



Revere

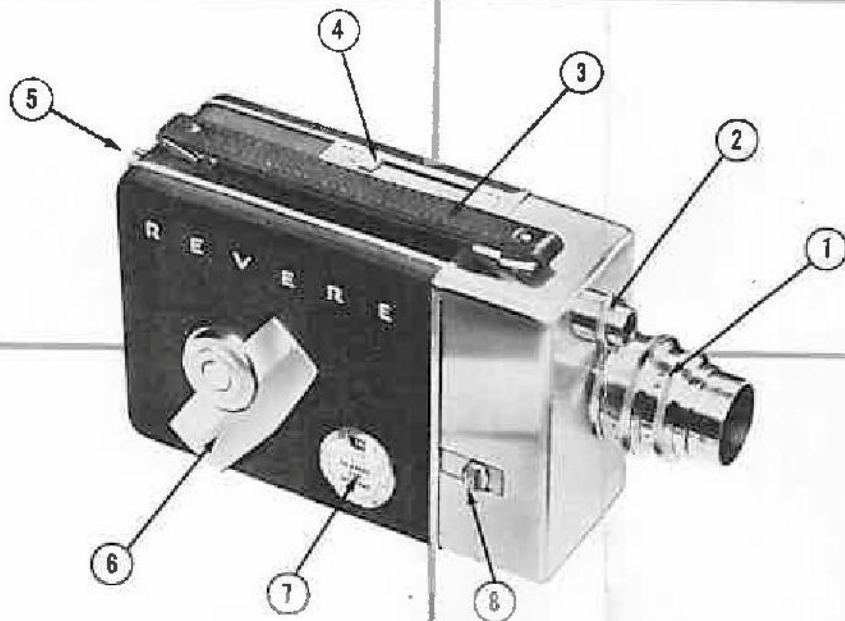
MAGAZINE

**16 mm
movie
camera**

WELCOME TO THE REVERE FAMILY

Congratulations. You are now the proud owner of a finely engineered camera backed by many years of skilled craftsmanship in the photographic field. The Revere Camera Company wants you to derive the greatest amount of pleasure from your investment and stands ready to serve you at all times.

All Revere cameras which leave our assembly lines have been rigidly inspected and film tested. Read your instruction manual carefully and you will obtain professional results from the very start.



PRINTED IN U.S.A.

MODELS

SINGLE LENS MODELS are equipped with one **NORMAL 1" Wollensak Raplar lens** and one 1" matched objective finder.

Model No. 36 with f/2.5 fixed focus

Model No. 37 with f/1.9 focusing mount

Model No. 34 with f/1.5 focusing mount

TURRET TYPE MODELS are equipped with one **NORMAL 1" Wollensak Raplar lens** and one 1" matched objective finder.

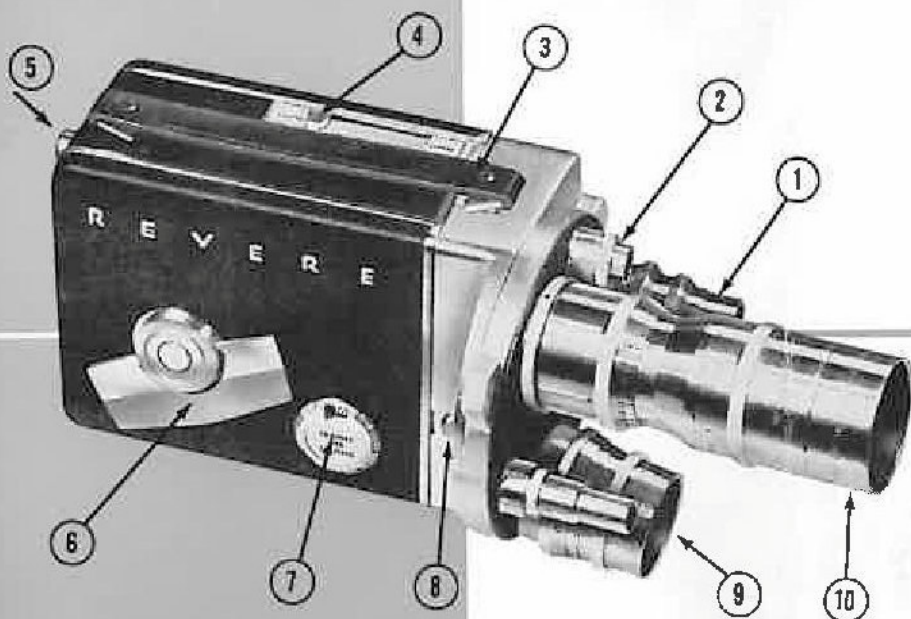
Model No. 38 with f/2.5 fixed focus

Model No. 39 with f/1.9 focusing mount

Model No. 35 with f/1.5 focusing mount

VIEWFINDER field, on single lens models, is indicated by a stationary objective finder lens marked 1". When substituting **NORMAL 1"** taking lens with a **TELEPHOTO** or **WIDE ANGLE** lens, objective finder must also be replaced with a finder of matched focal length. Remove both by unscrewing.

Viewfinder is parallax corrected, on all models, for subjects situated 6 feet or beyond. When sighting a subject, through the eyepiece, which is closer than 6 feet, make certain top and right side of subject falls within the boundaries of the two small detents seen along the edge of the viewfinder mask. This is to compensate for the viewfinder offset which is slightly above and to right of taking lens. Make necessary allowance by moving camera slightly up and to right when composing image in viewfinder.



- | | |
|------------------------|---------------------|
| 1. Normal lens | 6. Winding key |
| 2. Objective finder | 7. Speed dial |
| 3. Carrying handle | 8. Operating button |
| 4. Door lock | 9. Wide angle lens |
| 5. Viewfinder eyepiece | 10. Telephoto lens |

Tripod socket (not visible) located on bottom of camera.



Turret model accommodates a choice of three lenses of assorted focal lengths and matched objective finders. When lens is in picture taking position, matched viewfinder objective should be on top.

Lens and viewfinder combinations are changed by grasping disc spokes and rotating turret disc in either direction until next index position is felt as a positive click.

Precision engineered angle turret permits installation of any combination of lenses, varying in focal length from $\frac{1}{2}$ " to 6" without obstructing picture taking lens.

Slight obstruction will be noticed, only in viewfinder field, if wide angle f/1.5 or long focus telephoto lenses are installed on camera. Cut-off is not serious enough to hinder composition of subject matter sighted in viewfinder and does not interfere with field of taking lens.



LOADING

1 →

Slide **DOOR LOCK** lever forward to "OPEN" position.

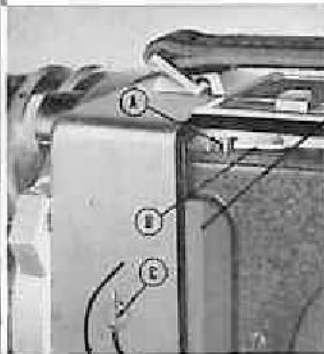


OPERATION

FOOTAGE METER. Located in center of exposure dial automatically registers amount of unexposed film in magazine. When figure "0" appears in window, total of fifty feet of film has been consumed. Magazine is then ready for removal from camera.

WINDING SPRING MOTOR. Wind spring motor fully before taking each scene. This insures full motor capacity when needed. Winding key is of ratchet type which winds like a watch and eliminates necessity of removing fingers from key. Long run motor maintains constant speed thruout full spring wind. Mechanism stops to prevent film overexposure on spring run down.

OPERATING BUTTON. For normal use, slide **OPERATING BUTTON** back about half way to start motor. Release finger to stop motor. For continuous run, slide operating button back and apply slight pressure. This locks button in place, allowing you to step into your own movies. For single frame exposures, slide operating button forward and release finger. This action exposes only one frame at a time and is a feature the advanced movie maker can apply when making animated titles or cartoons. Camera must be on a sturdy tripod when used for single frame or continuous run operation.



2

Open door wide. Insert magazine so that pin on top edge of magazine (A) engages slotted clip (B) along roof of camera. Magazine should rest flat on ribbed plate before closing door.

Symbol (C) consisting of a circle crossed by a straight line indicates location of film plane with magazine in operating position. Measure from this point to subject for critical closeup work.

UNLOADING

1. Slide **DOOR LOCK** lever to "OPEN" position.
2. Open door wide
3. Lift out magazine



3 →

Close door. Hold tightly shut and slide **DOOR LOCK** lever to "CLOSE" click position.

Safety feature: camera mechanism will not operate unless door is properly locked.

SELECTING SPEEDS

SPEED DIAL SETTING	TYPE OF SUBJECT	LENS APERTURE CORRECTION
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12 1/30 sec.	To provide more exposure needed for poorly lighted scenes when the largest aperture is not quite adequate, also to speed up pace of action for comical effects.	1/2 stop smaller than normal
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16 NORMAL 1/40 sec.	For reproduction of action at NORMAL pace. (Amateur standard for silent movies.)	NONE
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24 1/60 sec.	For producing movies which are to be projected at sound speed of 24 fps.	1/2 stop larger than normal
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32 1/80 sec.	Semi-slow motion speed for reducing action by one-half. Use when filming sports action, panoramings, or exposing pictures from moving vehicles.	1 stop larger than normal
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48 1/120 sec.	For recording fast moving action in slow motion. Reduces rate of activity by three times.	1 1/2 stops larger than normal
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*Equivalent shutter speed of individual movie frames exposed with motor running.

Your Revere camera has a convenient exposure dial mounted on side of camera for use with Daylight Color film rated ASA 10, or Black and White film rated ASA 40. Turn dial until top window matches condition of day . . . BRIGHT SUN, HAZY SUN, LIGHT SHADE, or DARK SHADE. Suggested exposure will then appear in bottom window. Dial settings have been computed for AVERAGE SUBJECTS exposed at NORMAL speed setting of 16 frames per second.

AVERAGE SUBJECTS include people, animals or objects with an equal distribution of light and dark tones. Use NORMAL exposure as dial indicates.

LIGHT SUBJECTS are beach, marine, snow scenes, people in light clothing. Reduce aperture 1/2 stop.

DARK SUBJECTS are scenes with deep foliage, dark furred animals, old buildings, persons with deeply tanned complexions. Increase aperture 1/2 stop.

OUTDOOR COLOR FILM, rated ASA 10, is balanced for use in sunlight. No special filters are necessary under normal conditions. Very distant landscapes or scenes taken in the shade will tend to be slightly bluish in color. If objectionable, this bluishness may be minimized with a HAZE FILTER. No exposure increase is necessary.

INDOOR COLOR FILM, rated ASA 16, is balanced for use with artificial light supplied by photoflood lamps. No special filter is required.

Mounting the camera on a portable light bar, equipped with two or four reflector floods, is the easiest and most popular method of supplying illumination for indoor movies. Distance from lamps to subject determines the correct "f" stop setting. Consult the chart, on your particular light bar, for correct exposure.

When necessary, indoor color film may be used in sunlight with a Type A conversion filter. With filter in place, film speed is reduced to ASA 10. Exposures are then the same as for color film labeled, Daylight.

BLACK AND WHITE FILM, rated ASA 40, is four times the speed of Daylight color film. The additional speed is particularly useful when taking movies under difficult light conditions without aid of flood lamps.



FILM AND FILTERS

1" (25 MM.) FIXED FOCUS f/2.5 LENS supplied on Revere Models 36 and 38 is the popular Wollensak Cine Raptor designed especially for the beginner. No focusing is required, but extreme closeups should be avoided unless scene is sufficiently bright to permit use of smaller aperture settings. The distance between the closest and farthest objects, photographed in sharp focus, is referred to as "depth of field." As lens aperture is reduced, depth of field is increased as follows:

f/2.5	10½ feet to 27 feet
f/4	9 feet to 34 feet
f/5.6	7½ feet to INF.
*f/8	6½ feet to INF.
f/11	5 feet to INF.
f/16	4 feet to INF.

*With camera operating at NORMAL speed of 16 frames per second, exposure most generally used, on a bright day, with Daylight color film is f/8. Note: Lens will reproduce all objects in sharp focus from 6½ feet to INF., with this "f" aperture setting.

1" (25 MM.) FOCUSING MOUNT f/1.9 LENS supplied on Revere Models 37 and 39, or the ultra-fast **1" (25 MM.) FOCUSING MOUNT f/1.5 LENS** supplied on Models 34 and 35 have independent focusing ring adjustment in addition to the "f" settings. The added versatility of these fast lenses permits accurate focusing on small objects as close as 2 feet. Just rotate the rear movable knurl of the lens barrel until distance, marked in feet, matches distance of object being photographed.

When taking movies in bright sunlight, focusing ring may be set on the 25 foot mark, (engraved in red), and used as a fixed focus lens with all aperture settings marked f/5.6 and smaller, (also engraved in red). It is well to remember that focusing becomes more critical as the lens aperture is increased and distance from subject decreased.

THE TELEPHOTO LENS. Although the movie camera, equipped with a normal 25 MM. lens, will permit movie making at close distances, there are times when a telephoto is a great advantage. Pictures of sports events, animals at the zoo, or any subject that cannot be approached closely can best be made with a telephoto lens. In 16 mm. cinematography, focal length of lens also indicates magnifying power of lens used. Example: 3" lens magnifies image 3 times, 6" lens magnifies image 6 times, etc.

Since depth of field is considerably shallower with telephoto lenses, distance must be accurately estimated and focusing ring set accordingly. Correct "f" stop setting is obtained by rotating knurl at front of lens barrel.

Ordinarily, it is not possible to hold a camera sufficiently steady when taking telephoto scenes. Since a telephoto lens magnifies every movement of the camera, a rigid tripod is highly recommended for professional results.

WIDE ANGLE LENS. The opposite of a telephoto lens is a wide angle lens. This lens will include an area much larger than normally covered by a standard 1" lens. Wide angle lens eliminates unnecessary panning and is ideal when used in confined quarters. Due to the short focal length, wide angle lenses possess remarkable depth of field . . . even at full aperture. Aperture and focus adjustments are basically the same on all Wollensak lenses.

MOVIE TIPS

- Always remember to remove lens caps before exposing film.
- Wind camera spring fully after every scene.
- Accurately set footage ring for distance on all focusing type lenses.
- Avoid extreme closeups with fixed focus lens.
- Panning, sweeping camera from side to side, should be avoided. If absolutely necessary, move camera very slowly when photographing posed or stationary objects. For best results hold camera still and let subjects provide action. Panning is permissible when following moving object.
- Always use tripod for best telephoto results.
- Subjects situated closer than 6 feet should be composed in viewfinder by aiming camera slightly higher and to right.
- Plan your scenes. Do not shoot aimlessly. Inject human interest in your movies by giving your subjects something to do. Whenever possible plan a little story.
- Expose each scene at least 5 seconds.
- Maintain continuity by featuring long, medium, and closeup views.
- Install conversion filter over taking lens if using indoor color film in daylight.
- For single frame exposures set speed dial at 16 and reduce lens aperture one-half stop less than normal.
- Have film processed as soon as possible following exposure to prevent color deterioration. Never store camera loaded with film in high temperatures such as a glove compartment of an automobile on a hot day.

NORMAL LENSES**(Wollensak)**

1" f/1.5 Super speed... all purpose lens of normal focal length. Extreme speed will capture special events in full color such as stage shows, circus acts, roller derbies, etc... with existing light. Choice of professional cinematographers as well as discriminating amateurs.

1" Focus f/1.5 Wollensak Cine Raptor lens in focusing mount with haze filter and case but without objective finder. **L-160 \$92.75**

1" f/1.9 General purpose... high speed lens, of normal focal length, for shooting pictures under adverse light conditions. Highest quality lens with special appeal to price-minded movie makers. Can be used, by beginners, as a fixed focus lens simply by setting red markings.

1" Focus f/1.9 Wollensak Cine Raptor lens in focusing mount with haze filter and case but without objective finder. **L-161 \$58.01**

WIDE ANGLE LENSES**(Wollensak)**

1/2" f/1.5 Super-speed... highest quality wide angle lens. Covers 4 times area of standard lens. Eliminates unnecessary panning and is extremely useful when shooting space is limited. Very popular with cinematographers specializing in banquets, wedding receptions, etc.

1/2" Focus f/1.5 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-210 \$125.00**

0.7" f/2.5 Fast wide angle lens covering 2.2 times the area (17 mm.) of a standard lens. Superb quality 0.7" wide angle lens. Designed for those who do not require the speed and extreme coverage of the 1/2" wide angle lens.

17 mm. Focus f/2.5 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-211 \$77.50**

TELEPHOTO LENSES**(Wollensak)**

2" f/1.5 Super-speed telephoto with 2 time magnification. This fast medium telephoto is especially useful when shooting indoor sports events. Extra speed will record special events, such as ice show extravaganzas, in full color, under existing light. Perfect companion to the ultra-fast f/1.5 normal and f/1.5 wide angle lenses.

2" Focus f/1.5 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-213 \$135.00**

2" f/2.5 High speed telephoto with 2 time magnification. Ideal for closeups and table tops. Eliminates distortion in perspective for portraiture. Ideal for all medium telephoto effects.

2" Focus f/2.5 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-212 \$85.00**

3" f/2.8 A high quality 4 element lens priced competitively with the 3 element telephotos of comparable speed. Three time magnification plus high speed makes this lens a versatile addition to your Revere camera.

3" Focus f/2.8 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-214 \$75.00**

6" f/4.5 A moderate speed telephoto with 6 time magnification. Excellent for extreme closeups of very distant objects. Highest quality 6" lens at this speed. Preferred by naturalists and outdoor sportsmen.

6" Focus f/4.5 Wollensak Cine Raptor lens in focusing mount with haze filter, Objective finder and case. **LK-215 \$107.50**

CARRYING CASE

Sturdy binocular type, custom built of selected top grain tan cowhide. Will accommodate single lens or turret model. Attractively lined. Extra adjustable shoulder strap included.

MODEL 922**\$17.50****WOLLENSAK CINE SET**

All Raptor accessory lenses are furnished with beautiful and sturdy jewel-type cases. Wide angle and telephoto lenses are supplied in sets complete with matched objective finder and haze filter. Normal 1" lenses are supplied with haze filter but without objective finder.

Wollensak Cine Raptor lenses have the highest covering power and are corrected for color and all aberrations. Optical surfaces are Wocoted to reduce internal flare and greatly improve brilliance and detail. Positive click stops give quick, precise diaphragming. Wollensak quality is your assurance of the highest standards of lens performance.

REVERE CAMERA COMPANY, 320 EAST TWENTY-FIRST STREET, CHICAGO 16, ILL.