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**Kodak**

AUTOMATIC  
**35B**

CAMERA

*Butkus. us*

With Kodak Ektanar Lens, *f/2.8*

## Your new Kodak Automatic 35B Camera...

gives you correct exposure *automatically*—for daylight and flash pictures. In addition to smart modern styling and rugged, reliable Kodak construction, its features include:

**Automatic Daylight Exposure**—built-in photoelectric exposure control sets the correct lens opening for you. Because you don't have to determine exposure, it makes shooting easier, surer.

**Automatic Flash Exposure**—eliminates computing and assures good flash exposure. Just set the focus (5 to infinity), and the lens automatically adjusts to the correct opening.

**Automatic Zone Minder**—shows in the viewfinder if the lens is set for CLOSE, GROUP, or SCENE.

Before making any important pictures—of a trip or some special event—it is well to shoot a magazine of film outdoors, and indoors with flash. This will give you practice in camera operation and provide a check on your equipment.

**Kodak**  
AUTOMATIC  
**35B**  
CAMERA

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## KODAK FILMS

Use Film Size  
No. 135 Magazines

### **Kodachrome Film**

For color transparencies, which can be projected on a screen or from which prints or enlargements can be made.

Two types are available: (1) The Kodachrome Film which has been supplied for many years—(2) Kodachrome II Film, which is faster, with improved sharpness and image quality. Either film, 20 or 36 exposures.

- Use **Kodachrome Film for Daylight** for daylight pictures.
  - Use **Kodachrome Film, Type F**, for flash pictures with **clear** bulbs.
- Use **Kodachrome II Film for Daylight** for both:
- pictures in daylight
  - and flash pictures with **blue** flash bulbs.

### **Kodak Ektachrome Film**

Like Kodachrome, Ektachrome Film produces lifelike color transparencies for projection or from which color prints and enlargements can be made. The speed of this film, however, is faster than both Kodachrome Films. You can process Ektachrome film yourself or have it processed as described below.

Use **Kodak Ektachrome Film for Daylight** for exposure in daylight, and **Kodak Ektachrome Film, Type F**, for pictures with clear flash bulbs. 20 exposures.

### **Kodak High Speed Ektachrome Film**

With this new, extremely fast color film you can stop action in low illumination and, at the same time, get faithful color rendition with excellent definition. Available in Daylight Type and Type B. 20 exposures.

**Kodacolor Film**

The color film for color prints or transparencies. Expose the same roll of film by daylight or clear flash. See below for processing. Enlargements as large as 11 by 14 inches can be ordered through your photo dealer. 20 exposures.

Your dealer can arrange to have the color films processed by Kodak or any other laboratory offering such service. Some laboratories, including Kodak, also provide direct mail service whereby you can mail exposed color film to the laboratory and have it returned directly to you. See your dealer for the special mailing devices required. **Do not mail film without an overwrap or special mailing device intended for this purpose.**

**Kodak Panatomic-X Film**

The film to use for big enlargements when high film speed is not a factor. It combines exceptionally fine grain and the ability to record extremely fine detail. 20 or 36 exposures.

**Kodak Plus-X Pan Film**

An excellent high-speed film for general outdoor and interior use. The low graininess and high resolving power permit high-quality enlargements. 20 or 36 exposures.

**Kodak Tri-X Pan Film**

An extremely fast panchromatic film of moderate contrast, wide exposure and development latitude, and color sensitivity suitable for flash pictures. 20 or 36 exposures.

# LOADING

Always in Subdued Light



**1**  
Open the back by pushing the  
LATCH BUTTON upward.



**2**  
Push out the REWIND KNOB.



**3**  
Insert the film magazine in the recess  
next to the knob. Push the rewind  
knob all the way in, turning it  
slightly if necessary.



#### 4

Swing out the RAPID WIND LEVER until the opening in the take-up drum is up.



#### 5

Insert the end of the film into the opening in the take-up drum. Swing out the rapid wind lever until the lens on the take-up drum engage film perforations and the film is wound halfway around the drum. Close the back and make sure that it is latched.



#### 6

Swing out the rapid wind lever until the mechanism locks—this takes several full strokes of the lever. The first frame of film will then be in position and the EXPOSURE COUNTER will be automatically set at "1." The counter will move a mark each time the film is advanced. It will show the number of exposures made.

**Note:** Neither the exposure counter nor the shutter release will operate unless the film for exposure "1" is in position.



## UNLOADING

Always in  
Subdued Light

After the 20th or 36th exposure and before the back is opened, it is necessary to rewind the film into the magazine.

Pull the rewind **KNOB** until you feel resistance (about  $\frac{3}{8}$  inch).\* Push the rewind **RELEASE** in its slot in the direction of the arrow and hold the rewind release while turning the rewind knob clockwise to wind the film toward the magazine. While film is being rewound, a small, round signal window on the bottom of the camera flashes alternately red and black. The film is completely rewound when, while turning the rewind knob, the signal window remains either red or black. Open the camera back; this automatically returns the exposure counter to E (Empty). Pull out the rewind knob all the way and remove the film magazine.

\*Film will not rewind if the knob is pulled out too far. In this case, push in the knob completely; then pull it out the proper distance as indicated above.



# AUTOMATIC EXPOSURE CONTROL

Daylight and  
Available Light Pictures

**Set Film Speed in ASA Window** The small window, marked ASA, on the top of the camera, must show the daylight film speed (exposure index) of the film in the camera to obtain proper exposure. The film speeds for No. 135 Kodak Films can be found on the two Exposure Data Cards (under the heading ASA) which can be slid out of the opening under the edge of the frame on the back of the camera, or in the instructions packed with the film. For example, the film speed of Kodachrome II Film for Daylight is 25.

Set the film speed by turning the exposure index **KNOB** until the proper film speed appears opposite the arrow in the window, on the top of the camera, marked ASA.



**Set Selector Ring at "DAYLIGHT"** Press the selector ring LOCK and, at the same time, revolve the ring clockwise to snap-lock the green daylight arrow opposite the green triangular INDEX. This automatically selects a shutter speed of 1/80 second.



## DISTANCE SETTINGS



**Handy Zone Focus**—The focusing range of your camera is divided into three subject zones—each represented by a diamond-shaped symbol on the lens mount. The diamond near 4 ft is the setting for CLOSE subjects, the diamond between 8 and 10 ft is the GROUP setting, the diamond between 25 and 50 ft is the SCENE setting. A

“Zone Minder,” built into the viewfinder, shows at a glance which of the three zones is set on the focusing scale. Set the zone focus by rotating the LENS MOUNT until the proper diamond “click-stops” opposite the focus INDEX. For example, the illustration shows the diamond mark for the GROUP zone set at the index mark.

The range of sharpness, which permits these zone settings, depends on the lens opening, as indicated by the red exposure meter NEEDLE, located in the curved window on the top of the shutter housing. The higher the  $f$ /number, the greater the range of sharpness. Zone settings will give acceptably sharp pictures at all three zones with  $f$ /numbers  $f/5.6$  or greater.

**Careful Scale Focus**—(1) When lighting conditions are such that an  $f$ /number less than  $f/5.6$  ( $f/4$  or  $f/2.8$ ) is indicated in the curved window, setting the actual camera-to-subject distance on the focusing scale will give sharper pictures.

(2) With all flash pictures, setting the actual camera-to-subject distance on the focusing scale is necessary for proper focus and essential for proper exposure.

In both these cases, estimate the camera-to-subject distance carefully and rotate the lens mount until the figure representing the camera-to-subject distance is opposite the focus index.

# TAKING PICTURES

Daylight and  
Available Light

1

The daylight film speed (exposure index) of the film loaded in the camera must be set in the window, marked ASA, on the top of the camera.

2

Make sure that the selector ring is locked at DAY-LIGHT.

3

Rotate the lens mount to select the proper focus zone or camera-to-subject distance figure.

# 4

Sight through the viewfinder and compose the picture. Hold the camera close to your eye. Signals, provided in the viewfinder, show: (1) whether the camera is set for "Daylight" or "Flash," (2) if there is sufficient light for proper exposure, and (3) the zone focus setting.

# 5

Hold the camera steady; then press the shutter release all the way down with a slow, squeezing action. If the film has not been advanced to the next frame or if the film leader has not been wound off fully, you cannot press the shutter release.

# 6

To advance the film, swing out the rapid wind lever one full stroke or several short ones until it locks; then let the lever return to its original position.

# 7

After the 20th or 36th exposure, and before opening the camera, the film must be rewound into the magazine. See Unloading, page 8.



## FLASH PICTURES

Flash pictures in black-and-white or color at distances of 5 to 25 feet are easy to make. Just set the focus, and the correct lens opening is automatically set. Flash bulbs are fired when the camera shutter is released.

**Synchronization**—The camera shutter synchronizes flash bulbs, such as the AG-1, M-2, M-5, or M-25, and electronic flash (requiring guide numbers of 35 or higher).

**Flashholders**—The Kodak Automatic 35B Camera was designed to use flashholders with Kodalite fittings such as the Kodalite Midget Flashholder, or Kodak Supermite Flashholder. Attach the flashholder to the camera by inserting the posts of the flashholder in the flash receptacles of the camera; then tighten the flashholder knob. Further instructions are packed with the flashholders.

**Setting the Flash Guide Number**—Flash guide numbers for Kodak films and flash bulbs are printed on the two Exposure Data Cards in the frame on the back of the camera. Select the flash guide number for the film and flash bulb you



are using, then set this number on the camera as follows: Depress the selector ring LOCK and revolve the selector RING counterclockwise until the blue flash arrow snaplocks opposite the proper flash guide number on the lens mount (if impossible to set, change focus setting). A guide number of 70 is set in the illustration.

**Flash Exposures**—The flash exposure information provided in the Exposure Data Cards applies to most flash situations. This information is based on exposures in an average-sized room with medium-light-colored walls.

Occasionally, however, flash pictures are taken under conditions which vary considerably from this standard, and better pictures will result if slight compensations are made. For example: With flash pictures in a small room with very light walls, better pictures are obtained by using the next higher guide number than recommended. Or, in very large rooms or outdoors, use the next lower guide number than recommended.



# TAKING FLASH PICTURES

1

*Attach the flashholder to the camera and insert a flash bulb in the reflector socket.*

2

*Set the Film Speed of the film loaded in the camera in the window labeled ASA. See Exposure Data Cards or film instructions packed with Kodak films.*

*Butkus*

3

*Set the Flash Guide Number—Depress the selector ring LOCK and revolve the selector ring counterclockwise until the blue flash arrow snaps opposite the proper flash guide number on the lens mount. A shutter speed of 1/40 second is automatically set when the selector ring is set for "FLASH."*

4

*Focus the Camera*—Rotate the Lens Mount-Selector Ring combination until the figure representing the camera-to-subject distance in feet (between 5 and 25) is opposite the focus index. Be careful not to depress the selector ring lock while focusing.

NOTE: The focusing scale controls lens openings for flash in the 5 to 25-foot distance range, only. Distance limits at which scale can be set are determined by the guide number.

5

*Aim the Camera*—Look through the viewfinder and compose the picture within the luminous view-frame of the viewfinder. The flash symbol should appear in the base of the view-frame—if not, check the setting of the selector ring.

NOTE: Disregard the possible appearance of the low light signal with flash pictures.

6

*Release the Shutter*—Hold the camera steady and press the shutter release down with a slow, squeezing action to take the picture. If film has not been advanced, or if film leader has not been wound off fully, you cannot press the shutter release.

7

*Advance the Film*—Swing out the rapid wind lever one full stroke, or several short ones, until it locks; then let the lever return to its original position. After the 20th or 36th exposure and before opening the camera, the film must be rewound into the magazine. See Unloading, page 8.

## MORE ABOUT THE EXPOSURE CONTROL

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With the selector ring at DAYLIGHT, the photoelectric meter of the exposure control measures the *over-all* brightness of the light reflected by the subject. Better results, especially with color films, are obtained when using flat or moderate side lighting with the principal illumination coming over your shoulder when taking the picture.

**Scenes lacking great subject contrast:** that is, when the differences in brightness between the dark and the bright areas are moderate, or when very bright and dark areas are of about the same size, but of equal picture interest, use the automatic exposure control *without* modification—as described previously. Most pictures fall into this grouping.

**Scenes with considerable subject contrast:** for example, a person with light-colored clothing against a dark background.

A better exposed picture of the person may be obtained by making a “close-up” reading.

20 Move close to the subject so that the person fills the finder. Press down the shutter release until a slight resistance is felt—about  $\frac{3}{4}$  of the way (not far enough to release shutter); continue to hold the release in this position to maintain the exposure setting, then

step back and press the release down fully to take the picture.

**Modifying the ASA Setting:** You may wish to slightly modify the recommended film speed (exposure index) to achieve a result which is more suitable for *you*. Using a higher speed results in denser transparencies, which some people prefer when using high-wattage projectors and a small screen. A lower film speed gives lighter transparencies, for a low-wattage projector and large screen.

To modify the film speed setting when using filters with black-and-white films, divide the film speed by the filter factor; use nearest film speed number.

## CARE OF THE CAMERA

- Your Kodak Automatic 35B is a fine, ruggedly built camera, but yet a precision instrument. Protect it from dust and dirt and avoid rough handling. Use a rubber syringe to blow out any dust that may accumulate inside the camera. If the lens needs cleaning, first brush or blow away any grit or dust, then wipe the surface gently with Kodak Lens Cleaning Paper. If necessary, use Kodak Lens Cleaner.
- Do not attempt to make any repairs or remove any parts from the shutter, lens, or camera. Never oil the shutter or any other parts of the camera. If you find that the camera requires service, return it to your photo dealer who will have repairs made locally, or send it to the Eastman Kodak Company.

## PHOTO AIDS

**Kodak Automatic 35 Field Case.** This deluxe, top-grain leather case fits your camera and combines practical protection with drop-away front convenience. Openings on the side of the case permit attaching the flashholder with the camera in its case.

**Kodak Filters.** The retaining ring on the lens mount of the camera unscrews to accept Series 5 Kodak Filters and other lens attachments. Use a Kodak Skylight Filter (No. 1A) to add warmth to color pictures taken in the open shade or on overcast days. A Kodak Daylight Filter for Kodak Type F Color Films (No. 85C) converts indoor (Type F) color films for outdoor use. A Kodak Daylight Filter for Kodak Type B Color Films (No. 85B) converts Type B color films for outdoor use. There are also Kodak Filters for black-and-white films.

**Other Lens Attachments.** Kodak Portra Lenses, 1+, 2+, and 3+, Series 5, extend the camera's picture-taking range down to  $9\frac{3}{4}$  inches, lens-to-subject distance, with an approximate field size of  $4\frac{7}{8}$  x  $7\frac{1}{4}$  inches. A Kodak Lens Hood, Series 5, is available.

**Kodak Slide Projectors.** The Kodak 500 Projector, Model B, and the Kodak Cavalcade Projector are compact, portable, ruggedly built projectors that show color slides big, bright, and sharp. The "500" is equipped with Readymatic slide changer or a choice of two other changers. The Cavalcade is completely automatic. Just turn it on, and it

22 does the rest—changes slides automatically.

# DETAILS OF KODAK AUTOMATIC 35B CAMERA

## FILM

FILM SIZE—Kodak No. 135, 20- or 36-exposure magazines  
NEGATIVE SIZE—24 x 36mm

## LENS

44mm, *f*/2.8 Kodak Ektanar  
LENS OPENINGS—*f*/2.8 through *f*/32—controlled by meter  
COMBINATION LENS ATTACHMENTS—Use Series 5. Retaining ring supplied.

## SHUTTER

KODAK AUTOMATIC FLASH SHUTTER—Automatically set as film is advanced  
SPEEDS—"Daylight" (1/80) and "Flash" (1/40) second  
FLASH—Built-in synchronization—Use No. 5 or 25, M2, AG-1, M5, or M25 flash bulbs at the "Flash" setting, and Electronic flash  
DOUBLE-EXPOSURE PREVENTION

## EXPOSURE CONTROLS

Automatic for prevailing light—with photoelectric exposure control—ASA 10 to 320  
Automatic for flash from 5 to 25 feet—Guide Nos. 35 to 340

## FOCUSING AND VIEWING

FOCUSING RANGE—3 feet to infinity—and zone focusing  
VIEWFINDER—Optical, projected view-frame type, with signals indicating "flash" setting, low-light level and focus zone

## OTHER FEATURES

Single-Stroke Film Advance  
Easy Drum-Type Loading  
Automatic Film Leader Wind-Off  
Tripod Socket—standard tripod thread  
Exposure Data Cards