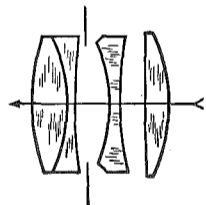




• The above photograph has been enlarged eight times, yet the smallest detail is accurately and faithfully reproduced from the original negative. Notice the sparkle and brilliance of the highlights . . . the crisp definition that extends to every corner. This is the kind of all-over sharpness you can demand and expect with a Wollensak Raptar Enlarging Lens.



RAPTAR is not a formula or construction, but a standard representing the highest quality in lens performance and optical design.

# RAPTAR

## ENLARGING LENSES

### Series f/4.5

Only by using a specific lens designed for a particular job can near-perfection in photographic reproduction be achieved. A lens which gives entirely satisfactory camera results may not be equally as good for use as an enlarging lens. The camera lens is designed for versatile recording of any image from closeup to infinity, with sufficient depth of field. The enlarging lens, however, is designed specifically for a flat field at short range to project from a flat surface to a flat surface.

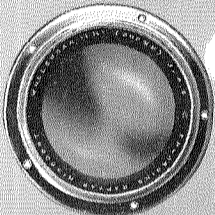
Since an enlarging lens is usually focused by visual inspection of the projected image, it is important that chromatic aberrations be exceptionally well corrected. Light should be distributed evenly over the entire print surface, with corners as fully lighted as the center portion of the enlargement. High resolving power without sacrifice of contrast produces overall sharp enlargements.



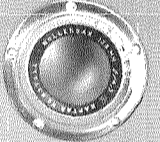
6" 162mm f/4.5



7 1/2" 190mm f/4.5



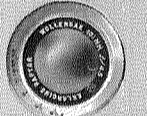
11 1/4" 302mm f/4.5



5 1/8" 135mm f/4.5



8 1/4" 210mm f/4.5



4" 101mm f/4.5



5" 127mm f/4.5

✓ **DEFINITION**—High resolving power without sacrifice of contrast—ability of the lens to separate images of closely spaced lines determines brilliance and clarity of your enlargements. Extreme flatness of field found in Raptar Enlarging Lenses, eliminates fuzzy, out-of-focus corners.

✓ **CONTRAST**—In a negative, internal reflections and flare affect highlight areas most. WOCOTING plus careful correction of Enlarging Raptars prevent dulling of highlights.

✓ **COLOR PURITY**—Raptar's precise color correction of lateral chromatic aberrations means excellent color register on your enlargements. Without such correction, various colors would magnify to slightly different degrees, causing color fringes.

✓ **LIGHT TRANSMISSION**—Even distribution of light over the entire print results in corners as carefully and accurately lighted as the center of the enlargement.

✓ **FOCAL LENGTH**—Various focal lengths permit equally fine definition and sharp reproduction overall, from miniature negatives 1 1/4 x 1 3/8 to 8 x 10.

✓ **WOCOTE**—Each Enlarging Raptar is specially treated with this Wollensak anti-reflecting hard coating to eliminate light reflections or flare from lens surfaces. The symbol © on every Raptar lens is your guarantee of greater contrast and brilliance.

inferior prints not acceptable to their standards of quality. From the smallest miniature negative to full 8x10 or larger prints, Wollensak Raptar Enlarging Lenses give enlarged prints the kind of over-all brilliance that is possible only with a fine lens.

For many years, Wollensak Enlarging Lenses have been first choice with men who have made photography and photographic equipment their life work. Today, with new improvements to assure finer, more accurate results, Wollensak Raptar Enlarging Lenses continue to maintain their outstanding reputation for highest quality.

Why do professionals, commercial photographers and leading salons everywhere use Raptar Enlarging Lenses? It's because they know from their own use and experience that Raptar produces crisp, brilliant enlargements with fine all-over sharpness . . . prints that capture all the warmth and detail of their best negatives. They know that special Wollensak design increases Raptar's resolving power for finest possible definition. They know, too, that WOCOTED Raptar Enlarging Lenses reduce flare and internal reflections for maximum highlight detail. And they know that Wollensak Raptar Lenses are free from the optical imperfections which produce distorted,

# RAPTAR ENLARGING LENSES FOR SPARKLING PRINTS . . .

## YOU SHOULD KNOW THIS STORY ABOUT LENSES

The use of Wollensak lenses by leading camera manufacturers and by millions of amateur and professional users is proof of Wollensak superiority. Here are some of the factors behind the excellence of Raptar camera and enlarging lenses:

1. Experience of more than fifty years in a field where master craftsmen are developed only through years of apprenticeship.
2. Quality control and rigid inspection *throughout* production, with final resolution and contrast tests.
3. Careful selection of highest quality materials from Wollensak's large stockpile of raw glass permits adherence to critical qualities included in original lens designs.
4. To meet rigid tolerances unsurpassed in the optical field, special tools are designed and built at Wollensak for particular requirements of a specific lens.
5. Precision mounting of lens elements in the lens barrel is as vital as lens quality itself to assure fine lens performance.
6. Wocoting—a long-lasting hard coating improved by Wollensak for utmost reduction of internal reflections and flare.
7. Consistency in uniformity—All Raptar lenses have the same high standards of performance.

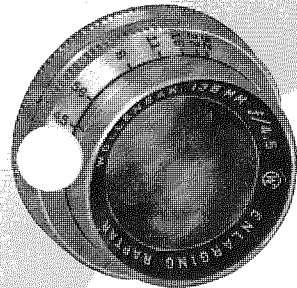
### SPECIFICATIONS RAPTAR ENLARGING f/4.5 (Wocoted)

Catalog Number	Equiv. Focus		Film Size	Mounting	List
	Inch	MM			
710	*2	50	1¼x1½	In No. 1 Iris Diaph. Barrel	\$26.50
711	*3	75	2¼x2½	In No. 1 Iris Diaph. Barrel	29.00
712	*3½	90	2¼x3¼	In No. 1 Iris Diaph. Barrel	30.00
713	*4	101	2¼x3½	In No. 1 Iris Diaph. Barrel	35.00
714	*5	127	3¼x4¼	In No. 2 Iris Diaph. Barrel	42.50
715	*5½	135	4 x 5	In No. 3 Iris Diaph. Barrel	45.00
716	*6½	162	4 x 5	In No. 4 Iris Diaph. Barrel	60.00
717	7½	190	5 x 7	In No. 5 Iris Diaph. Barrel	82.50
718	8½	210	5 x 8	In No. 6 Iris Diaph. Barrel	125.00
719	9½	241	6½x8½	In No. 6 Iris Diaph. Barrel	160.00
720	11½	302	8 x 10	In No. 7 Iris Diaph. Barrel	215.00

\*Supplied with click stops.

*Wollensak*

OPTICAL COMPANY  
ROCHESTER 21, N. Y.



**RAPTAR**  
ENLARGING LENSES

for professional and  
amateur use

*Wollensak*

Form No. 700—5M953LH

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