

DIRECTIONS FOR OPERATING

Eastman

Altigraph Camera

*Model B-1*

EASTMAN KODAK COMPANY  
*Folmer & Schwing Department*  
ROCHESTER, N. Y., U. S. A.

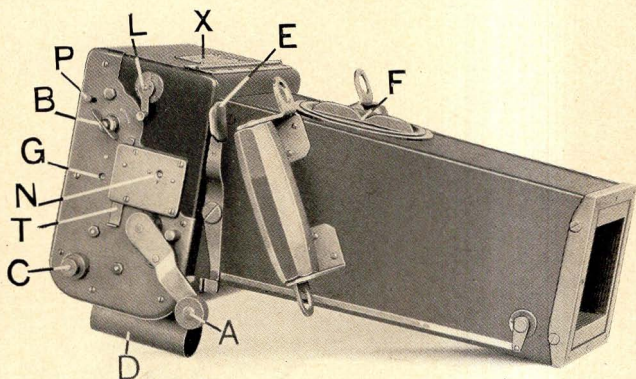
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ALTIGRAPH CAMERA  
*Model B-1*

FIG. 1

# Eastman Altigraph Camera

## *Model B-1*

For Film Only

**T**HE operation of the B-1 Altigraph Camera is very simple and exceptionally rapid. The camera is sighted and a slight pressure upon the thumb lever release opens the safety shutter protecting the lens, and releases the shutter. One short, quick turn of a lever advances the film and resets the shutter. This operation can be rapidly repeated until 12 exposures have been made. The roll of No. 60 Eastman Daylight Loading Film is then rewound upon the original spool, removed from the camera and replaced by a new roll of film.

**THE LENS** The 10" Hawk Eye Aerial Lens fitted to the camera has a fixed aperture of f.4.5. The standard aerial mount for this

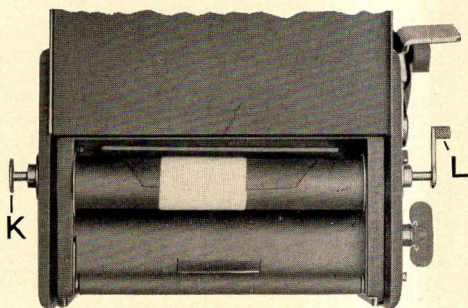


FIG. 2

lens has a running thread and set screw permitting accurate adjustment at infinity focus.

**THE SAFETY SHUTTER** A safety shutter is located in front of the lens as a protection against exposure of the lens to fog, mist or dirt, often resulting in impairment of the photographic record, also to prevent fogging of the film when the shutter is reset. Pressure upon the thumb lever release E, Figures 1 and 3, causes this safety shutter to open just before the exposure is made. This safety shutter may be removed by releasing the screws on each side to permit readjustment of focus or cleaning of the front element of the lens. Removal of the screw cover of the hand hole F, Figure 1, permits easy access to the rear element of the lens.

**THE FINDER** A direct vision tubular finder D, Figure 1, having intersecting vertical and horizontal wires, is used for centering the subject with the recording plane.

**THE SHUTTER** A Graflex Focal Plane Shutter having a one-piece curtain with a metal bound fixed aperture  $\frac{3}{8}$ " wide, is built into the body of the camera. The shutter curtain operates as closely as possible to the recording plane and permits the lens to work at its

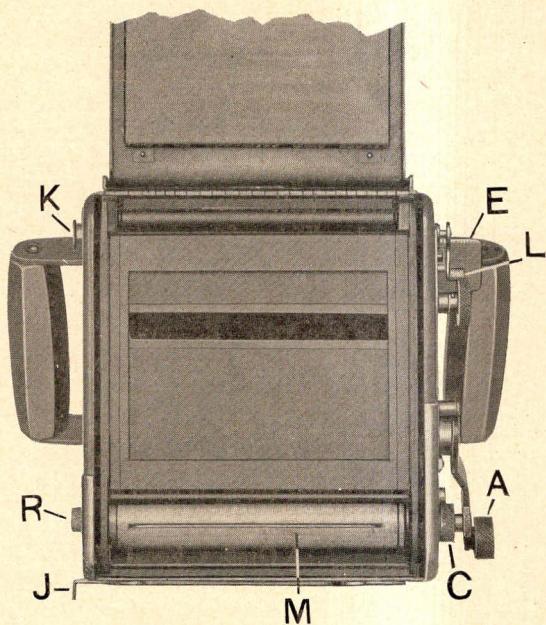


FIG. 3

highest efficiency throughout the period of exposure. The speed of the exposure, or the rapidity with which the aperture in the curtain passes across the recording plane, is regulated by adjusting the tension or pull on the curtain.

## THE SHUTTER SPEED PLATE

The metal plate X, Figure 1, attached to the top of the camera, gives the approximate shutter speeds in fractional parts of seconds, obtained by using the various tension numbers, 1 to 10.

F & S AERO CAMERA										
MODEL A1										
TENSION	1	2	3	4	5	6	7	8	9	10
SPEED	120	155	190	225	260	295	330	365	400	435
FOLMER & SCHWING DIVISION										
EASTMAN KODAK CO.										
ROCHESTER, N.Y., U.S.A.										
15416										

## REGULATING THE SHUTTER SPEED

Tension on the curtain is increased by turning the key B, Figure 1, to the left until the tension number indicating the required shutter speed is registered at the aperture G. Example:  $\frac{1}{2 \cdot 30}$  of a second, set tension at 8. The shutter speed is decreased by pressing forward on the escapement P until the lower tension number required is registered at G.

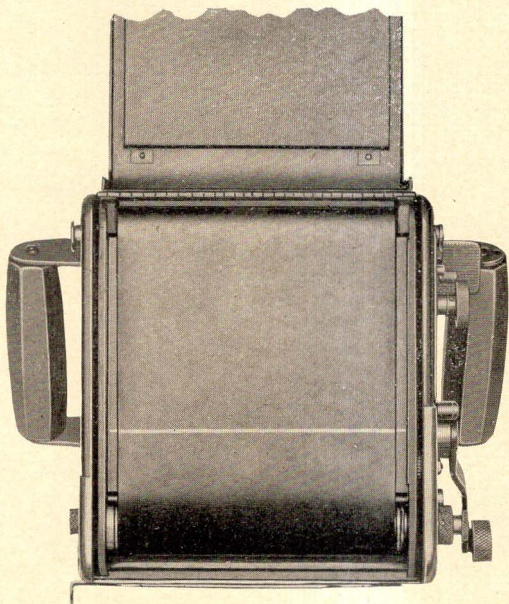


FIG. 4

## LOADING THE CAMERA

Slide the lock J, Figure 3, at the bottom of the camera, to the left, and raise the hinged back. Then draw out the spool center K and rewind crank L, Figures 1 and 2. Place the roll of No. 60 Eastman Aero Film in the upper compartment with the *slotted end* of the spool toward the rewind crank L; depress the roll of film now resting on the tension springs, until the spool center K and rewind crank L can be pressed into engagement with the ends of the spool.

## THE CLUTCH

Turn the outer milled head of the clutch C, Figures 1 and 3, to the *right*, until it is in firm engagement with the inner, larger milled head. Then turn the *locked clutch C* to the *left* until the largest side of the slot in the roller M, Figure 3, is in position to receive the end of the black paper protecting the roll of film. Then break the white paper seal on the roll of film and draw the black paper down over the rollers at the top and bottom of the recording plane and pass the end through the slot in the roller M. Turn the clutch C to the *left* and wind the black paper upon the roller M, adjusting the paper so that it runs perfectly true between the lines scribed on each side of the back frame.

Continue winding until the horizontal white line on the black paper is in alignment with the two short lines scribed on the back frame, Figure 4. Then close and lock the hinged back of the camera.

Set the retard button R, Figure 3, at "On." This locks the roller M, preventing rebound of the film on roller as the camera is operated.

**SETTING THE FILM FOR EXPOSURE** Swing the lever A, Figure 1, *backward as far as it will go* (to the metal stop) and release the shutter with pressure of the thumb on the release lever E. Repeat this operation 5 times, which will wind off the black paper protecting the film and advance the film into position for the first exposure.

**CAUTION** When the lever A is operated, the rewind crank L should rotate to the left, otherwise the film is not spooling upon the roller M, indicating that the clutch C has not been properly locked.

**MAKING THE EXPOSURE** After the camera has been loaded and the film and shutter set in position for exposure with the lever A, the camera is sighted and the exposure made by a forward pressure upon the

thumb release lever E. The safety shutter automatically opens just before the shutter curtain is released and then instantly closes.

#### CHANGING THE FILM

The film is advanced into position for the next exposure with the same action of lever A that sets the shutter.

#### EXPOSURE TALLY

Set the tally N, Figure 1, by pushing up on T until 1 is registered at the aperture. As the camera is operated the number of exposures made will be automatically registered up to the capacity of each roll of No. 60 Aero Film—12 exposures.

#### REMOVING EXPOSED FILM

Hold the rewind crank L and unlock the clutch C by turning the small outer milled head to the left. Then turn the line on the button R to "Off" which permits rewinding the exposed film back upon the original spool with the crank L turned in the direction of the arrow. Be sure and fully rewind the exposed film and black paper upon the original spool, which is indicated when the outer member of the clutch C ceases to revolve. The camera back is then opened, the exposed film removed and sealed.

Excellent control over the camera is provided by the two side grips and the position of the thumb lever shutter release.

Two lugs on each side, which are a part of the side grips, serve for attaching shoulder straps, when the conditions require it.

