Viewmaster Stereo Camera

posted 2-13-'04

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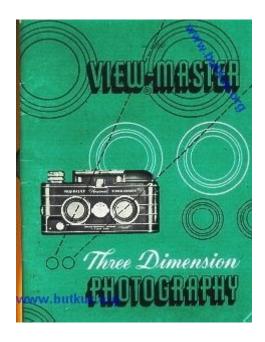
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Webmaster: Due to the way this manual is setup, I can only scan the entire page.

Welcome to

VIEW-MASTER PHOTOGRAPHY

You have added another dimension (stereo) and the colors of the rainbow to your everyday picture taking. You will be one of the first to enjoy your own "Personal". full color, three dimension pictures.

To insure your enjoyment,

- 1. We have made this camera this whole system of photography-as simple and easy to use as we possibly could, and,
- 2. We have written this instruction book to tell you, and show you with pictures, everything you must know to start taking pictures that will be truly satisfying and everywhere admired.

SAWYER'S INC.

Home Office Chicago Office Box 490 3500 No. Kostner Ave. Portland 7, Ore. Chicago 41, I11.

INSTRUCTIONS

Illustrated

Instructions

Page

PRE-LOADING CHECKS

Turn SHIFT KNOB to "A" 4 Lock WINDING KNOB by turning. Set COUNTER to 20X OR 36X 5

LOADING

Open camera and lay it face down on a table . . . 6 Insert three perforations of film in slot of SPOOL . . 7 Engage magazine on slotted shaft 8 Fit film on SPROCKET and pull film tight.

Close back of camera 9

INITIAL WINDING

Turn WINDING KNOB three full turns 10 Check FILM ADVANCE INDICATOR 10

EXPOSURE-EASY METHOD

Set CENTER DIAL for FILM SPEED.

Set SHUTTER at 1/50.

Match proper SKY BRIGHTNESS to correct SUBJECT COLOR by turning the LENS OPENING DIAL . . 11

ADVANCING THE FILM

Turn WINDING KNOB a full turn after each exposure.

When Winding Knob LOCKS and

Shutter will not CLICK, you have

reached the important HALFWAY POINT 12

. . . then . . .

Turn SHIFT KNOB to "B".

Take last picture when COUNTER reads "19" or "36". Wind FOUR times before unloading 13

UNLOADING

Unload in subdued light.

Tell processor, "Don't cut my roll" 14

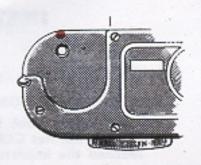
PERSONAL REEL MOUNTING 14 & 15

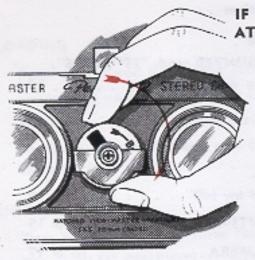
LABELED VIEW OF CAMERA 16 & 17

PRE-LOADING CHECKS

If this opening shows BLACK, it is safe to open the camera.

If it shows RED, the camera is loaded. In this case, check the counter (see page 13) to see if it is safe to open the camera.





IF SHIFT KNOB IS

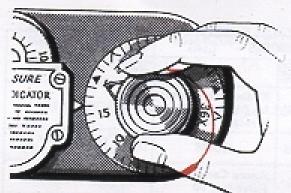
TURN SHIFT KNOB TO "A"

Turn until black square disappears. This will lock the lenses in their lower position.

SHIFT KNOB should look like this when you start to load your camera.



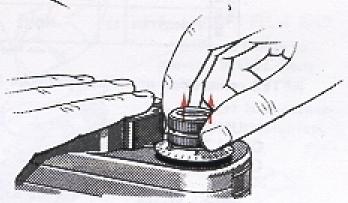
PRE-LOADING CHECKS



3. SETTIME the WINDS ING KNOB until it locks — until it will not turn in either direction.

b. Pull up AND turn to set COUNTER.

A continuous upward pull is necessary while you turn the WINDING KNOB.



c. Set counter to . . .

... 20X for 20-exposure roll.



Set FILM LENGTH 19 INDICATOR 35

This will remind you when to stop taking pictures.

36-exposure roll.



LOADING

THE FILM

ILM	INDOORS INCAMPRISORMY		OUTDOORS SUNLIGHT		
	A.S.A. FILM SPEED	FILTER	ASA FILM SMEED	FILTER	
DAYLIGHT	4.	Kodachrome Filter for Photoflood Wratten No. 80	10	NONE	
TYPE A	16	NONE	10-	Type A Filter Wratten No. 85	

12

12"



NONE e oo with Filter

Ansco Conversion Filter No. 10

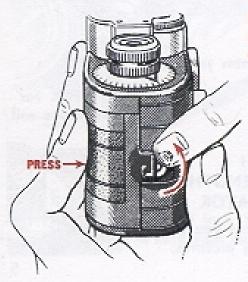
AFTER completing pre-loading checks (pages 4 & 5)

12

1. UNLOCK AND OPEN THE CAMERA BACK.

DAYLIGHT

TUNCSTEN



LAY CAMERA FACE DOWN ON A TABLE.



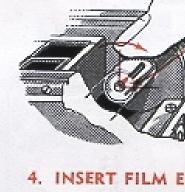
NONE

Ansco Conversion Filter No. 11

LOAD FILM IN SUBDUED LIGHT

3. TURN SLOT OF SPOOL TO 45° POSITION

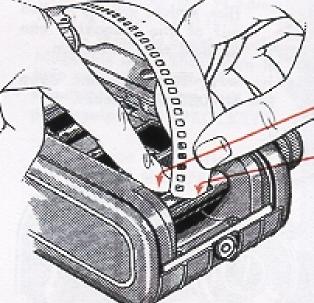
Roll SPOOL with your finger as pictured.



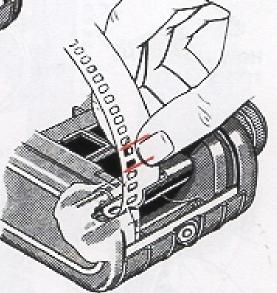
4. INSERT FILM END

LOADING

- a. Press firmly to prevent SPOOL from slipping.
- b. Start film cornerwise, then straighten.

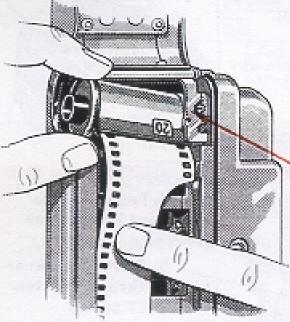


c. Insert THREE PER-FORATIONS of film, then slide film to the left as far as it will go.



LOADING

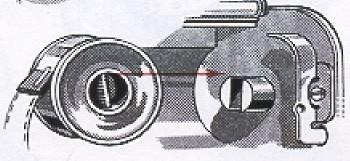
5. INSERT THE FILM MAGAZINE

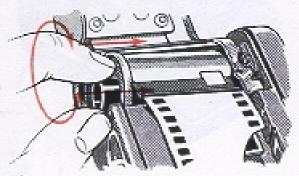


a. Draw magazine towards the slotted shaft on which it fits. By holding film flat in the film channel, the amount of extra film which will be pulled out of the magazine can be held to a minimum.

b. Tilt magazine down UNDER the bracket.

HOW MAGAZINE FITS SHAFT.





 Turn the small end of the magazine and push until it pops into place.

6. FIT PERFORATIONS ON SPROCKET THERADING PULL FILM TAUT AS SHOWN

The toothed SPROCKETS in the center of the camera drive

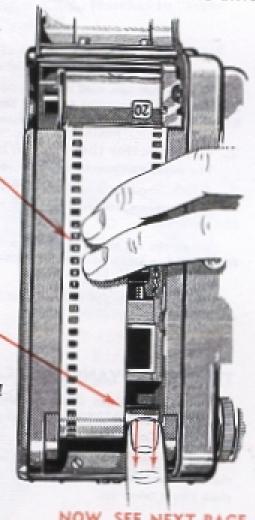
the film in and out of the film magazine exactly 8 perforations each time the Winding Knob is turned a full turn.

The Wind-up Spool and the Magazine Drive Shaft turn to help advance the film, but are slip-clutched so they will not pull against the SPROCKETS.

- a. Engage perforations on the teeth of the SPROCKET.
- b. Roll wind-up SPOOL towards you pulling film reasonably tight.
- 7. CLOSE CAMERA BACK

BE SURE LATCH IS LOCKED!





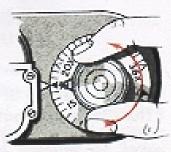
NOW, SEE NEXT PAGE

INITIAL WINDING

1. Click Shutter







turn Winding Knob

Turn it a full turn until it locks - until it will not turn either way. The reference point will then point to 21 on the exposure counter scale of the Winding Knob, or to 37 for a 36-exposure roll.

Click Shutter then turn Winding Knob for a second time.
 The exposure counter will then read 20 (or 36).

3. Click Shutter then turn Winding Knob for a third time.

The exposure counter will then read 19 (as pictured above) or 35, for 36-exposure rolls.

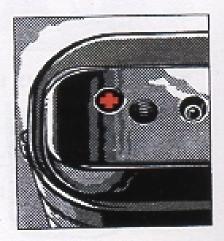
When the red cross of the Film Advance Indicator revolves, you know the film is winding properly. (See Exception below.)

The next time you CLICK the shutter, you will take your first picture!

THE FILM ADVANCE INDICATOR

The red cross turns when the film magaxine spool turns. This indicates movement of the film in or out of the magazine.

EXCEPTION: During the initial winding, the indicator may not start turning until the slack film is taken up.



EXPOSURE—EASY METHOD

1. TURN CENTER DIAL TO PROPER FILM SPEED - a. Use A.S.A. Numbers found on chart, page 6, or on data sheet that comes with your film.

b. Match A.S.A. Number to "summer" or "winter".

NOTE: Adjust only twice a year-Mar. 22 and Sept. 22, or for different speed film.

Example - FILM SPEED of

2. SET SHUTTER

PRESS

. DIAL TO "50"

This means 1/50th of a second.

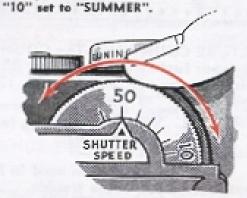
LENS

DARK-

LIGHT -

SUBJECT COLOR

AVERAGE



3. ADJUST LENS OPENING DIAL

This will move the CENTER DIAL and allow you to MATCH the proper SUBJECT COLOR to the existing SKY BRIGHTNESS.

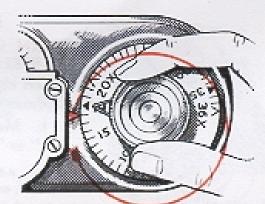
> SKY BRIGHTNESS Pictured on Page 20.

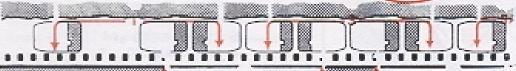
ADVANCING THE FILM

1. AFTER EACH EXPOSURE

"Caurion: After winding, try to turn the Winding Knob both ways to be sure it is locked.

A full turn of the Winding Knob cocks the shutter, counts each exposure, and advances the film alternating the stereo pairs as pictured below.





PICTURE COUNTING—The COUNTER will look like this as you take your first 19 pictures (first 35 pictures for 36-exp. roll for which counter will read "34, 33, 32". etc.).







--etc., to--







Too much film used in loading or a roll cut short in

SYMPTOM—WINDING KNOB becomes hard to turn while turning counter from 3 to 2, or 2 to 1. This means that all of the film but the attached end is out of the magazine; forcing the WINDING KNOB may tear free this end making it impossible to re-wind.

CURE—Turn SHIFT KNOB to "B", then, carefully, turn WINDING KNOB in the opposite direction (clockwise) until it locks. Now click the shutter (which may not be cocked) and turn another full turn.

WINDING KNOW LOCKS WHUTTER WILL NOT CLICK

This happens after taking a picture at "1". Now, turn SHIFT KNOB as shown on next page.

2. TURN SHIFT KNOB TO "B"

Be sure black square disappears. Then . . .

Turn WINDING KNOB a full turn clockwise to cock the shutter.

PICTURE COUNTING

Now as you take pictures, the COUNTER INDICATOR will point successively at 2, 3, 4 . . . etc. to . . . 16, 17, 18; or (for 36-exposure rolls) to . . . 32, 33, 34. 3. TAKE LAST PICTURE AT "19"

OR "35"

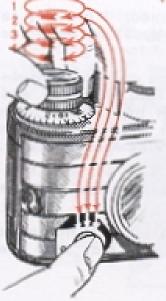


The FILM LENGTH INDICATOR set properly when loading, will help you remember when to stop taking pictures.



ADVANCING THE FILM

4. BEFORE UNLOADING, TURN WINDING KNOB FOUR FULL TURNS



Click the shutter each time. This winding will draw your last exposure into the light-proof magazine.



THE BOTTOM PLATE OF THE CAMERA WILL HELP YOUR MEMORY.



UNLOADING

UNLOAD IN SUBDUED LIGHT - NEVER IN DIRECT SUNLIGHT!

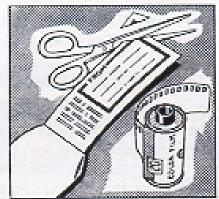
When you open the camera back, take out the film and immediately place it in the safety of its metal container.

TELL THE FILM PROCESSOR, "DO NOT CUT!"

KODAK FILM -- Cut off the corner of the MAILING LABEL.

OTHER FILM - Write "Do Not Cut" on your order.

You want your roll of film back UNCUT!



THE VIEW-MASTER FILM CUTTER quickly registers and die-cuts Stereo Pairs from the COMPLETE, UNCUT roll of developed film. See next page.

THE THREE CHOICES

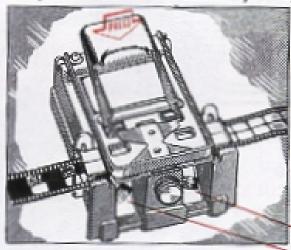
When your film is developed and returned, it is ready to be mounted in View-Master Personal Reels. There are three ways to do this.

- 1. MOUNT THEM YOURSELF—It is easy and economical—the equipment will soon pay for itself. You will enjoy and appreciate your pictures more if you edit and mount them yourself. You need only the inexpensive View-Master Film Cutter and blank Reels carried by your View-Master dealer.
- 2. TAKE THE FILM TO YOUR VIEW-MASTER DEALER— He will carefully mount them in Personal Reels and return them to you promptly for a modest fee.
- 3. SEND THEM DIRECT TO SAWYER'S INC.—If no dealer in your area offers a mounting service, you may send the film to Sawyer's Inc.

PERSONAL REEL MOUNTING

MAKE YOUR OWN REELS! IT'S EASY! IT'S FUN!

Each Reel of 7 Stereo Pairs can be a "production" that "stars" your family and friends. More than just a photographer, you will be author, director and film editor. Your Reels will be picture stories admired by everyone.



THE VIEW-MASTER FILM CUTTER DOES THE WORK

You just fit the proper film perforations on a sprocket—press down and an occurately die-cut Stereo Pair falls from the machine.

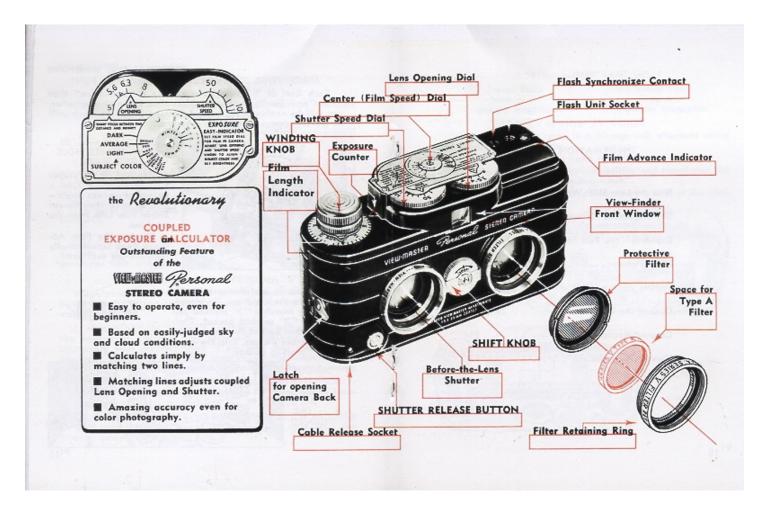
Turning the Film Advance Knob automatically registers the next pair.

THE "E" AND "" MARKS

These marks are photographically etched into each picture. To mount, you simply match a """ marked picture to a """ marked pocket. Then put the other half of the Stereo Pair, a "E" marked picture, into the opposite "E" marked pocket.

FILM SLIPS INTO DIE-FORMED POCKETS





INFORMATION SECTION

How the Lens Shift Works 19

Sky Brightness Pictures 20 Exposure-the Full Story . . . 21, 22, 23

Flash Pictures 24 & 25

Picture Taking Hints 26, 27, 28

Care of the Camera 29 & 30

Camera Accessories 31

Viewing Accessories 32

THE "FILM MISER" LENS SHIFT

37 Stereo Pairs from a

69 Stereo Pairs from a 20-exposure magazine. 36-exposure magazine.

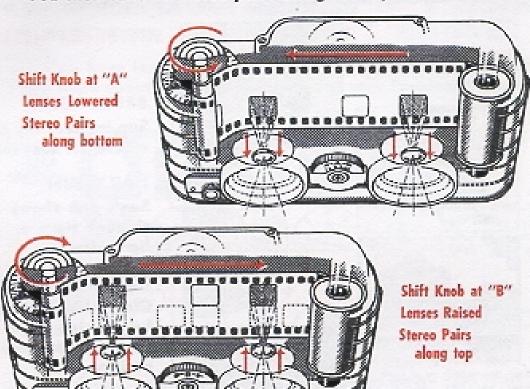
THIS IS HOW IT WORKS

Your first 19 stereo pairs, in a 20-exp. roll, alternate along the bottom half of the film.

Then, you turn the Shift Knob to "B".

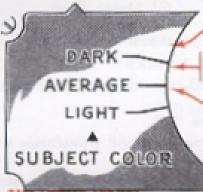
This locks the lenses in a raised position and transforms the Winding Knob into a "Re-winding Knob".

You then take 18 stereo pairs along the top half of the film.



EXPOSURE - THE FULL STORY

CALCULATOR BASED ON FRONT-DIGHTED SUBJECTS



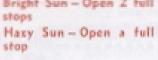
For dark complexions, dark foliage, subjects in light shade, etc.

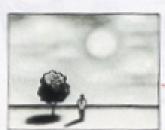
Use this mark for most subjects and when in doubt.

For clouds, foaming water, delicate flesh tones, white buildings, etc.

NOTE: Use DARK or beyond for heavy shade. Use LIGHT or beyond for snow or beach scenes.

Bright Sun - Open 2 full



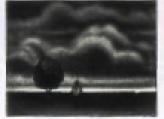




Bright Sun - Open a full Hazy Sun - Open 1/2 stop







SKY BRIGHTNESS

BRIGHT SUN Sun in clear sky or clouds not near sun.

HAZY SUN Sun's disk shows through hoze or light clouds.

CLOUDY BRIGHT Clouds hide sun but bright area shows sun's approximate position.

CLOUDY DULL Heavy clouds nearly cover the sky.

EXPOSURE -- THE FULL STORY

UNDEREXPOSEDT EXPOSUREORRECKES THE PICTURE EXPOSED





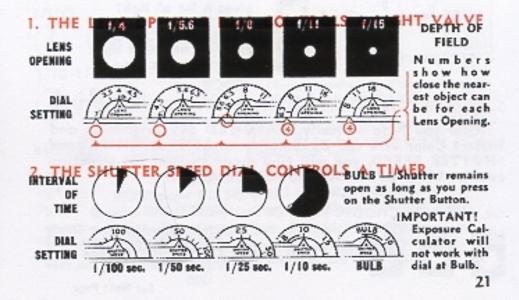


COLORS DARKENED

COLORS BRIGHT AND TRUE

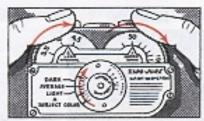
COLORS FADED OUT

You have learned the EASY METHOD. Now you want to learn more about Exposure - more about your Personal Camera.



EXPOSURE - THE FULL STORY

3. BOTH DIALS CONTROL THE CENTER DIAL TO CALCULATE CORRECT EXPOSURE





When you MATCH these lines for SKY and SUBJECT, as shown on page 20, you move the Dials to ONE COMBINATION of Shutter Speed and Lens Opening that gives CORRECT EXPOSURE.

4. MANY COMBINATIONS GIVE THE SAME EXPOSURE

Set these Dial Settings on your camera. Notice that both give the same exposure — MATCH the same lines.

1/100 sec. at f/4 1/25 sec. at f/8

gives 1/4 as much light for 4 times as long.

gives a lot of light for a short time.

5. CHOOSE THE COMBINATION TO FIT YOUR PICTURE

After you have correctly MATCHED Sky Brightness and Subject Color with one combination of LENS OPENING and SHUTTER SPEED, you will find many reasons for selecting another LENS OPENING or SHUTTER SPEED.

6a. HOW TO CHOOSE LENS OPENINGS

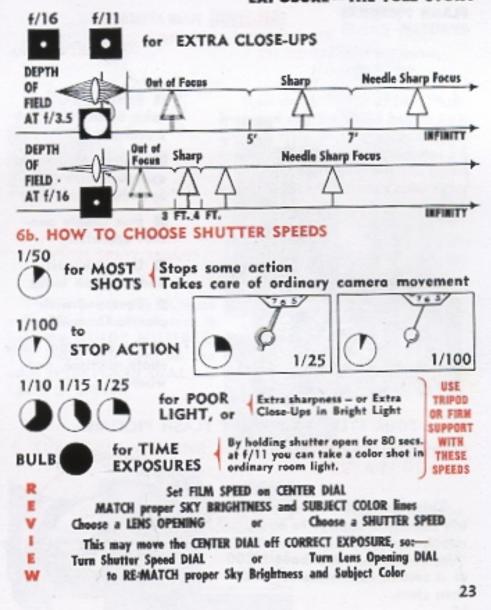
1/3.5 6/4 6/4.5

for POOR LIGHT

If it is Cloudy Dull, or Cloudy Bright, use one of these LENS OPENINGS instead of a SHUTTER SPEED less than

1/25 See Next Page

EXPOSURE -- THE FULL STORY



FLASH PICTURES

FLASH ATTACHMENT

Personal CAMERA

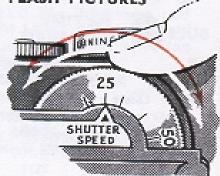


- Enables YOU to take wonderful flash pictures.
- Calculates correct exposure with an optical rangefinder.
- Has simple onedial operation.
- Uses low cost midget flash bulbs.
- Equipped with plastic Flash Guard.
- Takes action, color shots anytime, anywhere.

FOUR STEPS TO PERFECT FLASH PICTURES

1. SET SHUTTER SPEED DIAL TO "25"

This "slow" shutter speed will allow the shutter to open, remain open during the brief "flash" of the bulb (about 1/200 of a second for SM bulbs) and then close.

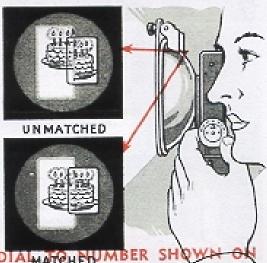


3. TURN FLASH DIAL TO MATCH SPLIT IMAGE

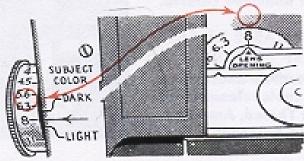
This measures the distance and automatically divides it into the GUIDE NUMBER. The result you read on the edge of the FLASH DIAL is a LENS OPENING.

2. SET INNER FLASH DIAL TO GUIDE NUMBER

Each combination of film, flash bulb and shutter speed has its own GUIDE NUMBER. See flash bulb carton for details. For example: 57 is the Guide Number for SM bulbs and Type A or Tungsten color film.



4. TURN LENS OPENING DIALMATCH TUMBER SHOWN OF



This will give the Correct Exposure for the subject whose split image you have matched.

PICTURE TAKING



How NOT to hold the camera



1. HOLD THE CAMERA RIGHT

Grip firmly, thumbs upright along camera back.

Press against face for steadiness.

Press shutter button with right index finger.

Keep left index finger under filter ring - do not block the lens.





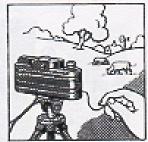
2. SQUEEZE THE SHUTTER BUTTON

Jabbing the Shutter Button will jar camera causing blurred pictures.

"Squeeze off" each picture by tightening whole right hand. Practice with an unloaded camera.

3. USE A TRIPOD AND CABLE RELEASE FOR EXTRA SHARP PICTURES

To eliminate ALL camera movement, use a good tripod and a cable release (with either the ASA Straight Thread, American, or the ASA Taper Thread, European).



PICTURE TAKING



4. USE VIEWFINDER CORRECTLY

THIS about 1/2 inch THIS from the View-finder eyepiece.





THIS 5. COMPOSE YOUR PICTURE CAREFULLY

Keep the picture simple. Do not center your subject.

HOT





THIS

Watch your backgrounds.

HOT)





THIS

Make action and lines lead into the picture.

HOT





THIS

Do not amputate your friends.

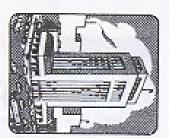
HOT



PICTURE TAKING



6. CENTER THE LEVEL
BUBBLE TO LEVEL
HORIZONTAL Don't
LINES. Verticals. You
will have to
view them like this.



7. CHECK YOUR FILTERS

COLOR FILM	TUNGSTEN	OR TYPE A	DAYLIGHT TYPE		
TYPE OF LIGHT D	FLASH and FLOOD	DAYLIGHT	FLASH and FLOOD	DAYLIGHT	
NO FILTER	Perfect Color	Bluish Cold	Red. Muddy	Perfect Color	
ORANGE *	Red. Muddy	Perfect Color	PNEVER USE WITH THIS FILM		
BLUE*	PHEVER U		Perfect Color	Bloish Cold	

* COLOR CONVERSION FILTERS

Black Printing-Correct Filter Chilegures

Red Printing-A Filter Mistake

8. J. HENE SUND When the Fan is OUR and the sky us blue, you will get scenic pictures full of brilliant color and sparkling detail. When light clouds soften the sharp shadows, you will get your best outdoor portraits.

b. THE FLASH PICTURE—Indoors, flash shots are the easiest, most satisfying way to take pictures. Your indoor action shots will make photography a year 'round hobby.

Reeb Jond Came cherip ocessors duplicate entire strips of uncut film which you can cut and mount. However, originals are better and less costly, so take extra pictures for your family and friends right at the scene!

28



HANDY AND SAFE

CARE OF THE CAMERA

1. PROTECT FROM

DROPPING, HARD

KNOCKS, RAIN,

ETC.

Your View-Master Personal Camera is all-metal, and durably built but one fall could put it out of action-

A carrying case is the best protection you can give your camera.

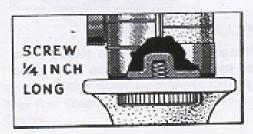
2. DON'T "MUSCLE" THE MOVING PARTS!

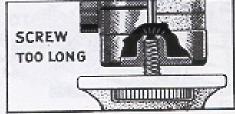
All the dials and knobs will turn easily or not at all.



3. CHECK LENGTH OF YO

If over 1/4" long, file it down before screwing it into your camera. THIS LOCKS THIS RESULTS IN A WOBBLY, OR EYEN BROKEN CAMERA.





CARE OF THE CAMERA

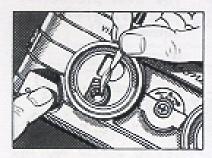
4. KEEP GLASS SURFACES CLEAN





With CLEAN Lenses and Filters

With DIRTY Lenses and Filters

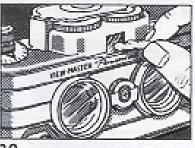


TO CLEAN LENSES . . .

Use only a soft brush!
FRONT LENS—Remove protective
filter and hold shutter open to "BULB".
REAR LENS—Open camera back
and set Lens Opening Dial to f/3.5.

TO CLEAN FILTERS . .

Remove dust by brushing or blowing. Then breathe on filter and polish with lens tissue or chamois.



TO CLEAN VIEWFINDER . . .

Wrap chamois or lens tissue on a paper match. Breathe on the glass and polish front and back window.

CAMERA ACCESSORIES BY RESIDERA

CLOSE-UP ATTACHMENTS - 24" and 36" models. Prism lenses give "natural" close-up pictures. With case.

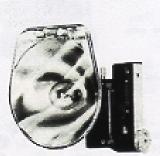




CAMERA CARRYING CASE - Top grade cowhide. Detachable, drop front.

"STEREO-MATIC 500" 3-D PROJECTOR -Twin-lensed, die-cast aluminum stereo assisctor, Matched, f/3.0 anastigmat

projector. Matched, f/3.0 anastigmat lenses project 50-inch, 3-D, full-color image. 500-watt, split-beam illumination insures balanced lighting. Automatically focuses when images are registered on screen. Blower-cooled. Carrying case available.





FLASH ATTACHMENT – Synchronized. Exposure simplified. See pages 24 and 25.





TYPE "A" FILTERS - Matched. Corrects Type A or Tungsten Film for daylight use. Coated.

VIEWING ACCESSORIES by WELLER



- The patented Jiscene mounts that make stereo photography easy and economical, Die-formed pockets. See page 15.



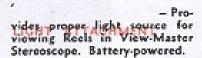
- Die cuts stereo pairs for the Personal Reel. Makes stereo mounting fast, accurate and fun. See Page 15.

FILM INSERTER—for safe, quick and easy Reel mounting.



- Compact, durable, casy to operate viewer.
Uses 7-scene View-Master
Reels. Lever scene changing.











- Pocket-size, spiralbound, tough, pliable, red leather-grained cover, holds 30 envelopes and Index Page for View-Master Reels.





