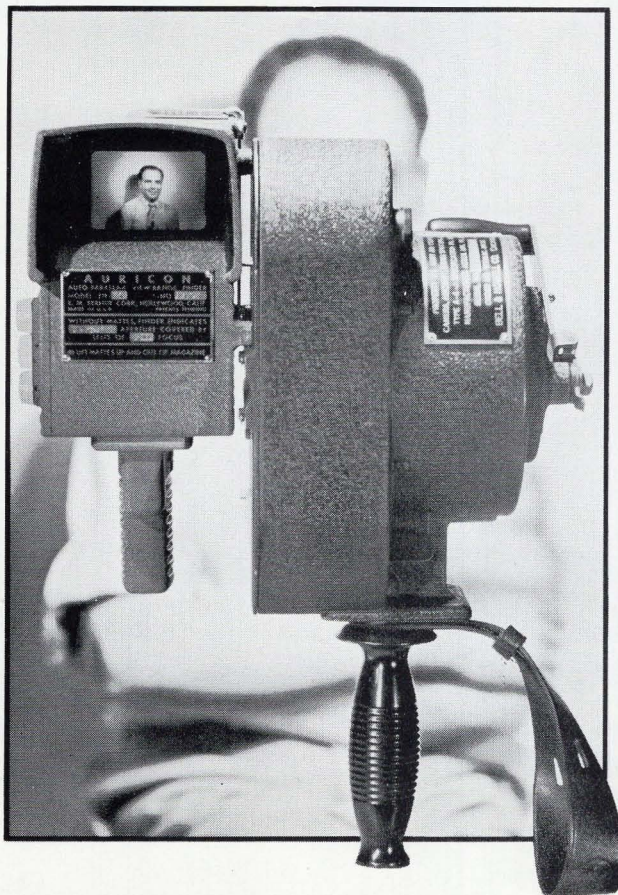
Model EIF-20

(Reprinted from "American Cinematographer" Magazine)

Designed to operate in the same manner as the newly developed automatic aerial machine-gun sights, the Auricon Automatic-Parallax Camera View-Finder furnishes the cameraman, while he is shooting a motion picture, with an exact image of that picture as it will later appear projected on the screen.

Originally designed and manufactured for the U.S. Armed Forces, this Finder answers a need long felt by cameramen engaged in all kinds of work and using all types of equipment because it is no longer necessary to "hope for the best" after that first inadequate peep through the lens, or to try to follow action through a finder that is known to be "just a bit off."

Incorporating the latest developments in the science of optics, this first really modern finder is completely accurate and operates with the utmost simplicity. It provides an erect, needle-sharp image framed on ground-glass, right side up, and correct right-to-left, located at the front of a deep shadow



▲ "Pro-600" Camera with Automatic-Parallax Finder provides cameraman with large upright finder image, correct right-to-left, which can be viewed with both eyes at any convenient distance behind the camera.

box for maximum contrast and visibility. The finder image is so clear that a newspaper headline can be read with the finder at a distance of fifteen feet, or an airplane can be accurately located while just a speck in the sky. There is no dilution of the image as seen in the finder, and no "ghosts" or multi-reflection in the image, nor does the cameraman see his own reflection in the glass when working in bright sunlight. The Finder combines automatic parallax compensation with a view-range finder which enables the cameraman to measure the distance from camera to subject, by focusing the subject in the Finder.

When shooting a scene, the cameraman can place his forehead directly against the Finder, and he will then be viewing the finder image at an optical distance of 10 inches (The Finder itself measures only 6 inches long). On the other hand, he can move back if he so desires, and look at the image at any convenient distance without regard to any exact eye position. The framing of the image in the Finder does not depend on the viewing position of the eye, and both eyes can be used to look at the finder image at all viewing positions.

Under field conditions, using the Auricon Finder does not blind the cameraman to what is happening

◀ Photograph looking through the Auricon Finder, showing large needle-sharp image, upright and correct right-to-left. Focusing this image in the Finder automatically corrects parallax.

around him, as is the case with "peep-hole" finders. He can operate the camera and finder about a foot in front of him and thus see above the camera and to right and left, with both eyes open.

The difference in viewpoint (or displacement) between camera and finder lenses, commonly called parallax, is automatically compensated for so that whatever is sharply focused in the finder is also corrected for parallax in the finder frame. The parallax adjustment is done optically inside the finder allowing the external finder casing to be solidly attached to the camera body. This provides a rugged and dependable arrangement and the lineup between camera and finder cannot be thrown out of critical adjustment by accidental blows or shocks to the finder casing or camera. This is a patented Auricon Finder feature.

The automatic-parallax adjustment is controlled by a cam-plate located inside the finder casing. This cam-plate determines the displacement distance between camera lens and finder lens, for which the finder automatically compensates.

The auto-parallax adjustment on the Auricon Finder has been mathematically worked out to five decimal places and is more reliable than former methods of cut-and-try parallax calibration accurate at only a few points.

The Finder can be used with 16mm cameras such as the Filmo, Victor, Bolex, etc. For the Kodak Cine-Special, a finder mount has been designed which enables magazines to be changed without disturbing the finder.

The finder can be furnished to cover 35mm sound or silent camera or projector apertures, or 16mm apertures, either camera or projector. Except for special applications, a finder covering the sound-projector aperture would be used.

For 35mm cameras the finder covers lens fields from a 35mm wide angle (which is the full frame shown in the finder), 40mm, 2-inch, etc., up to the 6- and 10-inch telephoto lenses, by means of inserted mattes.

When the finder is used with a 16mm camera it will cover lens-fields ranging from the 17.5mm wide-angle lens up to the 4-inch telephoto lens.

A magazine to carry up to 6 mattes is located in the back of the finder. A special device retains the mattes in the magazine chamber, yet an easy pull up-and-out releases the matte to be used. Another device incorporated in the matte slide at the ground-glass viewing screen, makes it impossible to insert mattes upside-down. This prevents errors when using mattes which have been individually cut to match telephoto lenses which may not center exactly on the camera frame.

This new Auricon Finder is as unique in its field as the photo-electric cell exposure meter was when originally introduced. For the first time a camera finder is available which is designed and built as a precision instrument. It is a definite contribution for better pictures on the motion picture screen, and towards elimination of trouble and inaccuracy arising from the inadequate finders available until now.

AURICON

"SUPER 1200"

Auricon "Super-1200" Camera for recording 33 minutes of continuous 16mm Sound-On-Film talking pictures, with Automatic-Parallax Finder, Model EIF-20, for professional use.

Auricon
Hollywood

Litho in U.S.A. K#3172

