

MASTERPIECE

by Wollensak

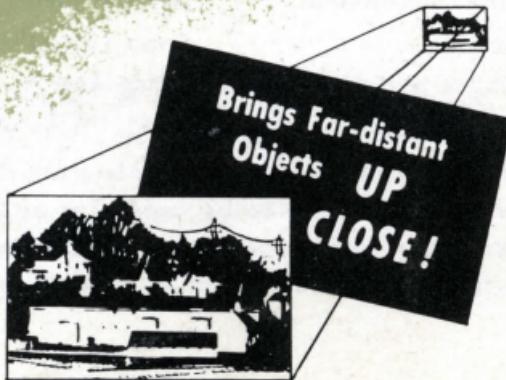
20"

FOTOTEL

f/6.3 LENS



WITH MIRROR OPTICS



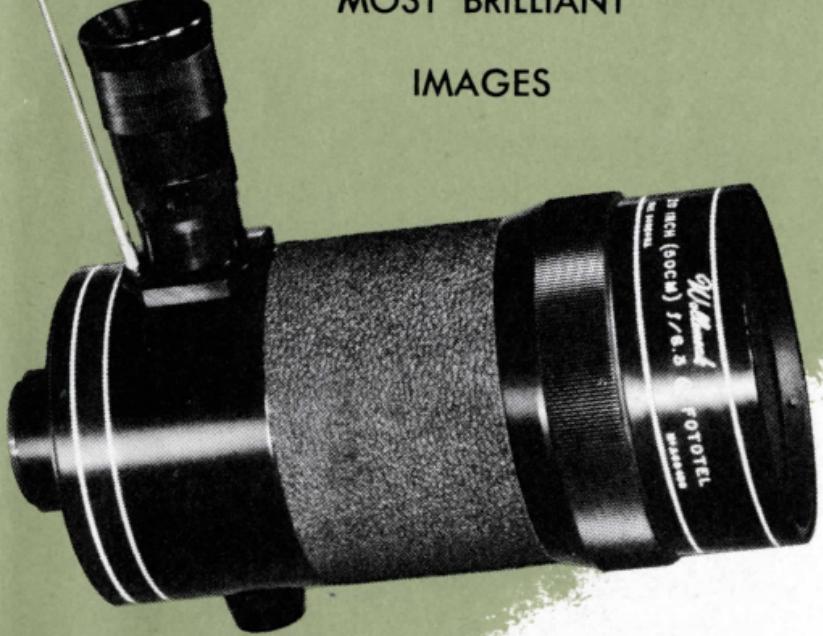
LIGHTER, SHORTER

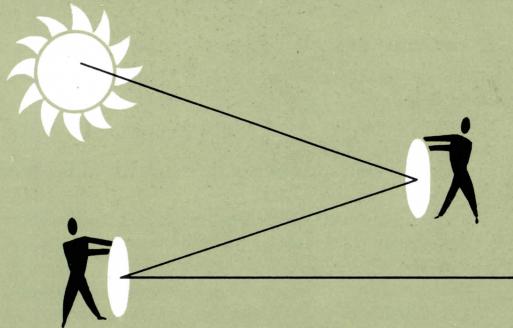
FOTOTEL f/6.3

DELIVERS

MOST BRILLIANT

IMAGES



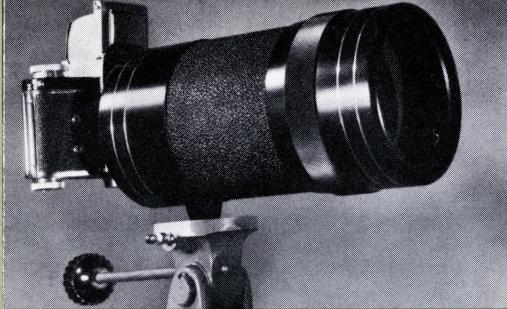


MIRROR OPTICS

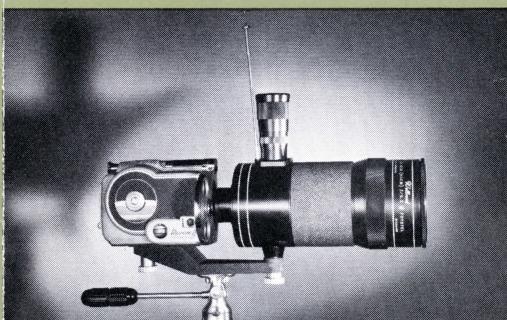
Probably the most important advantage of optical mirror systems is the complete absence of chromatic aberration (no special focusing for Infra-Red !!). There are no secondary color and no lateral color to fuzz up the image. Because the light path is "folded" three times within the system, the length and weight are less than those of an equivalent refractive telephoto objective, thereby attaining greater stability (extremely important for long focus objectives), ease of operation, and superior performance. Example: a conventional 20" EFL refractive telephoto objective would be 17" long measured from focal plane to front lens. The Fototel lens is only 10 1/4" long.

The Fotrels are concentric systems, therefore the straight line containing the center of curvature parallel to any given ray of light may be regarded as an axis of the system. There is no coma, astigmatism or distortion. This means that the high quality axial image is maintained at all extra axial image points.

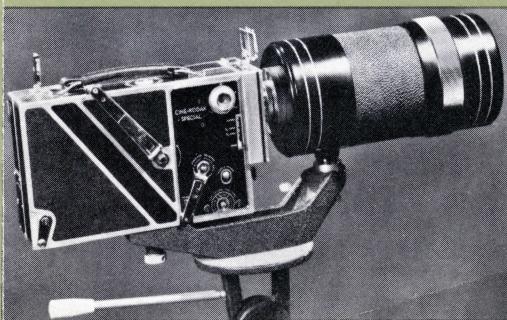
The mirror surfaces and all glass-to-air surfaces are treated with Wollensak anti-reflection hard coating, Wocote. This coating effectively reduces internal reflections, bouncing light and flare . . . greatly increases image contrast and brilliance.



20" FOTOTEL ON 35mm CAMERA



20" FOTOTEL ON 16mm REVERE CAMERA



20" FOTOTEL ON CINE CAMERA

I. OPTICAL SYSTEM

1. The optical system of the 20" f/6.3 Fototel Lens is based on a concentric Mirror System, consisting of a concave spherical mirror and a correcting lens. The latter serves a dual purpose, viz.:

- Optical correction of the spherical aberration of the concave mirror;
- "Folding back" of the light rays. This is achieved by aluminizing the central portion which forms a convex mirror.

The curvature of the image is eliminated by a slightly negative meniscus-shaped lens, the field flattener lens, with the result that a plane image field is produced.

2. The mirror system of the 20" f/6.3 Fototel differs from refractive lens systems by the following characteristics:

- Optimum combination of luminosity and high resolving power
- Simplicity of optical design
- Light weight and very short length
- Highest contrast and highest resolution of all longer focal length lenses
- Completely color corrected. No color aberrations in reflective (mirror) system

The Fototel lens is supplied in focusing mount with or without reflex focusing device, and equipped with tripod socket for amateur and professional ASA tripod standards.

II. OPTICAL AND MECHANICAL DATA

Optical data:

Relative aperture	f/6.3
Nominal focal length	20"
Focusing range	12' to infinity

Size of Image

The 20" f/6.3 Fototel is designed for an image size 24 x 36mm (for miniature cameras) or less (for cine cameras).

Weight

20" f/6.3 Fototel, without accessories: approx. 5 lbs.

III. ADAPTATION TO CAMERAS

Reflex Cameras

The 20" f/6.3 Fototel lens is available for the following makes of reflex cameras:

Make of Camera	Manufacturer	
Contax D (Pentax)	Zeiss Ikon Mechanik VEB, Dresden 21 A,	Germany
Alpa II	Pignons A. G., Ballaigues,	Switzerland
Praktica FX	Kamera Werkstatten, Niedersetzlitz,	Germany
Wrayflex	Wray Optical Works, Ltd., Bromley, Kent,	England
Rectaflex	Maison Rectaflex, Rome,	Italy
Exakta	Ihagee Kamera Werke A. G., Dresden A16,	Germany
	and others	

As each make of camera calls for a different adapter system, it is necessary to state the make and type of camera to be used. For adaptation to other makes of reflex cameras than those mentioned above write Wollensak.

\$450.00 each

Non-Reflex Cameras

The 20" f/6.3 Fototel is fitted with an incorporated reflex viewfinder. Focusing is effected on the ground glass of this reflex viewfinder.

The 20" f/6.3 Fototel lens is available for the following makes of cameras:

Make of Camera:	Manufacturer
Leica	Ernst Leitz, Wetzlar, Germany
Contax and others	Zeiss Ikon A. G. Stuttgart-S, Germany

When ordering it is necessary to state the make and type of non-reflex camera to be used. For adaptations to other makes of non-reflex cameras write Wollensak.

\$535.00

Cine Cameras

The 20" f/6.3 Fototel Lens is available for the following cameras. It is necessary to state the make and type of camera to be used.

Wollensak Fastax 16mm and 35mm
Wollensak 16mm—91-93
Revere 16mm—16-26
Cine Kodak Special I
Cine Kodak Special II
Mitchell 16mm and 35mm
Bell & Howell 16mm and 35mm and others

Supporting Brackets to adapt lens and camera to fit the tripod are available at additional cost.

Quotations will be submitted upon request. It is recommended the camera be forwarded to Wollensak for fitting the lens and/or installation of supporting bracket for camera and lens.

Test Films will be furnished for each lens installed on camera at the Wollensak Optical Company.

20" f/6.3 Fototel Lens for Motion Picture Camera without Reflex Housing

\$450.00

20" f/6.3 Fototel Lens for Motion Picture Cameras with Reflex Housing

\$535.00

Prices of 20" f/6.3 Fototel includes genuine leather carrying case.

Filters:

The following drop-in precision optical flat glass filters can be supplied:

Fototel Filters	Red 8X
Fototel Filters	Yellow 2X
Fototel Filters	Orange 4X
Fototel Filters	Haze 1X
Fototel Filters	ND 2X
Fototel Filters	ND 4X

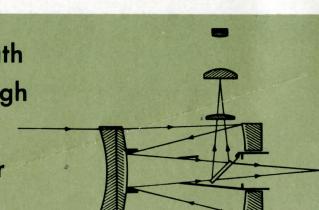
\$16.50 each

Light Path

Through

Reflex

Finder



Fototel Lenses

	List
20" f/6.3 Wollensak Fototel Lens for 35mm Reflex Cameras without Reflex Housing complete with genuine leather case	450.00
20" f/6.3 Wollensak Fototel Lens for 35mm Cameras with Reflex Housing complete with genuine leather case	535.00
20" f/6.3* Wollensak Fototel Lens for Motion Picture Cameras without Reflex Housing complete with genuine leather case	450.00
20" f/6.3* Wollensak Fototel Lens for Motion Picture Cameras with Reflex Housing complete with genuine leather case	535.00

*Supporting Brackets to adapt lens and camera to fit the tripod are available at additional cost. Quotations will be submitted upon request. It is recommended the camera be forwarded to Wollensak for fitting the lens and/or installation of supporting bracket for camera and lens.

Fototel Filters

**3 1/2" Diameter x 1/4" Thick
Precision Optical Glass**

	List
Fototel Filter RED 8X	\$16.50
Fototel Filter YELLOW 2X	16.50
Fototel Filter ORANGE 4X	16.50
Fototel Filter HAZE 1X	16.50
Fototel Filter ND 2X	16.50
Fototel Filter ND 4X	16.50

**WOLLENSAK
OPTICAL COMPANY**

Rochester 21, New York