



Wollensak

MASTERPIECE
CINE
RAPTAR
LENSES



What *Wollensak* Quality Means to You...

All Wollensak Cine Raptar lenses have the highest covering power, deliver sharp images to the very edge of the film over the entire focusing range. Tests show that all Raptar lenses are much more critical than the capability of the films to record the image. All lenses are corrected for color and all aberrations and are Wocoted. (Wocoting is Wollensak's anti-reflection hard coating designed to reduce internal light reflections and flare and greatly increase brilliance and detail.) Thus you are able to shoot either color or black and white with finest results.

Most of the lenses in focusing mounts have depth of field scales, which tell instantly areas in focus. Positive click stops give quick, precise diaphragming.

An example of Wollensak care in manufacturing is the steps taken to give the lens barrels the finest "lifetime" finish. It takes four operations before the brass barrels are ready for chrome plating. First, the barrels are satin finished. Then they are copper plated, nickel plated, satin finished and finally chrome plated. Only by following these steps will a lens always look its best.

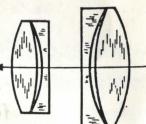
Finally, your assurance of consistency in uniformity of every Wollensak lens is the many critical tests and careful inspections they must undergo. Each lens must meet the highest standards of lens performance before it is engraved Raptar... before it leaves the plant. What's in a name? The reputation, honor and integrity of the manufacturer.

Cine Raptar Lenses

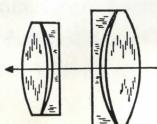
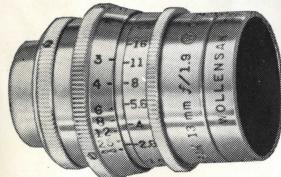
for
8 mm.
cameras

HIGH-SPEED

13mm f/1.9 Normal Cine Raptar in fixed focus.

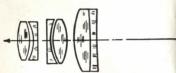
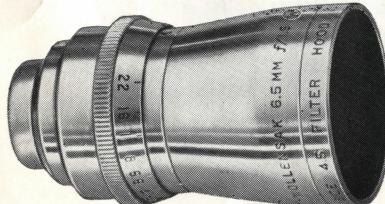


13mm f/1.9 Normal Cine Raptar in focusing mount.



WIDE ANGLE

6.5mm f/1.9 Wide Angle Cine Raptar in fixed focus.



General purpose . . . extreme speed normal lens for shooting pictures under adverse light conditions. No focusing required. Especially designed for the beginner . . . **\$27.72** tax included

Focusing Range—At f/1.9 in focus from 10 feet to infinity

Aperture—f/1.9 to f/22 Filter Size—#4

General purpose . . . extreme speed normal lens for shooting pictures under adverse light conditions. Permits close-ups at wide apertures. Can be used by beginners as a fixed focus lens.

\$47.60 tax included

Focusing Scale—1 foot to infinity

Aperture—f/1.9 to f/22 Filter Size—#4

Extreme speed, extreme wide angle lens. Covers full 4-times the area of the normal $1/2"$ lens. Maximum amount of coverage with highest speed. Extremely useful under adverse light conditions and limited shooting areas. Eliminates panning **\$70** tax included

Focusing Range—At f/1.9 in focus 3.6 feet to infinity

Aperture—f/1.9 to f/22 Filter Size—#4.5

CINE RAPTOR LENSES FOR 8mm. CAMERAS

6.5mm f/2.5 Wide Angle Cine Raptar in fixed focus.

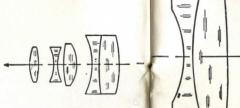
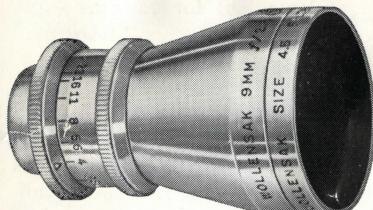


High-speed extreme wide angle lens. Covers full 4-time area of normal lens. Extremely useful under most lighting conditions and in limited shooting areas. Eliminates panning. Highest quality for the price-minded . . . **\$44.24** tax included

Focusing Range—At f/2.5 in focus 3.1 feet to infinity

Aperture—f/2.5 to f/22 Filter Size—#4.5

9mm f/2.5 Wide Angle Cine Raptar in fixed focus.



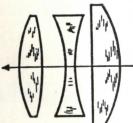
High-speed wide angle lens for cameras with 9mm view finder provisions. Covers 2-times the area of a normal lens . . . **\$44.24** tax included

Focusing Range—At f/2.5 in focus from 4 1/2 feet to infinity

Aperture—f/2.5 to f/22 Filter Range—#4.5

TELEPHOTO

1" f/2.5 Telephoto Cine Raptar in focusing mount.

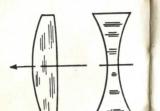
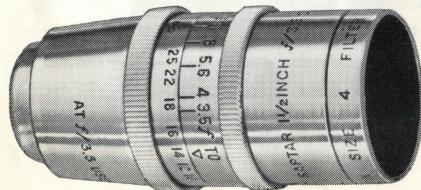


High-speed telephoto with 2-time magnification recommended for hand-held telephoto shots. Ideal for close-ups and table tops. Eliminates distortion in perspective for portraiture. Novice can use as a fixed focus lens by simple settings (Red Engravings) . . . **\$46.20** tax included

Focusing Scale—2 1/2 feet to infinity

Aperture—f/2.5 to f/16 Filter Size—#4

1 1/2" f/3.5 Telephoto Cine Raptar in fixed focus.



Moderate speed telephoto with 3-time magnification. Ideal for beginner. No focusing required. Highest quality for price-minded movie maker.

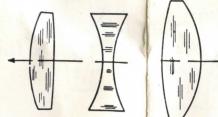
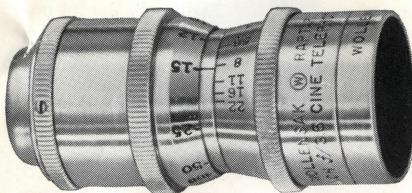
\$24.75 no tax

Focusing Range—At f/3.5 in focus from 25 feet to infinity

Aperture—f/3.5 to f/22 Filter Size—#4

CINE RAPTAR LENSES FOR 8mm. CAMERAS

1 1/2" f/3.5 Telephoto Cine Raptar in F.M.

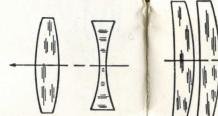
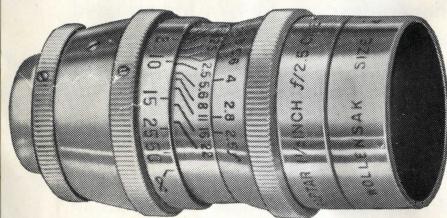


Moderate speed telephoto with 3-time magnification. A more versatile lens for the advanced beginner. Long distance shots brought up close at finger-tip ease \$41.25 no tax

Focusing Scale—5 feet to infinity

Aperture—f/3.5 to f/22 Filter Size—#4

1 1/2" f/2.5 Telephoto Cine Raptar in F.M.



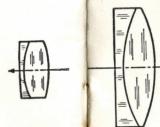
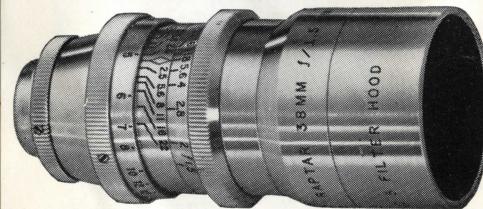
High-speed telephoto with 3-time magnification. Excellent for taking either black and white or color under most lighting conditions.

\$57.75 no tax

Focusing Scale—2 1/2 feet to infinity

Aperture—f/2.5 to f/22 Filter Size—#4

38mm f/1.5 Telephoto Cine Raptar in F.M.



Ultra-speed telephoto with 3-time magnification. Excellent for either black and white or color under adverse lighting conditions. Highest speed, highest quality at lowest price. \$67.50 no tax

Focusing Scale—3 feet to infinity

Aperture—f/1.5 to f/22 Filter Size—#5

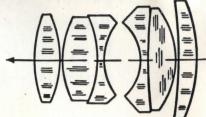
F. M.—focusing mount

Cine Raptar Lenses

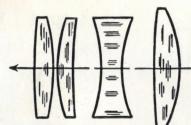
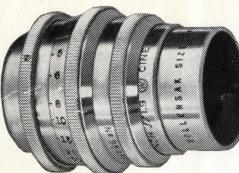
for 16 mm. cameras

HIGH-SPEED

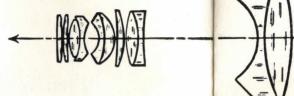
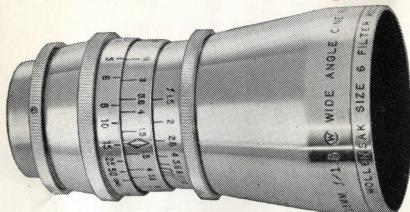
1" f/1.9 Normal Cine Raptar in F.M.



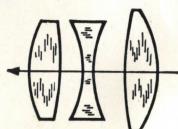
1" f/1.5 Normal Cine Raptar in F.M.



1/2" (12.7mm) f/1.5 Wide Angle Cine Raptar in F.M.



17mm f/2.7 Wide Angle Cine Raptar in F.F.



F.M.—focusing mount

F.F.—fixed focus

General purpose . . . ultra-speed normal lens for shooting pictures under adverse light conditions. Permits close-ups at wide apertures.

\$98 tax included

Focusing Scale—2 feet to infinity

Aperture—f/1.5 to f/16 Filter Size—#4.5

General purpose extreme speed normal lens for shooting pictures under adverse light conditions. Highest quality lens to appeal to the price-minded movie makers . . . Can be used as a fixed focus lens by beginners by simple settings (Red Engravings) \$61.30 tax included

Focusing Scale—2 feet to infinity

Aperture—f/1.9 to f/22 Filter Size—#4

An ultra-speed, highest quality wide angle lens. Covers full 4-times area of a normal lens. Extremely useful under adverse light conditions and limited shooting area . \$99.68 tax included

Focusing Scale—2 feet to infinity

Aperture—f/1.5 to f/16 Filter Size—#6

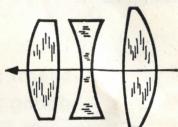
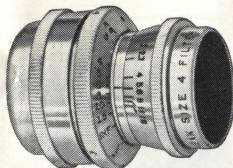
Moderate speed wide angle lens for novice or beginner. Focusing not necessary. Covers field 2.2-times the area of normal lens. Eliminates panning and chopped off heads. Highest quality for the price-minded . . . \$29.40 tax included

Focusing Range—At f/2.7 in focus from 15 feet to infinity

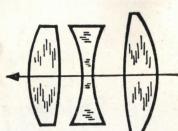
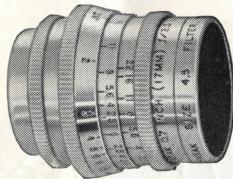
Aperture—f/2.7 to f/16 Filter Size—#4

CINE RAPTOR LENSES FOR 16mm. CAMERAS

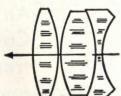
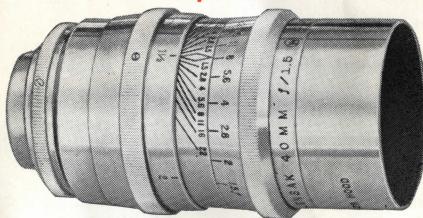
17mm f/2.7 Wide Angle Cine Raptar in F.M.



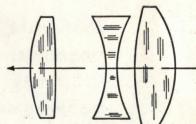
0.7" (17mm) f/2.5 Wide Angle Cine Raptar in F.M.



TELEPHOTO 40mm Telephoto f/1.5 Cine Raptar in F.M.



2" f/3.5 Telephoto Cine Raptar in F.M.



F.M.—focusing mount

Moderate speed wide angle lens covers 2.2-times the area of normal lens. A more versatile lens for the advanced beginner. Full view shots in limited area . . . \$58.80 tax included

Focusing Scale—10 inches to infinity

Aperture—f/2.7 to f/16 Filter Size—#4

High-speed wide angle lens covering 2.2-times the area of normal lens. Highest 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 . . . \$75.60 tax included

Focusing Scale—10 inches to infinity

Aperture—f/2.5 to f/22 Filter Size—#4.5

Ultra-speed telephoto with 1 1/2-time magnification. Excellent for shooting either black and white or color under adverse lighting conditions. Can be hand-held if used discriminately.

\$95 no tax

Focusing Scale—2 feet to infinity

Aperture—f/1.5 to f/22 Filter Size—#5.5

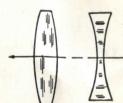
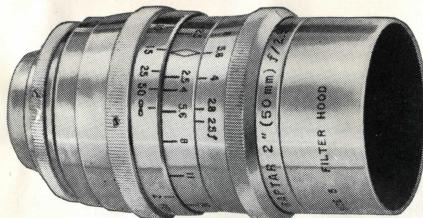
Moderate speed telephoto with 2-time magnification. Completely versatile lens of the highest quality for price-minded movie making.

\$52.25 no tax

Focusing Scale—2.5 feet to infinity

Aperture—f/3.5 to f/22 Filter Size—#4.5

2" (50mm) f/2.5 Telephoto Cine Raptar in F.M.



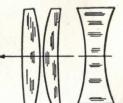
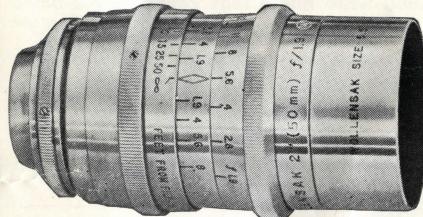
CINE RAPTAR LENSES FOR 16mm. CAMERAS

High speed telephoto with 2-time magnification. Ideal for close-ups and table tops. Eliminates distortion in perspective for portraiture. Ideal for moderate telephoto effects . . . \$69.50 no tax

Focusing Scale—2 feet to infinity

Aperture—f/2.5 to f/22 Filter Size—#5

2" (50mm) f/1.9 Telephoto Cine Raptar in F.M.



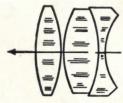
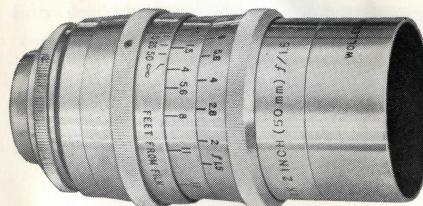
Extreme speed telephoto with 2-time magnification. Excellent for use under adverse light conditions. For those who want a short telephoto, high quality and high speed at moderate price.

\$87.50 no tax

Focusing Scale—1 1/2 feet to infinity

Aperture—f/1.9 to f/22 Filter Size—#5.5

2" (50mm) f/1.5 Telephoto Cine Raptar in F.M.



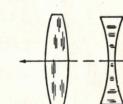
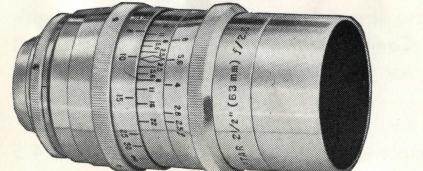
Ultra-speed telephoto with 2-time magnification. Excellent for either color or black and white under adverse light conditions. For those who want highest quality and highest speed in a 2" lens.

\$120 no tax

Focusing Scale—2 feet to infinity

Aperture—f/1.5 to f/22 Filter Size—#5.5

2 1/2" (63mm) f/2.5 Telephoto Cine Raptar in F.M.



A high-speed telephoto with 2 1/2-time magnification. Ideal for sporting events, travel, photography where moderate magnification is required.

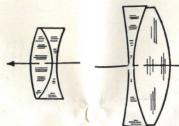
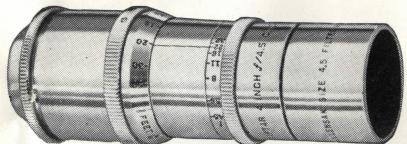
\$77.50 no tax

Focusing Scale—3 1/2 feet to infinity

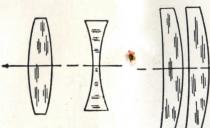
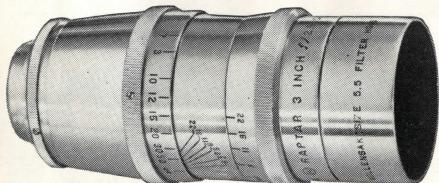
Aperture—f/2.5 to f/22 Filter Size—#5

F.M.—focusing mount

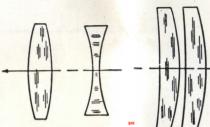
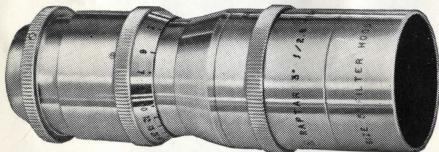
3" f/4 Telephoto Cine Raptar in F.M.



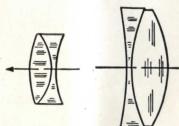
3" f/2.5 Telephoto Cine Raptar in F.M.



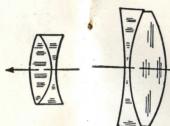
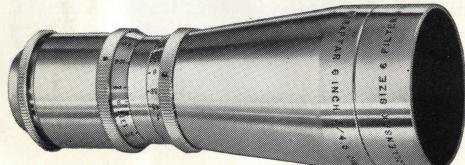
3" f/2.8 Telephoto Cine Raptar in F.M.



4" f/4.5 Telephoto Cine Raptar in F.M.



6" f/4.5 Telephoto Cine Raptar in F.M.



F.M.—Focusing Mount

CINE RAPTAR LENSES FOR 16mm. CAMERAS

A moderate speed telephoto with 3-time magnification. A popularly priced telephoto for the amateur photographer . . . \$60.50 no tax

Focusing Scale—3 feet to infinity

Aperture—f/4 to f/32 Filter Size—#4.5

High-speed telephoto with 3-time magnification. Excellent for taking far distant shots, landscapes, nature studies, sports, travel, in either color or black and white. Highest quality 3" lens in its field \$87.50 no tax

Focusing Scale—3 feet to infinity

Aperture—f/2.5 to f/22 Filter Size—#5.5

A smaller barrel diameter than 3" f/2.5 for use on cameras in combination with extreme wide angle lens . . . cameras with turret limitations. A high quality 4-element lens priced competitively with most 3-element telephotos of comparable speed \$68.50 no tax

Focusing Scale—3 feet to infinity

Aperture—f/2.8 to f/22 Filter Size—#5

A moderate speed telephoto with 4-time magnification . . . Highest quality 4" lens at this speed.

\$66 no tax

Focusing Scale—4.5 feet to infinity

Aperture—f/4.5 to f/32 Filter Size—#4.5

A moderate speed telephoto with 6-time magnification. Excellent for extreme close-ups of distant objects. Highest quality 6" lens at this speed \$90.75 no tax

Focusing Scale—6 feet to infinity

Aperture—f/4.5 to f/32 Filter Size—#6

OPTICAL GLASS, COATED FILTERS

Filters are indispensable for all movie makers. They help to dramatize your black and white and your color shots . . . control color values. In short, filters help add life and sparkle to your pictures . . . help lift them out of the ordinary . . . help make them unusual.

By using filters you will markedly improve sky and clouds, landscapes, seascapes, snow scenes, yachting shots, flowers, gardens, informal portraits outdoors. Filters help bring tonal values into line. They lighten some, darken others. In short, they help to achieve a degree of contrast between objects in your final film.

HAZE FILTERS: For use with color film because ultra-violet light records as violet. They are recommended particularly when making distant scenes, in shadows, and at high altitudes where excess ultra-violet light prevails. They are colorless and require no change in exposure. It is recommended a haze filter always be used with daylight Kodachrome.

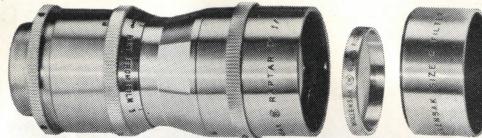
YELLOW FILTERS (Y-2, Y-4): For use with either ortho or pan film. A yellow filter darkens a blue sky, brings out the white clouds and foreground objects. It produces better contrast, and a more natural reproduction . . . is the most frequently used "sky" filter.

GREEN FILTER: Can be used only with pan films, in photographing landscapes, gardens, flower scenes where heavy masses of foliage dominate the picture. The green filter lightens the greens, improves the detail, which is usually lost on black and white film.

RED FILTER: Should be used only with pan or infra-red films. In outdoor scenes it will produce pronounced contrast, startlingly beautiful effects. It lightens red tremendously, darkens most of the other colors except orange and yellow, which it lightens slightly. It will sharply cut through atmospheric haze, strengthen distant detail. Moon-light effects obtainable by using a red filter and sun shade and shooting directly into the sun.

NEUTRAL DENSITY FILTERS (ND-2X, ND-4X): These filters reduce light intensity. Should be used under extremely bright conditions (such as photographs on the water) to avoid over-exposure.

CHROME A FILTER: For use with Kodachrome A (indoor, tungsten film) for photographing in daylight outdoors. Eliminates the necessity for changing to outdoor-type Kodachrome film.



No adapter; filters fit behind lens hood.

Wollensak filters are precision calibrated of solid-colored glass—not dyed gelatin between glass. Every piece of glass is carefully selected for shade and purity . . . carefully ground flat—no wedges—and polished to the same optical surface quality as Wollensak lenses. No power can be tolerated in filters which would cause a change of focus . . . could destroy clarity and definition. A quality lens deserves a quality filter. In addition all Wollensak filters are WOCOTED to eliminate bouncing light, flare, etc.

Wollensak all-glass filters are perfectly stable under heat or cold, in tropical humidity or desert aridness. They do not change color. Nothing to deteriorate or to distort image.

Filters are carefully edged and assembled in self-contained metal rings . . . protection against chipping and breakage . . . assurance of perfect alignment in your lens. Mounts are engraved for easy identification.

Wollensak filters fit lenses perfectly . . . do not change focal length . . . give the best the lens has to offer. Parallelism of surfaces is held within 3 minutes of arc or less, assuring quality of lens performance.

COLOR	SIZE 4	4.5	5	5.5	6
HAZE					
YELLOW (Y-2, Y-4)	\$2.00	\$2.00	\$2.25	\$2.50	\$2.50
GREEN					
RED					
NEUTRAL DENSITY (ND-2X, ND-4X)					
CHROME A					

COMPENSATING FINDERS

Since the angle of view covered by wide angle or telephoto lenses is different from that covered by normal focus lenses, special compensating viewfinders must be used if you are to see what you will get in your movies. Wollensak furnishes compensating finders for those cameras with provisions to accept accessory finders. These can be the slip-on type which slide over existing finder, a complete viewfinder scope furnished with a bracket, or, as in the case of some Bell & Howell cameras, positive finders.



Positive objective finders for 8mm & 16mm cameras.



A viewfinder scope with bracket.

Slip-on finders for 9mm & 6.5mm wide angle lenses.

POSITIVE OBJECTIVE FINDERS

FOR BELL AND HOWELL CAMERAS

These Wollensak finders are brass, chrome plated with coated objectives . . . a precision-made, long-life instrument.

Bell and Howell 8mm Auto 8—172A—172B Cameras:

Objective Finder For 6.5mm Wide Angle Lens	\$6.50
Objective Finder For 9mm Wide Angle Lens	6.50
Objective Finder For 1" Telephoto Lens	6.50
Objective Finder For 1 1/2" Telephoto Lens	6.50

Bell and Howell 8mm Tri Lens and 134TA Cameras:

Objective Finder For 6.5mm Wide Angle Lens	\$6.50
Objective Finder For 9mm Wide Angle Lens	6.50
Objective Finder For 1" Telephoto Lens	6.50
Objective Finder For 1 1/2" Telephoto Lens	6.50

Bell and Howell 16mm Cameras:

Objective Finder For 1/2" Wide Angle Lens	\$8.90
Objective Finder For 0.7" (17mm) Wide Angle Lens	8.90
Objective Finder For 1 1/2" Telephoto Lens	9.50
Objective Finder For 2" Telephoto Lens	8.90
Objective Finder For 2 1/2" Telephoto Lens	9.50
Objective Finder For 3" Telephoto Lens	8.90
Objective Finder For 4" Telephoto Lens	9.30
Objective Finder For 6" Telephoto Lens	10.50

FINDERS FOR 6.5mm WIDE ANGLE LENS

To fit Revere 60, 70 and 88	\$3.25
To fit Revere 99	3.75
To fit DeJur 100 and 300	3.75
To fit Keystone K8, K22, K40 and K45 (complete with bracket)	7.95

FINDERS FOR 9mm WIDE ANGLE LENS

To fit Revere 60, 70 and 88	\$3.25
To fit Revere 99	3.75
To fit DeJur 100 and 300	3.75
To fit Keystone K8, K22, K40 and K45 (complete with bracket)	7.95

Wollensak 8mm. Cine Raptar Lenses

fit the following cameras:

GROUP I

8mm Standard D Mount
(.484") Camera.

Keystone
Revere
Ampro
De Jur
Bolex H8
Perfex
Briskin
Franklin
Kodak Reliant

GROUP II

8mm Bell & Howell
Thread Mount (.590")
Cameras.

Bell & Howell Auto 8
Magazine
Bell & Howell Model
172A & 172B (Magazine)
Bell & Howell Model
134V & 134W

GROUP III

8mm Bell & Howell
Thread Mount (.298")
Cameras.

Bell & Howell Tri Lens
Bell & Howell 134TA

GROUP IV

8mm Bolex Thread
Mount (.307") Cameras.

Bolex L8

Prices of lenses for the above cameras are the same regardless of model or make. Specify group number when ordering lenses.

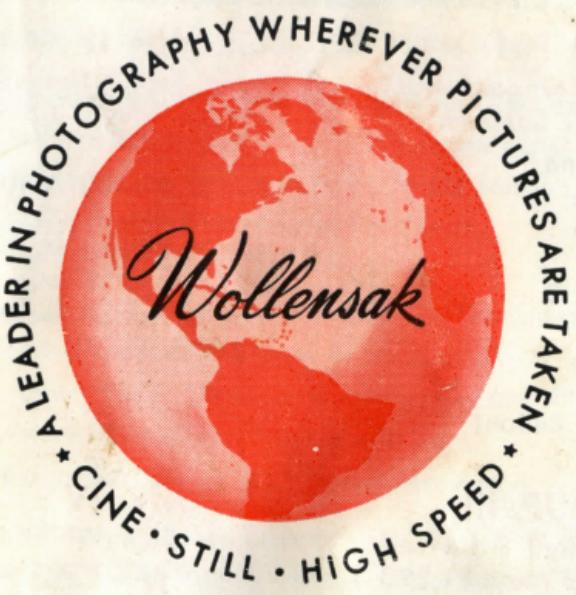
Wollensak 16mm. Cine Raptar Lenses

fit the following cameras:

Auricon
Bell & Howell
Bolex
Cinklox

Keystone
Pathé*
Revere
Victor

*Name of camera must be specified when ordering lenses.



Wollensak

THE SIGNATURE OF FINE LENSES

OPTICAL COMPANY
ROCHESTER 21, N. Y.