

# Universal STERE-ALL

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All Stere-all Cameras are accompanied by a guarantee bond. Should any defect develop due to poor workmanship or material within a period of one year from date of purchase, repairs will be made without charge, provided the bond registration post card has been detached from the bond and returned to us filled in within a date ten days after purchase.

Your Stere-all Camera is a precision made instrument and should be handled accordingly. We designed and built it, let us make any adjustment that may be necessary. Send your camera only to Universal Camera Corporation if repairs or check up is desired.

Be sure to register your camera - for your own protection.

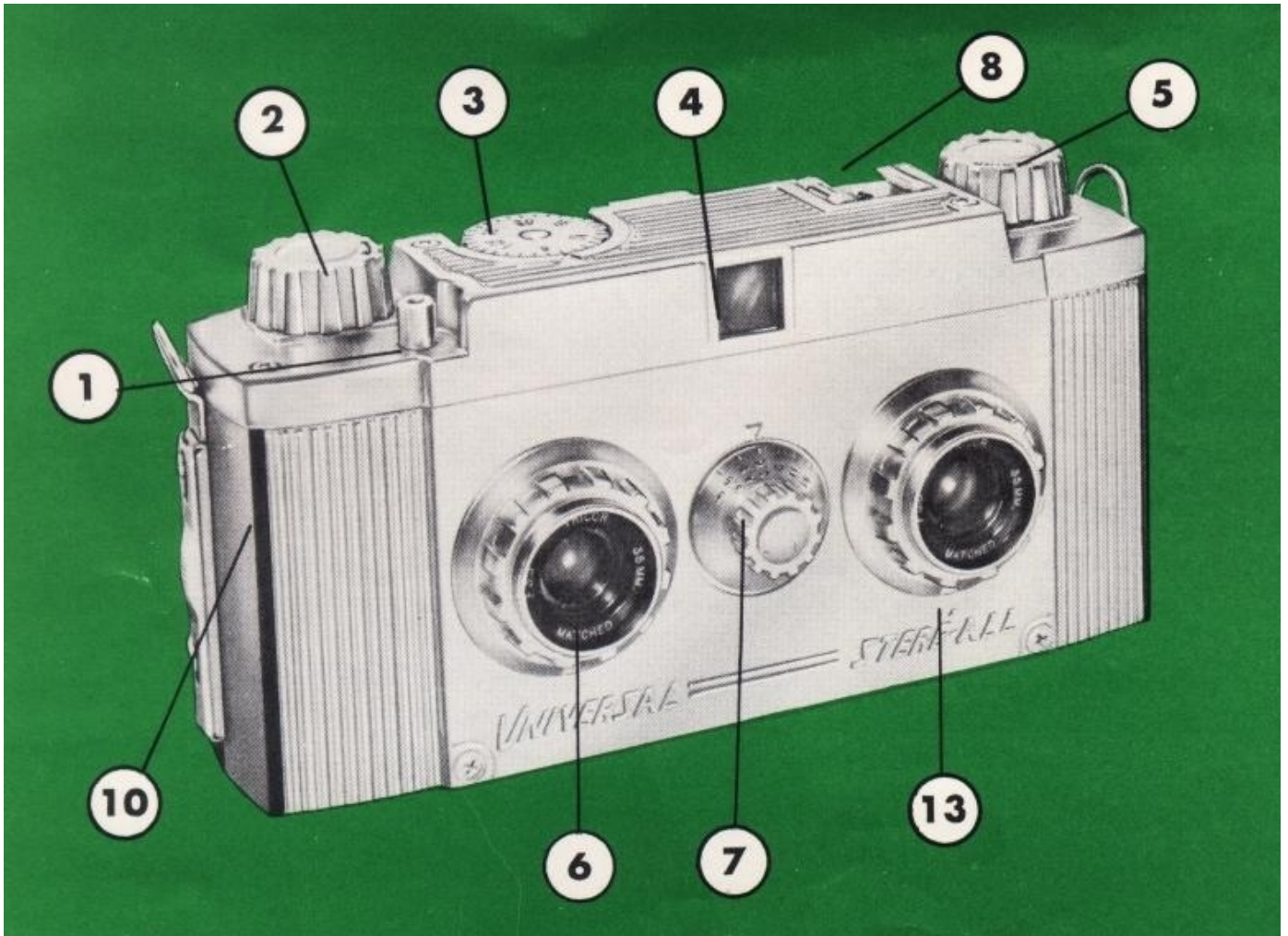
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Three dimensional photography is rapidly replacing the conventional flat photograph because conventional photography reproduces only a fraction of the exciting visual detail that the eye sees and wishes to record. But 3D photography recreates life, for it makes possible photographs in natural color, natural size, and natural depth. Yet the stereo camera is as easy to operate as the ordinary box camera.

Stere-all, your new 35MM stereo camera, makes it possible for you to discover for yourself the excitement of 3D picture taking. Your pictures taken with the Stere-all Camera will live in all their exciting true-to-life detail through the magic realism of stereo photography. The scenic grandeurs that thrilled you during your summer trip will be yours to enjoy throughout the year as you and your friends see them, in their perfect clarity, with your Stere-all Viewer. Your child's smile will lose none of its charm, but will be faithfully recorded forever, as real and as round as life, through Stere'-All's 3D magic.

Your Stere-all Camera is the product of precision workmanship and the finest modern design. It can give you a lifetime of pleasure if you follow the few simple instructions in this manual.

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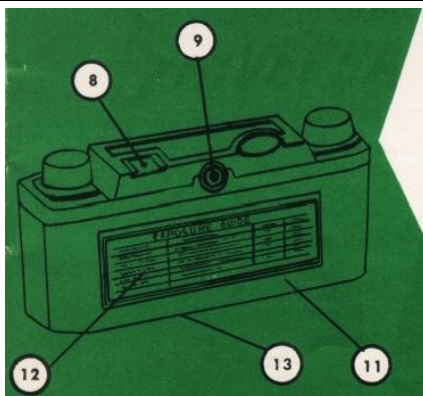
**1. SHUTTER RELEASE BUTTON**

**2. WINDING KNOB**

**3. EXPOSURE COUNTER DIAL**

**4. VIEWFINDER LENS**

**5. REWIND KNOB**



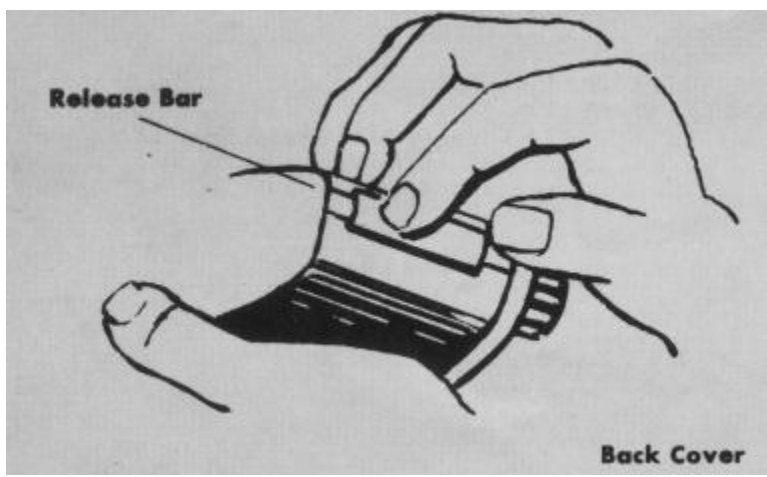
**10. RELEASE BAR**

**11. BACK COVER**

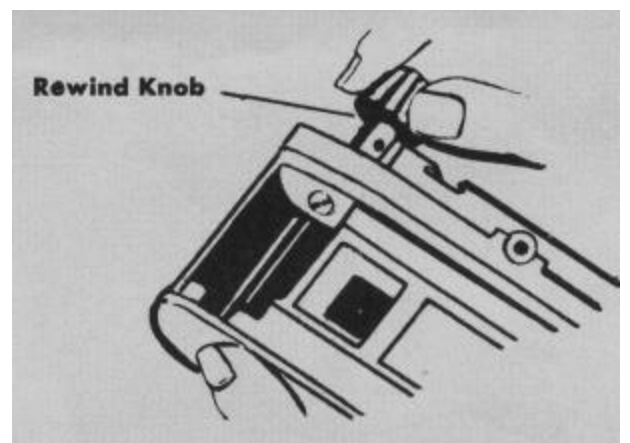
**12. EXPOSURE GUIDE**

**13. REWIND BUTTON**

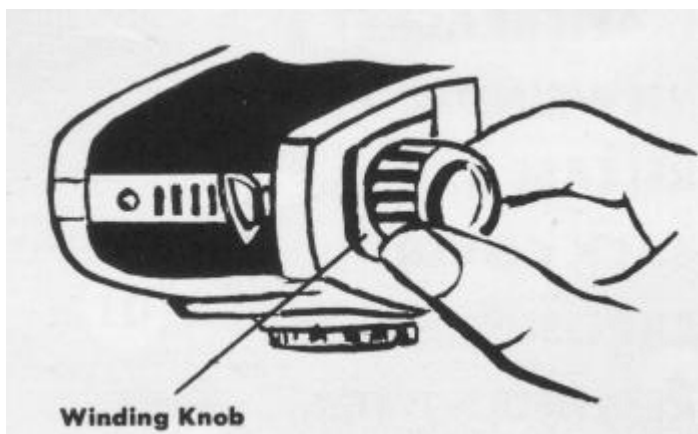
**L (Underside of Camera)**



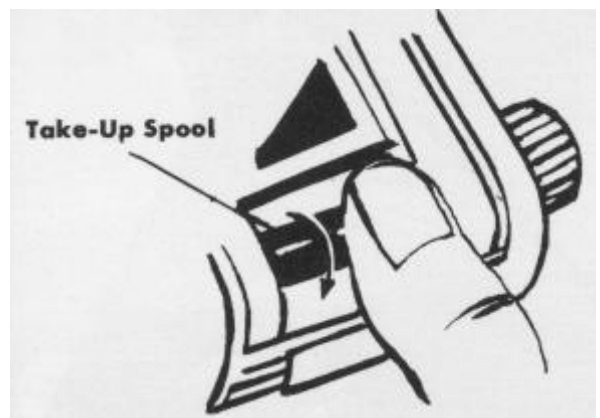
1. Slide RELEASE BAR towards top to open camera. Remove BACK COVER completely.



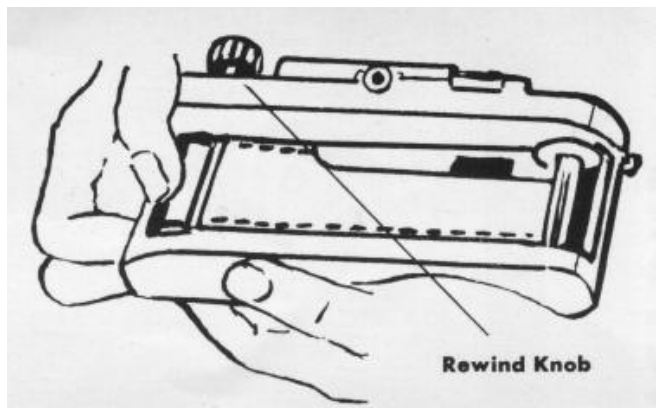
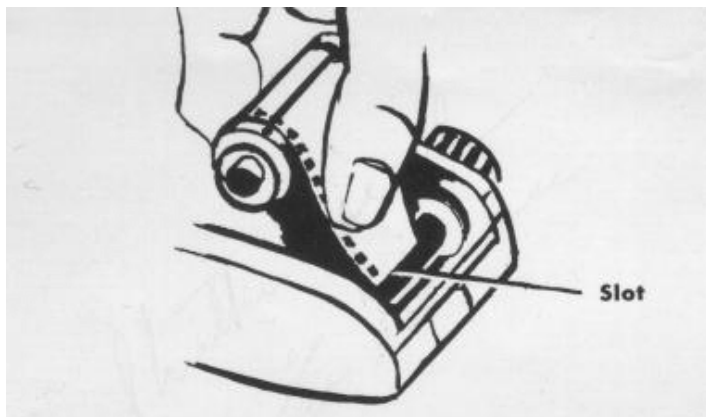
2. Pull REWIND KNOB out.



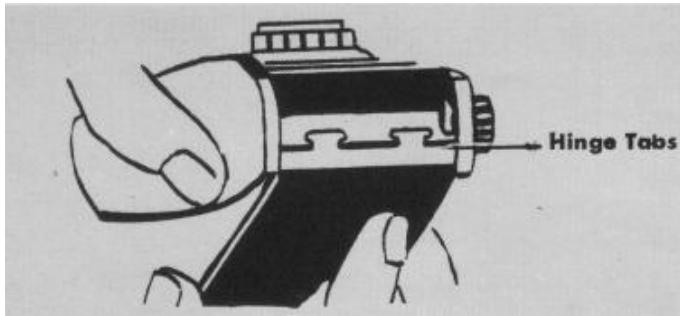
3. Turn WINDING KNOB (in direction of engraved arrow) until it stops.



4. Rotate TAKE-UP SPOOL counter clock wise until SLOT is up.



5. Insert film leader into SLOT, pushing film between inside of spool and spring. Be sure film is securely fastened since film will not properly advance if it slips out of slot.

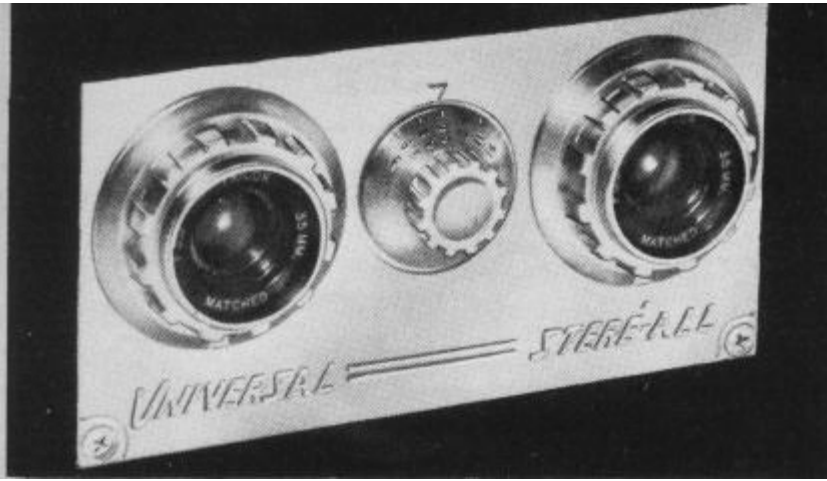


7. Hook HINGE TABS of BACK COVER into slots in HINGE PLATE. Press BACK COVER closed. Lock by sliding RELEASE BAR towards bottom of camera.

6. Pull film cartridge along film track and push cartridge into recess. Push REWIND KNOB in with a slight turning motion.

8. Now press SHUTTER RELEASE BUTTON. Then advance film by turning WINDING KNOB (in direction of engraved arrow) until it stops. Press SHUTTER RELEASE BUTTON and advance film a second time. Press SHUTTER RELEASE BUTTON and advance film a third time\*, Set exposure counter Dial to 1 by turning dial clockwise until figure 1 is adjacent to Counter Index Mark.

Camera is now ready for taking first picture.  
\* It is necessary to transport film 3 times to clear out film exposed during loading. The film manufacturer has anticipated this and provided the extra film in the cartridge.



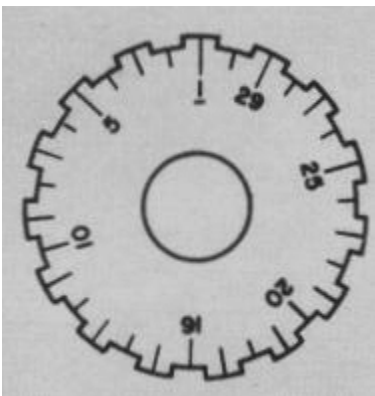
1. An EXPOSURE GUIDE, reproduced here, has been placed on the BACK COVER as an aid in setting to correct lens opening. This setting should be made before taking pictures by bringing the indicated f number on the STOP SET KNOB adjacent to the triangular INDEX MARK. The setting need not be changed, once set, until light conditions change.

EXPOSURE GUIDE			
CONDITION		COLOR	B & W
Bright Sunlight	Sky, Sea, Snow	f8	f16
Bright Sunlight	Average Scene	f5.6-f8	f11
Hazy Sun	Soft Shadows	f4.5	f5.6
Bright Overcast	No Shadows	f3.5	f4.5
Dull Overcast			f3.5

*Values are from 2 hrs. after Sunrise until 2 hrs. before Sunset*

2. Sight through the VIEWFINDER EYEPIECE to frame the scene to be reproduced. The camera will take exactly what you see in the view-finder. Be sure the camera is held *level with the horizon* to prevent later eye strain when viewing pictures. Tilting the camera up or down for compositions above or below eye level is permissible.

3. Hold camera *firm and steady* while pressing RELEASE BUTTON *slowly* until all the way in.



1. The EXPOSURE COUNTER DIAL indicates the number of stereo-pairs exposed. Since you can load your Stere-all Camera with one of three different size 35 MM cartridges, you must familiarize yourself with the following information.

35 MM STANDARD    NUMBER OF STEREO  
EXPOSURE CARTRIDGE    PAIRS OBTAINED

20 exp =    16 exp

36 exp -    29 exp

Stereo 20 film = 20 exposures

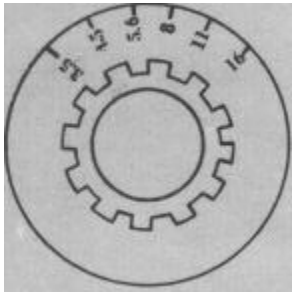
Thus, if you have loaded with a 20 exposure cartridge the film is completely exposed when the EXPOSURE COUNTER DIAL indicates 16 and the SHUTTER RELEASE BUTTON has been depressed.

Trying to wind beyond the completely exposed count may break film loose from cartridge and prevent rewinding.

2. Press REWIND BUTTON all the way in and hold. Rewind film into cartridge by turning REWIND KNOB in direction of engraved arrow. Rewind until REWIND KNOB turns very freely. Release REWIND BUTTON.

3. Unlock and remove BACK COVER.

4. Pull out REWIND KNOB. Remove film cartridge and place in container to protect from light.



The ultimate objective of stereo photography is to capture, for reproduction, scenes exactly as they appear in nature. For this reason stereo focusing requirements differ from those of single lens picture making.

As your eyes continually move over a landscape, you look at only one small area at a time. But you sharply focus on each area and perceive everything in detail.

To re-enjoy this experience through stereo photography, the reproduction must be as sharp as possible from foreground to distance. This requires that the lens *not* be focused sharply on only one plane in the picture, but that the lens be set to produce the greatest possible "depth-of-field". Fortunately, this setting can be fixed at the time of manufacture of the camera.

"Depth-of-field" is a measure of the distance over which objects are in acceptable focus. It is dependent upon the f stop number, the focal setting of the lens, and the lens focal length. The focal length of the f/3.5- 35 MM coated Stere-all lenses have been engineered for the best "all-around" high quality value for general usage. Focus of the lenses has been preset, after considerable study, to the value most useful in stereo photography. The variable f stop settings, however, allow the critical user latitude in finely balancing exposure against depth-of-field.

**When using the following f stops**

3.5  
4.5  
5.6  
8  
16

**fine detail will be assured at these distances \***

8' to 25'  
7 1/2' to 35'  
7' to 50'  
6' to infinity  
4 1/2' to infinity

*\*It should be remembered that available light, as shown on page 8, must be of sufficient intensity for the f stop number used. For close-ups using f/11 or f/16 with color film, flash can be employed to supplement natural light. Use table on page 11.*

You can make both indoor and outdoor flash pictures with your Stere-all Camera. The shutter has been synchronized for class "M" flash lamps and Strobe lights. All you are required to do is to mount the Stere-all Flash Unit according to directions supplied with the unit, and set the lens opening to correct f number.

For indoor color flash, the following table will indicate f number setting:

**DAYLIGHT COLOR FILM -PRESS #513 BULB**

Feet-Bulb to object	4	5 1/2	7 1/2	11	14	18
f/number	16	11	8	5.6	4.5	3.5

**TUNGSTEN COLOR FILM\* # 5 BULB**

Feet-Bulb to object	5 1/2	8	11	16	18	25
f/number	16	11	8	5.6	4.5	3.5

**\*ANSKO TUNGSTEN UV-16 FILTER KODACHROME A 81D FILTER OR EQUIVALENT**

The Stere-all Camera will accommodate filters of the slip-on type. Simply slip the filters on the protruding  
SLIP-ON FILTER RETAINING RINGS.





For outdoor color fill-in, blue coated flash bulbs should be used. Refer to Daylight Color Film table in this application.

- 
1. Before closing your camera, make sure that the film leader is securely fixed in the take-up spool.
  2. Advance film three frames before taking your first picture.
  3. Make sure that your exposure dial is set to # 1.
  4. Check to see how many stereo pairs your 35 MM film contains. Do not tear your film by trying to advance film beyond that amount.
  5. Set your f stop to the desired position.
  6. When taking your picture, make sure that you hold your camera steady, and level with the horizon.
  7. When advancing film for your next picture, make sure that the wind knob is turned until it is stopped.
  8. Before putting away your camera, check to see that the lenses and inside of your camera are clean. Use a soft brush or lens. tissue.

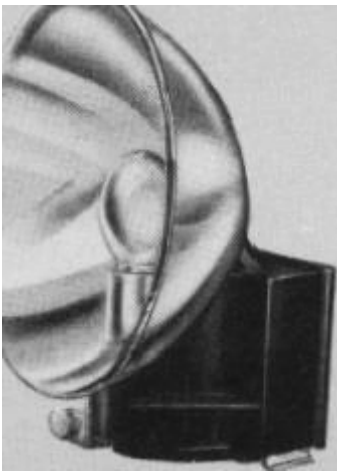
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The Stere-all flash unit assures you of perfect 3D pictures regardless of light conditions.

Trim in feature, handsome in design, the Stere-all flash unit slips right on to the Stere-all Camera. Flash photography becomes as simple as any snap shot you have ever taken, with this modern Stere-all flash unit.

Equipped with five inch Parabolic reflector, taking three penlight batteries. The Stere-all flash unit assures you of positive contact upon releasing your shutter.

The Stere-all flash unit accepts any standard bayonet type flash bulb, and an adapter will permit you to use the new M-2 bulb. A positive safety switch of the on and off type safeguards you against wasting flash bulbs.

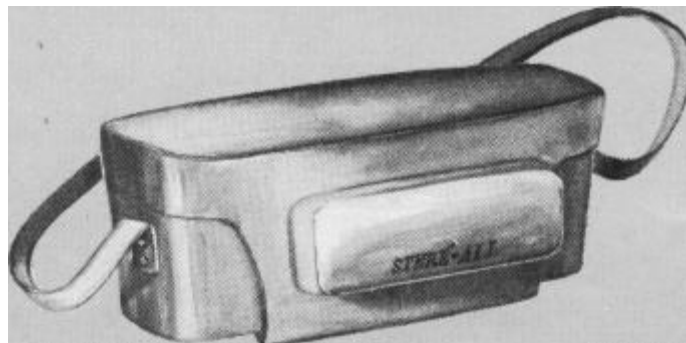


Handsomely styled, light in weight, the Stere-all Viewer makes picture viewing an exciting experience. Precision cemented achromatic lenses assure you of a perfect 3-Dimensional picture. As soon as you insert your color slide, your Viewer automatically lights up. Fingertip controls snap your picture into sharp focus. Interocular adjustment fits the picture to *your* personal vision. To eject slide, you push the eject button and your slide pops up - there's no awkward fumbling. When put down, Viewer light automatically shuts off. No other stereo viewer has all these combined features, yet check this amazingly low price ...

**\$12.50**



Durable, attractive case enables you to use your Stere-all Camera while in case when taking either daylight or flash pictures. Assures your camera of perfect protection at all times.



Universal Camera Corporation is now readying for production a stellar line of accessories in the stereo field to accompany the Stere-all Camera and Viewer.

Under immediate consideration is a 3D Projector especially designed for use in the home. Stressing viewing comfort and ease of operation, Universal's 3D Projector will be just what you want for family viewing, and at a price to fit your pocket.

A self-illuminated, folding viewer. Made from Universal's revolutionary design, this folding viewer, with batteries enclosed, will enable you to show your 3D slides where ever you may be. Compact and handy, to be carried in pocket or purse. Watch for Universal's full line of stereo mounts for snap-in, precision viewing.

