

Wollensak

RAPTAR TELEPHOTO AND WIDE ANGLE LENSES



Wollensak RAPTAR TELEPHOTO f/5.6 LENSES for still photography



• A Wollensak Raptar Telephoto is to your camera what a good telescope is to your eye . . . it brings distant images to you enlarged in sharpest detail. It offers an opportunity to greatly increase the scope of your work.

Sports events, nature study, travel, architectural and news photography . . . there are dozens of shots which call for a Raptar Telephoto. Many photographers find it well suited, also, as a portrait lens where long focus is necessary for true perspective and good modeling.

The advantage of telephoto design is its short back focus enabling the lens to be used on cameras with short bellows capacity. A camera equipped with a Raptar Telephoto will produce close-ups otherwise impossible with cameras equipped with a normal focus lens. The Raptar Telephoto lens is available mounted either in *Synchromatic* or *Non Synchromatic Shutters*.

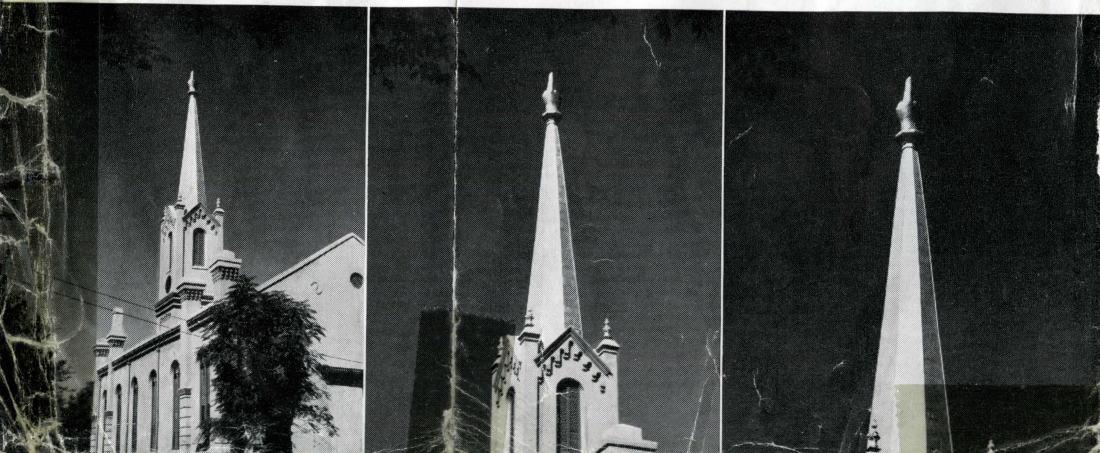
The Raptar Telephoto magnifies images in proportion to the focal length of a normal lens, i. e., the 15" focus f/5.6 Telephoto gives a magnification of $2\frac{1}{2}\times$ as compared with that of a $6\frac{3}{8}$ " lens, and $2\times$ magnification over that of a $7\frac{1}{2}$ " lens. The 10" gives $2\times$ magnification over a 5" focus lens; $1\frac{7}{8}\times$ magnification over a $5\frac{5}{8}$ " lens, and $1\frac{1}{2}\times$ magnification over a $6\frac{3}{8}$ " lens. The 8" telephoto magnifies $2\times$ over that of a 4" focus lens, and $1\frac{2}{3}\times$ over a 5" lens.

The speed of the Raptar Telephoto permits shots to be made under most lighting conditions at the faster shutter speeds. Lens surfaces are WOCOTED.

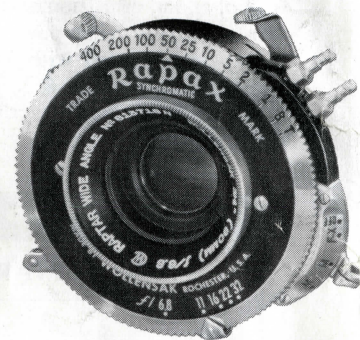
5" Raptar Series II
f/4.5

10" Raptar Telephoto
f/5.6

15" Raptar Telephoto
f/5.6



Wollensak WIDE ANGLE LENSES for maximum coverage



• One look through the ground glass of a camera equipped with a Wollensak Wide Angle Lens is enough for you to realize the many possibilities of covering wide areas close up. For architectural work indoors and out, group pictures, shots on shipboard, industrial work and advertising photographs, a wide angle lens is often required. Wollensak wide angle lenses are fully corrected to produce sharp, undistorted pictures in color or black and white. Each lens is WOCOTED which effectively reduces internal reflections and flare . . . greatly increases contrast and detail. Both the Raptar f/6.8 and the series 3A wide angle lenses are color corrected.

RAPTAR WIDE ANGLE f/6.8

• In comparison to a normal focal length lens, the Raptar Wide Angle allows approximately 69% more subject matter to be included. Its unusually large aperture for focusing makes it especially well adapted for photographing in dimly lighted interiors. It can be accurately focused at f/6.8; however, like most wide angle lenses, it must be stopped down to f/11 or smaller before making exposures. From f/11 to f/32 it gives the excellent corner definition of a normal focal length Raptar, and ample depth of field. Precise corrections, plus the advantage of speed and covering power make this lens one of the most valuable in any photographer's lens kit.

EXTREME WIDE ANGLE SERIES IIIa f/12.5

• The angle of view of the Series IIIa ranges from 84 degrees on 4 x 5 films to 90 degrees on 5 x 7 and 8 x 10 films. Banquet photographers find it indispensable where working space is so often confined. Moderately priced, it is a popular lens with many amateur, as well as commercial photographers.

The Series IIIa is fully corrected to give good definition at all apertures. For critical definition stop the lens down.



WHAT *Wollensak* QUALITY MEANS TO YOU

• Wollensak lenses are scientifically corrected for spherical and chromatic aberration, coma, distortion and astigmatism. Based on an optical design which greatly increases resolving power, you can be certain of all-over fine definition. Every Raptar is treated with Wollensak anti-reflection hard coating, WOCOTE (indicated the symbol $\text{\textcircled{C}}$).

Your Wollensak dealer will be glad to recommend the correct Wollensak Raptar for your specific needs.

SPECIFICATIONS

RAPTAR TELEPHOTO $f/5.6$ (WOCOTED)

Catalog Number	Size Inch	Equiv. Inch	Focus mm	Bellows Draw (flange focus) Required at Infinity	Barrel Size	Rapax Size	Alphax Size
1	$2\frac{1}{4} \times 3\frac{1}{4}$	8	202	5	3	2	2
2	$3\frac{1}{4} \times 4\frac{1}{4}$	10	254	$6\frac{1}{8}$	4	3	3
3	4×5	15	380	$9\frac{3}{16}$	6		4

RAPTAR WIDE ANGLE $f/6.8$ (WOCOTED)

Catalog Number	Size Inch	Equiv. Inch	Focus mm	Angle of View	Barrel Size	Rapax Size	Alphax Size
1	$3\frac{1}{4} \times 4\frac{1}{4}$	$2\frac{9}{16}$	65	$*88\frac{1}{2}^{\circ}$	1	1	1
2	4×5	$3\frac{1}{2}$	90	84°	1	1	1
3	5×7	$4\frac{1}{4}$	108	88°	2	2	2

SERIES IIIa EXTREME WIDE ANGLE $f/12.5$ (WOCOTED)

2	4×5	$3\frac{1}{2}$	90	84°	1	1	1
3	5×7	$4\frac{1}{4}$	108	88°	2	2	2
5	8×10	$6\frac{1}{4}$	159	90°	4	3	3

*When used on $2\frac{1}{4} \times 3\frac{1}{4}$, angle is 75°

These lenses are available in shutters with or without built-in synchronization.

Wollensak
MEANS FINE LENSES

OPTICAL CO. • ROCHESTER 5, N. Y.