Kodaks Junior

Six-20 and Six-16 Series II

This camera manual library is for reference and historical purposes, all rights reserved. This page is copyright© by **mike@butkus.org**, M. Butkus, NJ. This page may not be sold or distributed without the expressed permission of the producer. I have no connection with any camera company.

On-line camera manual library

If you find this manual useful, how about a donation of \$3 to:

M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy.

This will help me to continue to host this site, buy new manuals, and pay their shipping costs.

It'll make you feel better, won't it ?

If you use Pay Pal, use the link below. Use the above address for a check, M.O. or cash.



www.PayPal.me/butkus

Venmo @mike-butkus-camera

Back to main camera manual page www.butkus.us

There are ways to use 120 film in these cameras.. check the web.



SERVICE DEPARTMENT

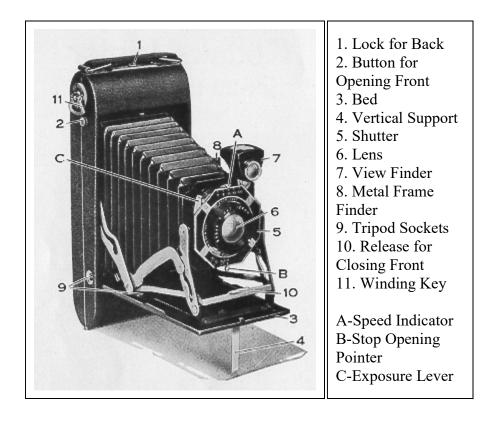
ADDITIONAL ASSISTANCE FOR MAKING BETTER PICTURES THOUGH we give in this manual the essential directions for using the camera it accompanies, there are amateurs who wish for further knowledge of photography. The Service Department is at their service, your service. Do not hesitate to call on us for information on any photographic subject. We are (it your service, write to us, there is no charge, no obligation.

> Address, all Communications SERVICE DEPARTMENT EASTMAN KODAK COMPANY ROCHESTER, N. Y.

Picture taking with the Kodaks Junior Six-20 and Six-16 Series II Kodak Bimat Lens

Published by EASTMAN KODAK COMPANY ROCHESTER, N. Y., U. S. A.

THE CAMERA

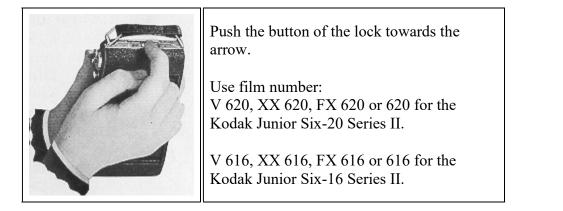


IMPORTANT

BEFORE loading your Kodak with film, and before taking any pictures with it, read these instructions carefully. Take especial care to learn how to operate the shutter.

While loading and unloading, he very careful to keep the protective paper wound tightly around the film to prevent light striking it. The Kodak can be loaded or unloaded in daylight. This should be done in a subdued light, not in direct sunlight.

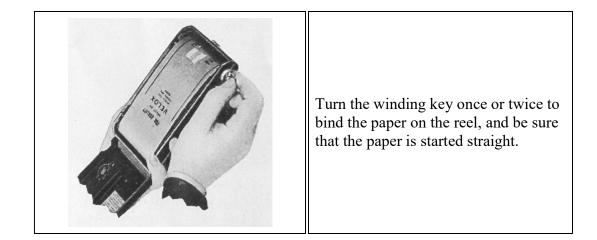
To LOAD

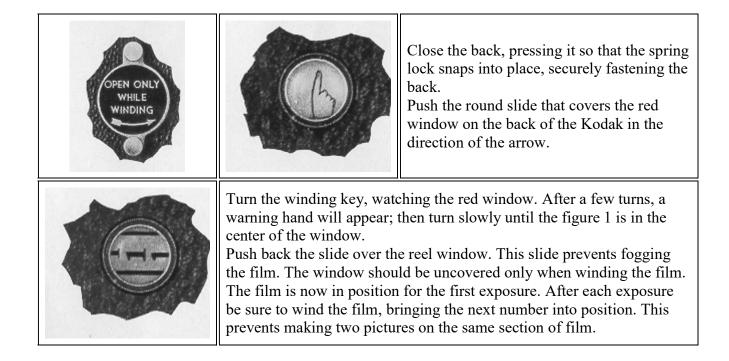






Remove the paper band and pass the protective paper over the two rollers, and thread it through the longer slit in the empty reel, as far as it will go.





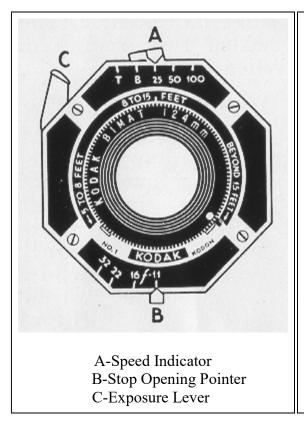
OPENING THE FRONT



Press the button 2, page 2, to open the front; then draw down the bed until it locks. This brings the lens and shutter into position. The Kodak is adjustable for close-ups, near-by views, and distant subjects.

When the lens is revolved so that the white dot on the flange is at the arrow marked: "Beyond 15 feet," the Kodak is in focus for all subjects beyond fifteen feet. For groups or near-by views the white dot on the flange should be at the line marked: "8 to 15 feet." For close-ups, revolve the lens until the white dot is at the arrow marked: "5 to 8 feet."

THE SHUTTER



Instantaneous Exposures

Move indicator A to 25, 50, or 100 (see Exposure Guide on back cover or table on pages 10 and 11).

Move pointer B to the correct stop opening (see Exposure Guide on back cover or table on pages 10 and 11).

The Kodak Shutter has the stop openings and shutter speeds engraved on the top of the shutter as well as on the front, for greater convenience when making pictures with the Kodak in the vertical position. Press lever C to make the exposure.

Time Exposures

Move indicator A to the letter "T."

Move pointer B to f.11, 16, 22 or 32, according to the time of exposure and nature of the subject. See tables on pages 10, 11, 12, 25, 26 and 31.

Press lever C. This opens the shutter. Time the exposure by a watch. Again press lever C. This closes the shutter.

For short time exposures from one half second to ten seconds, "Bulb" Exposures are recommended.

"Bulb" Exposures

Move indicator A to the letter "B." Move pointer B to f.11, 16, 22 or 32. See pages 10, 11, 12, 25, 26 and 31. Press lever C to open the shutter which will remain open as long as lever C is held down. Time and "Bulb" Exposures must never be made with the Kodak held in the hands.

Important: Never oil the shutter.

In case of accident, return the camera to your dealer or to us for repairs.

Cable Release: A cable release (No. 29) can be used with the Kodak if desired, but the camera should not then be closed without first removing the cable release.

To attach the cable release, remove the screw directly behind the lever C and replace it with the cable release. After using the cable release, detach it and replace the screw in the opening. The screw may be loosened and tightened with a small coin.

STOP OPENINGS

The stop openings regulate the amount of light passing through the lens. The openings are enlarged or reduced by moving the pointer B, see page 8.

The largest stop opening is f.11. This opening allows approximately twice the light to enter the lens as f.16; f.16 admits twice the light of f.22; and f.22 twice the light of f.32. There

fore, if the correct exposure is 1/100 second at f.11 the same amount of exposure would be obtained with f.16 and 1/50 second, and 1/25 second with f.22.

f.11 For all ordinary outdoor pictures, such as near-by landscapes showing little or no sky, groups and street scenes, when the subject is in bright sunlight, use speed 25; for moving objects in very bright sunlight, use speed 100.

f.16-For open views, when the sunlight on the subject is unusually strong and there are no heavy shadows, such as views at the seashore and on the water, use speed 50; for ordinary landscapes, in bright sunlight, with clear sky overhead, use speed 25; also for Interior Time Exposures, the time for which is given on page 26.

f.22--For instantaneous exposures of extremely distant landscapes, marines, snow scenes without prominent dark objects in the foreground, and clouds only, in bright sunlight, use speed 25; also for Time Exposures.

f.32-For Time Exposures Outdoors on cloudy days, see page 31. For Interior Time Exposures, see pages 25 and 26. 1)u not use for instantaneous exposures unless using Kodak Super-AN Panchromatic Film.

The smaller the stop opening the greater the depth or range of sharpness, see tables on page 13. The exposures given in the table are for Kodak Verichrome, Panatomic-X, and Regular Film; with Kodak Super Verichrome Film, use the second smaller stop opening than the table recommended in the table, or use the same stop opening with a shutter speed four times as fast as the one given in the table.

For a subject in the shade, under the roof of a porch or under a tree, a short time exposure should be made, with Kodak Verichrome, Panatomic-X, or Regular Film ; with Kodak Super-XX Panchromatic film snapshots can be made. When making time exposures the camera must be placed oil some steady, firm support.

NEARNESS OF SUBJECT

To get everything sharp and distinct in your pictures, the Kodak must not be nearer than a certain number of feet to the subject. This distance varies according to the focal length of the lens; the adjustment of the lens for close-ups, near-by views or distant subjects; and the size of the stop opening used-the smaller the opening the greater the range of sharpness. The following tables give these distances.

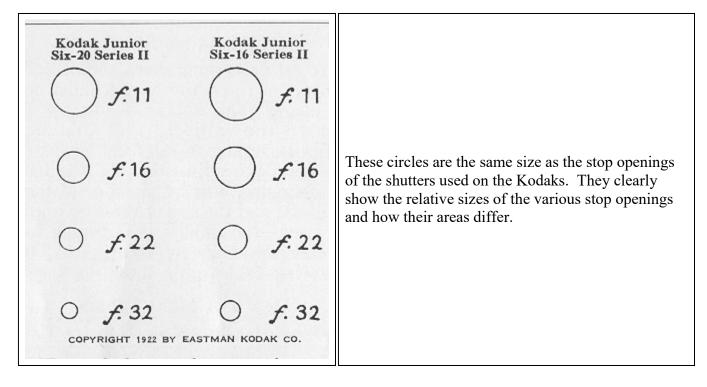
Depth of Field Tables

| Stop opening | With Kodak focused for beyond 15 feet | With Kodak focused for 8 to 15 feet | With Kodak focused for 5 to 8 feet |
|-----------------|---|---|--|
| f.11 | 15 ft. &beyond | 8 to 15 ft. | 5 to 8 ft. |
| f.16 | 11,ft.&beyond | 61to24ft. | 4 1/2 to 91 ft. |
| f.22 | 9; ft. & beyond | 6 to 47 ft. | 41/2 to 111, ft. |
| f.32 | 7 ft. &beyond | 5 ft. & beyond | 3 3/4 to 18 ft. |

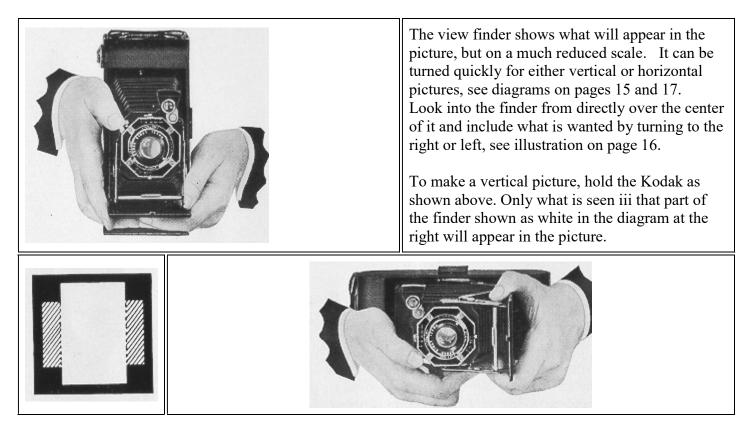
Distance from Lens to Subject

For Kodak Junior Six-16 Series II

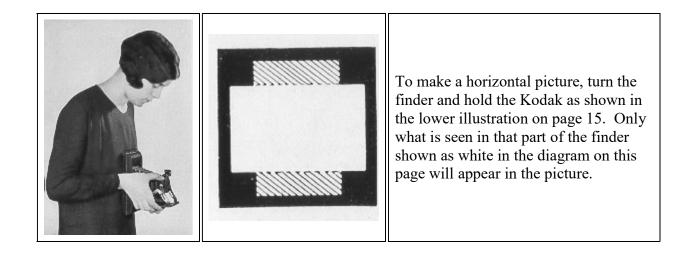
| Stop opening | Distance | from Lens to Subject | |
|-----------------|---|---|--|
| | With Kodak focused for beyond 15 feet | With Kodak focused for 8 to 15 feet | With Kodak focused for 5 to 8 feet |
| f.11 | 15 ft. & beyond | 8 to 15 ft. | 5 to 8 ft. |
| f.16 | 13 1/2 ft. & beyond | 7 1/4 to 18 ft. | 4 3/4 to 8 1/4 ft. |
| f.22 | 11 1/4 ft.&beyond | 6 3/4 to25ft. | 4 1/2 to 9 1/4 ft. |
| f.32 | 8 3/4 ft. & beyond | 5 3/4 to 68 ft. | 4 to 12 1/4 ft. |



THE VIEW FINDER



When making instantaneous exposures or snapshots with any Kodak, hold it firmly against the body as shown; or against the face if using the metal frame finder. When pressing the exposure lever, hold the breath for the instant. If the Kodak is moved during the exposure, the picture will be blurred.



THE METAL FRAME FIND

In addition to the brilliant view finder, the camera is equipped with a metal frame finder 8, page 2, attached to the side of the Kodak. To use this finder, raise the rear frame by the button and both parts of the finder will spring into position. Hold the camera with the sight or rear frame as close to the eye as possible with the camera held firmly against the face, and frame the picture within the front frame of the finder. All vertical lines in the subject should be kept parallel with the vertical sides of this frame, when holding the camera either in the vertical or horizontal position.

MAKING INSTANTANEOUS EXPOSURES OR SNAPSHOTS

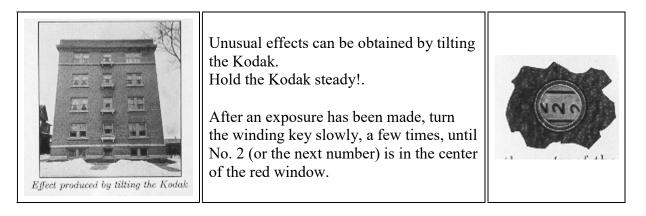
When ordinary instantaneous exposures or snapshots are made, the subject should be in the broad, open sunlight, but the camera must not. The sun should be behind your back or over the shoulder. If it shines directly into the lens, it will blur and fog the picture. For obtaining back or side-lighted pictures, use a Kodak Adjustable Lens Hood No. 2.

Special instructions for making portraits are given on pages 27 to 30.

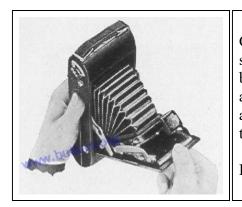
HOLD THE KODAK LEVEL

The Kodak must be held level. If all the subject cannot be included in the finder without tilting the lens upwards, move backwards until it is all included with the camera held level. If the subject is below the normal height like a small child or a dog, the Kodak should be held down leve

If the subject is below the normal height, like a small child or a dog, the Kodak should be held down level with the center of the subject.



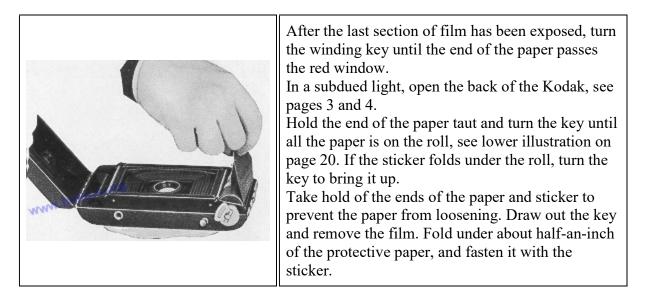
CLOSING THE KODAK



Close the Kodak by pressing the bar release 10, page 2, as shown in the illustration at the top of page 20, raise the bed and snap it shut. The front and bellows fold automatically. Be sure the finder is in the upright position, and that the lens has been turned so that the white dot is at the arrow: "Beyond 15 feet."

Remove the cable release before closing the camera.

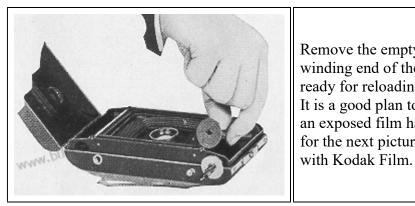
REMOVING THE FILM



"Cinch" Marks: After removing the film from the Kodak, do not wind it tightly with a twisting motion, or the film might be scratched.

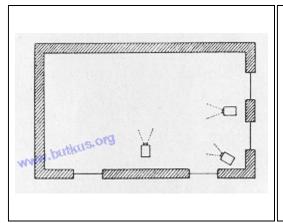
Wrap up the exposed film. It is now ready for development. This may be done by a photo finisher, or by yourself. Our Service Department will be glad to send you, upon request, complete instructions for developing and printing.

Important: Film should be developed as soon as possible after exposure. The quality of the image on all sensitized products is retained by prompt development after exposure.

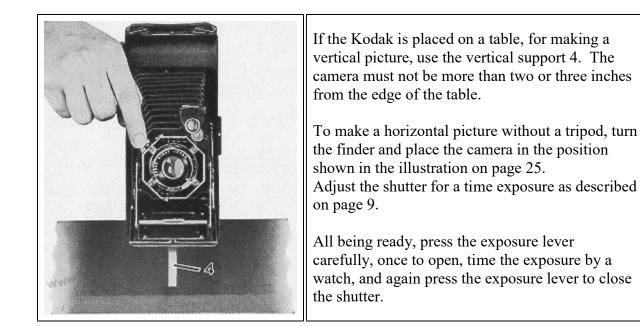


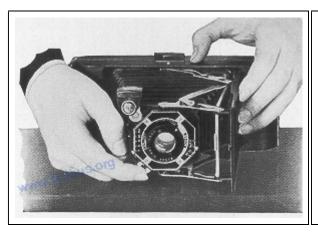
Remove the empty spool and place it in the winding end of the camera. The Kodak is now ready for reloading. It is a good plan to reload the Kodak as soon as an exposed film has been removed, to be ready for the next pictures. For the best results, load

TIME EXPOSURES - INDOORS



For time exposures the camera must always be placed on a firm support like a tripod, Optipod, table or chair, never hold it in the hands. The Kodak has two tripod sockets for use with a tripod, an Optipod or a Kodapod, with the Kodak either in the vertical or horizontal position. Place the Kodak in such a position that the finder will include the view desired. The above diagram shows three positions for the camera. It should not be pointed at a window as the glare of light may blur the picture.





After making an exposure, turn the winding key until the next number appears in the red window.

If no more time exposures are to be made, adjust the shutter for an instantaneous exposure, see page 8.

Exposure Table for Interiors

The table on page 26 gives suitable exposures for varying conditions of light, when using stop f.16. With stop f.11, give one-half;

- " " f.22, " twice;
- " " f.32, " four times the exposures given in the table.

The smaller the stop opening the greater the range of sharpness, see tables on page 13. Stop f.16 gives the best average results for Interiors.

To MAKE A PORTRAIT

The subject should be seated in a chair partly facing the light with the body turned slightly away from, and the face turned towards the Kodak which should be a little higher than an ordinary table. The subject should look at an object level with the lens or directly at the lens. Compose the picture in the finder. For a three-quarter figure the Kodak should be about eight feet from the subject; and for a full-length figure, about ten feet. Revolve the lens so that the white dot is at the line marked: "8 to 15 feet." The background should form a contrast with the subject; a light background usually gives a better effect than a dark one. To get a good light on the face, follow the arrangement shown in the diagram.

| | Bright sun | Hazy sun | Cloudy bright | Cloudy dull |
|--|---------------|-------------------|--------------------|--------------------|
| White walls and more than one window. | 4 sec. | 10 sec. | 20 sec. | 40 sec. |
| White walls and only one window. | 6 sec. | 15 sec. | 30 sec. | 1 min. |
| Medium colored walls and furnishings and more than one window. | 8 sec. | 20 sec. | 40 sec. | 1 min. 20 sec. |
| Medium colored walls and furnishings and only one window. | 12 sec. | 30 sec. | 1 min. | 2 mins. |
| Dark colored walls and furnishings and more than one window. | 20 sec. | 40 sec. | 1 min. 20 sec. | 2 mins. 40 sec. |
| Dark colored walls and furnishings and only one window. | 40 secc. | 1 min. 20 sec. | 2 mins. 40 sec. | 5 mins. 20 sec. |

EXPOSURE TABLE FOR INTERIORS USING STOP f.16

These exposures are for rooms where windows get the direct light from the sky and for hours from three hours after sunrise until three hours before sun set. If earlier or later the exposures must be longer. A reflector helps to get detail in the shaded part of the face. A white towel or tablecloth held by an assistant or thrown over a screen or other high piece of furniture will make a suitable reflector; it should be at an angle and in the position indicated in the diagram on page 27.

If the above suggestion for lighting is followed, an exposure of about one second at f.11 will be sufficient on a bright day.

Making Portraits Outdoors

When making portraits outdoors, with the sun shining brightly, the subject should be in the shadow of a building or a large tree, but with clear and unobstructed sky overhead. Place the Kodak on a tripod or other steady support, use stop f.22 or f.32 and make a Time Exposure ("Bulb") of about one or two seconds. By following this rule unpleasant and distorting shadows on the face will be avoided. When the subject is five to eight feet from the Kodak, the white dot on the lens must be at the arrow marked: "5 to 8 feet."

Kodak Portrait Attachment

The Kodak Portrait Attachment makes head and shoulder portraits. It can also be used for photographing flowers and similar subjects.

Place the Attachment over the lens and compose the picture in the finder. Turn the Kodak just a little to the left, as the short distance at which the subject must be from the lens makes it necessary to center the subject by eye instead of by the finder.

If the white dot on the lens is at the arrow marked: "Beyond 15 feet," the subject must be 3 feet 10 inches from the lens. Larger images can be obtained by having the Kodak 3 feet 1 inch from the subject, if the white dot on the lens is at the line marked: "8 to 15 feet," and 2 feet 6 inches from the subject, if the white dot on the lens is at the arrow marked: "5 to 8 feet."

Measure the distance carefully from the lens to the face.

The same exposure is required as without the Attachment.

Use the Kodak Portrait Attachment No. 6A, with the Kodak Junior Six-20 Series II with Kodak Bimat Lens. With the Kodak Junior Six-16 Series II, use the Kodak Portrait Attachment No. 7A.

Kodak Diffusion Portrait Attachment

The Kodak Diffusion Portrait Attachment is a supplementary lens used in the same manner as the regular Kodak Portrait Attachment. It produces a true, soft-focus effect.

Use Kodak Diffusion Portrait Attachment No. 6A, with the Kodak Junior Six-20 Series II with the Kodak Bimat Lens.

With the Kodak Junior Six-16 Series II, use Kodak Diffusion Portrait Attachment No. 7A.

"AT HOME WITH YOUR KODAK" is a booklet containing many diagrams and illustrations showing various lighting effects. It gives suggestions for making pictures in and around the home.

"PICTURE TAKING AT NIGHT" IS a booklet that describes in detail the methods of making pictures by electric light, flash-light exposures, campfire scenes, fireworks, lightning, moonlight effects, silhouettes and other unusual pictures.

These two booklets are free, and copies of them will be sent upon request to our Service Department.

TIME EXPOSURES-OUTDOORS

When the smaller stop openings (f.22 or f.32) are used, the light passing through the lens is so much reduced that very short time exposures may be made outdoors.

With Light Clouds-From one to three seconds will be sufficient.

With Heavy Clouds-Four seconds to eight seconds will be required.

With Sunshine-Time Exposures should not be made.

When making time exposures the Kodak must be placed on some steady, firm support; do not hold it in the hands or the picture will be blurred.

CLEAN LENSES



The pictures on page 32 illustrate the difference between results with a dirty and a clean lens. Lenses should be cleaned as follows: Open the back of the Kodak, see pages 3 and 4; then open the front as described on page 7. Wipe the front and back of the lens with Lens Cleaning Paper or with a clean handkerchief. Never unscrew the lens.

Keep Dust Out of the Camera

Wipe the inside of the camera and bellows, occasionally, with a slightly damp cloth, especially if the camera has not been used for some time.

EASTMAN KODAK COMPANY, ROCHESTER, N. Y.

PRICE LIST

KODAK VERICHROME FILM, V 620, for the Kodak Junior Six-20 Series 11, 21/4 x 31/4, eight exposures .30 KODAK SUPER-XX PANCHROMATIC FILM, XX 620, 2 1/2 x 3 1/4, eight exposures .35 KODAK PANATOMIC-X FILM, FX 620, 2 1/2 x 3 1/4, eight exposures .35 KODAK FILM (REGULAR), 620, 2 1/4x3 1/4, eight exposures .25 KODAK VERICHROME FILM, V 616, for the Kodak Junior Six-16 Series II, 2 1/2 x 4 1/4, eight exposures .35 KODAK SUPER-XX PANCHROMATIC FILM, XX 616, 2 1/2 x 4 1/4, eight exposures .40 KODAK PANATOMIC-X FILM, FX 616, 2 1/2 x 4 1/4, eight exposures .40 KODAK FILM (REGULAR), 616, 2 1/2 x 4 1/4, eight exposures .30 KODAK PORTRAIT ATTACHMENT, No. 6A, for the Kodak Junior Six-20 Series II 1.00 No. 7A for the Kodak Junior Six-16 Series II 1.00 KODAK DIFFUSION PORTRAIT ATTACHMENT, No. 6A 1.75 No. 7A 2.00 KODAK SKY FILTER, No. 6A 1.75 No. 7A 2.00 KODAK COLOR FILTER, No. 6A 1.75 No. 7A 2.00 KODAK PICTORIAL DIFFUSION DISK,

No. 6A 3.00 No. 7A 3.50 KODAK ADJUSTABLE LENS HOOD, No. 2 1.00 KODAK METAL TRIPOD, No. 0 \$2.75 No. 1 4.50 No. 2 5.00 OPTIPOD, for attaching camera to the edge of a table, chair, fence, etc 1.25 KODAPOD, for attaching camera to a tree, fence or similar rough surface 1.75 CABLE RELEASE, No. 29, for the Kodak Junior Six-20 or Six-16 Series II 35 KODAK SELF TIMER, fits on the cable release and automatically presses the push-pin, enabling the photographer to be included in the picture 1.25 KODAK NEGATIVE ALBUM, to hold 100 2 1/2 x 4 1/4, 2 1/2 x 3%, or smaller negatives 1.25 "HOW TO MAKE GOOD PICTURES," an illustrated book of helpful suggestions. It describes various methods of making exposures, developing, printing, enlarging, coloring, and other interesting subjects .50 All prices subject to change without notice.

EASTMAN KODAK COMPANY, ROCHESTER, N. Y. The Kodak

Portrait Attachment



Fits your Kodak for head and shoulder portraits-it enables you to approach closer to the subject and get a larger image, sharply focused at short range. At your dealer store.

EASTMAN KODAK COMPANY ROCHESTER, N. Y.

IMPORTANT

This manual should be read thoroughly, before you make any pictures.

While loading and unloading the camera, be very careful to keep the protective paper wound tightly around the film to prevent light striking it.

Before making an exposure be sure that the shutter is adjusted properly, for an instantaneous or time exposure, whichever is required. Use the correct stop opening and speed. Check the focus. An unexposed section of film must he in position.

The sun must be, behind your back or over the shoulder. If the sun shines directly into the lens, it will blur and fog the picture.

Hold the camera level.

Hold the camera steady when making instantaneous exposures or snapshots. The camera should he held firmly against the body (or against the face if using the metal frame finder) and when pressing the exposure lever, hold the breath for the instant. If the camera is moved during the exposure, the picture will be blurred.

When making a close-up between ,5 and 8 feet, be sure to revolve the lens until the white dot is at the arrow marked: "5 to 8 feet," and that it is turned as far as it will go.

Turn a new section of film into position immediately after making an exposure. This prevents making two pictures on the same section of film.

Keep the lens and inside of camera clean.

Never oil the shutter. Instructions for making time exposures, indoors and outdoors, are included in this manual. EASTMAN KODAK COMPANY, ROCHESTER, N. Y. 6-39-KP-25 Printed in the United States

Outdoor Exposure Guide for the Kodaks Junior Six-20 and Six-16 Series II with the Kodak Bimat Lens

| SUBJECT | STOP OPENING | SHUTTER SPEED |
|--|-----------------|------------------|
| Near-by landscapes showing little or no sky. Near-by subjects in open field, park or garden. Street scenes. | f/11 | 1/25 |
| Ordinary landscapes showing sky, with a principal object in the foreground. | f/16 | 1/25 |
| Marine and beach scenes. Distant landscapes. Snow scenes without prominent dark objects in the foreground. Mountains. | f/22 | 1/25 |
| Portraits in the open shade, not under trees or the roof of a porch. Shaded near-by scenes. Narrow and slightly shaded streets. | f/22 | B - 1 sec. |
| Moving objects. When photographing a moving object such as a rustler, train or an automobile, the subject should be moving towards or away from tile camera at an angle of about 45 degrees. | f/11 | 1/100 |

Exposures are for the hours from one hour after sun rise until one hour before sunset on days when the sun is shining. If pictures are made earlier or later, or if it is a slightly cloudy or hazy day, rise a larger opening (larger stop). This table is for Kodak Verichrome and Panatomic-X Films, if using Kodak Film (Regular), exposures made from 2 1/2 hours after sun rise until 2 1/2 hours before sunset.

With Kodak Super-XX Panchromatic Film use the second smaller stop opening than the one given in the table largest stop opening it . The higher the number the smaller the opening.