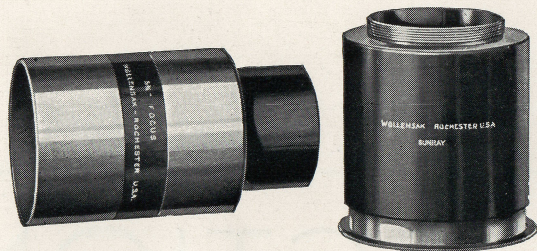


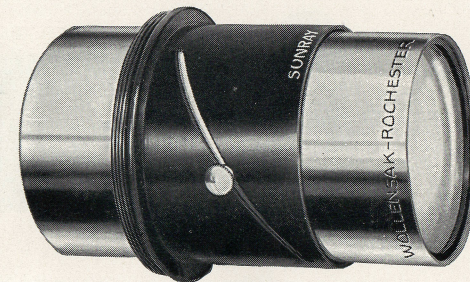
# PROJECTION LENSES



WOLLENSAK



# SUNRAY



## MOTION PICTURE PROJECTION LENSES

Wollensak Sunray Projection lenses are computed to give maximum screen brilliancy and contrast between the black and white.

Good illumination, flat field, and sharp definition are fundamentals of good projection lenses and distinguishing features of the Sunray.

Wollensak Sunray Projection lenses are made of the finest optical glass and are ground and polished with extreme accuracy by the same workmen who make the other famed Wollensak lenses and precision instruments.

As the quality of a lens rests in a measure upon its mounting, utmost care and exactness is exercised to maintain true mechanical fitting and sturdy construction.

These lenses are available in mountings to fit most all projection machines on the market today.

**SUNRAY SERIES O**—Outside diameter of tube  $1\frac{43}{64}$ ". Focal lengths graded in quarter inches from 2" up..... \$10.00

**NO. O FOCUSING MOUNT**—for above..... 5.00

**SUNRAY SERIES I**—Outside diameter of tube  $1\frac{15}{16}$ ". Focal lengths graded in quarter inches from 2" up..... 20.00

**NO. 1 FOCUSING MOUNT**—for above..... 5.00

**SUNRAY SERIES II**—Outside diameter of tube  $2\frac{23}{32}$ ". Focal lengths graded in quarter inches from 4" up..... 50.00

**NO. 2 FOCUSING MOUNT**—for above..... 10.00

## STEREOPTICON PROJECTION LENSES

Lantern slides and opaque projection, like motion pictures, require lenses with accurate optical corrections to bring out the fine photographic detail. The Sunray Stereopticon lenses possess the same fine optics, materials, and mountings that enter into the making of the popular Sunray motion picture lenses. They are supplied in a spiral focusing mount that permits quick and accurate focusing.

**QUARTER SIZE**—Outside diameter of lens tube  $2\frac{1}{8}$ ". Outside diameter of flange thread  $2\frac{7}{32}$ ". Focal lengths graded in inches from six inches up. \$15.00

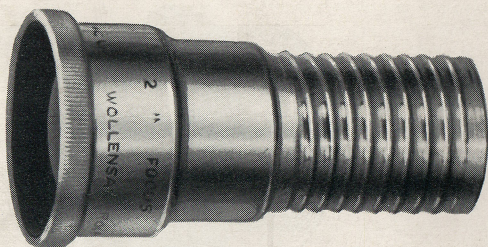
**HALF SIZE**—Outside diameter of lens tube  $2\frac{1}{2}$ ". Outside diameter of flange thread  $2\frac{31}{32}$ ". Focal lengths graded in inches from ten inches up. \$22.50

## SOUND REPRODUCING UNITS

The performance of Wollensak sound units has made many friends since its introduction to the motion picture field, and is now standard equipment on many sound heads on the market.

The optical system consists of precise micro-objective lenses with the condensing system accurately arranged to produce a fine, clean beam of light that will cut the high cycles with surprising fidelity. Each unit is mounted in an oil proof casing of sturdy construction.

**CODE M—SOUND REPRODUCING UNIT**  
For either 16mm. or 35mm..... \$15.00



## SUNRAY PROJECTION LENSES

for 8 mm. and 16 mm.

Ever since the inception of amateur movies the Wollensak Company has been manufacturing Sunray Projection lenses for fine amateur projection machines to produce clear and brilliant screen images.

The 2 inch focus is standard on projectors showing normal size pictures in the average home. Confined quarters require a shorter focus lens for the same size picture while a longer focus lens is required for the same results over a longer projection range.

The Sunray Projection lenses fit practically all machines, and are standard equipment on many of the leading amateur size projectors.

### 16 mm. PROJECTION LENSES

$\frac{3}{4}$ "	Focus Sunray No. 106 f3.....	\$ 8.50
1"	Focus Sunray No. 106 f2.46.....	8.50
$1\frac{1}{2}$ "	Focus Sunray No. 106 f1.8.....	8.50
2"	Focus Sunray No. 106 f2.....	8.50
*2"	Focus Sunray No. 107 f1.6.....	15.00
3"	Focus Sunray No. 107 f2.3.....	15.00
$3\frac{1}{2}$ "	Focus Sunray No. 107 f2.7.....	15.00
4"	Focus Sunray No. 107 f2.8.....	15.00

Spiral tube diameters 1".

\* Spiral tube diameters 1" or  $1\frac{5}{32}$ ".

### 8 mm. PROJECTION LENSES

$\frac{3}{4}$ "	Focus Sunray No. 117 f1.8.....	\$12.50
1"	Focus Sunray No. 117 f1.6.....	12.50
$1\frac{1}{2}$ "	Focus Sunray No. 117 f2.....	12.50

Spiral tube diameter  $\frac{11}{16}$ " or  $\frac{7}{8}$ ".