

# PRICE LIST

Wollensak Photo and Cine Lenses,  
Shutters and Accessories

Effective December 1, 1947

*Prices may be changed without notice, and are subject to any other charges that may be imposed by any Government agency.*

**WOLLENSAK OPTICAL COMPANY**  
ROCHESTER, NEW YORK, U. S. A.

## RAPTAR SERIES Ia f6.3-f7.7 (Wocoted)

| CAT. NO. | SIZE INCH     | EQUIV. FOCUS |     | FRONT FOCUS INCH | REAR FOCUS INCH | SPEED f | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------|---------------|--------------|-----|------------------|-----------------|---------|----------------|----------------|----------------|---------------|--------------------|---------------------|
|          |               | INCH         | mm  |                  |                 |         |                |                |                |               |                    |                     |
| 1        | 3 1/4 x 4 1/4 | 4 3/4        | 120 | 8 1/4            | 8 1/4           | 6.3     | \$ 64.75       | \$ 74.50       | \$ 61.75       |               | \$ 10.79           | \$ 8.64             |
| 1a       | 3 1/4 x 4 1/4 | 5 1/8        | 130 | 10               | 8 1/4           | 6.8     | 70.50          | 80.25          | 67.50          |               | 11.75              | 9.59                |
| 2        | 4 x 5         | 5 3/4        | 146 | 10               | 10              | 6.3     | 74.00          | 89.50          |                | \$ 80.75      | 12.34              | 10.16               |
| 2a       | 4 x 5         | 5 3/4        | 146 | 12 3/4           | 8 1/4           | 7.7     | 77.75          | 93.25          |                | 84.50         | 12.96              | 10.79               |
| 2b       | 4 x 5         | 6 1/2        | 165 | 12 3/4           | 10              | 6.8     | 80.75          | 96.25          |                | 87.50         | 13.45              | 11.30               |
| 3        | 5 x 7         | 7            | 178 | 15 1/2           | 10              | 7.7     | 93.25          | 117.25         | 110.00         |               | 15.55              | 13.40               |
| 3a       | 5 x 7         | 7 1/4        | 184 | 12 3/4           | 12 3/4          | 6.3     | 96.75          | 120.75         | 113.50         |               | 16.63              | 13.97               |
| 3b       | 5 x 8         | 8 1/4        | 210 | 15 1/2           | 12 3/4          | 6.8     | 105.50         | 126.50         | 119.25         |               | 17.59              | 14.92               |
| 3c       | 5 x 8         | 8 3/4        | 222 | 20               | 12 3/4          | 7.7     | 113.75         | 134.75         | 127.50         |               | 18.96              | 16.30               |
| 4        | 6 1/2 x 8 1/2 | 9            | 229 | 15 1/2           | 15 1/2          | 6.3     | 116.25         | 137.25         | 130.00         |               | 19.38              | 16.73               |
| 4a       | 6 1/2 x 8 1/2 | 10           | 254 | 20               | 15 1/2          | 6.8     | 138.50         | 159.50         | 152.25         |               | 23.71              | 20.42               |
| 4b       | 6 1/2 x 8 1/2 | 11           | 279 | 25 1/2           | 15 1/2          | 7.7     | 152.25         |                |                | 162.25        | 25.38              | 22.09               |
| 5        | 8 x 10        | 11 1/2       | 292 | 20               | 20              | 6.3     | 160.25         |                |                | 170.25        | 26.71              | 23.45               |
| 5a       | 8 x 10        | 13           | 330 | 25 1/2           | 20              | 6.8     | 174.25         |                |                | 184.25        | 29.04              | 25.78               |
| 6        | 10 x 12       | 14           | 356 | 31               | 20              | 7.7     | 209.75         |                |                | 219.75        | 35.38              | 31.67               |
| 6a       | 10 x 12       | 14 3/4       | 375 | 25 1/2           | 25 1/2          | 6.3     | 231.75         |                |                | 245.75        | 38.63              | 34.92               |
| 7        | 11 x 14       | 16 1/4       | 413 | 31               | 25 1/2          | 6.8     | 246.00         |                |                | 260.00        | 41.00              | 37.30               |
| 7a       | 11 x 14       | 17 1/2       | 444 | 31               | 31              | 6.8     | 267.00         |                |                | 281.00        | 44.50              | 40.82               |

## RAPTAR SERIES II f4.5 (Wocoted)

| CATALOG NUMBER | SIZE INCH     | EQUIV. FOCUS |     | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------------|---------------|--------------|-----|----------------|----------------|----------------|---------------|--------------------|---------------------|
|                |               | INCH         | mm  |                |                |                |               |                    |                     |
| 000            | 1 x 1 1/2     | 2            | 50  | \$ 27.75       |                | \$ 22.75       |               | \$ 4.63            | \$ 2.47             |
| 00             | 1 5/8 x 2 1/2 | 3            | 75  | 30.00          | \$39.75        | 27.00          |               | 5.00               | 2.84                |
| 0              | 2 1/4 x 3 1/4 | 3 1/2        | 90  | 35.25          | 45.00          | 32.25          |               | 5.88               | 3.70                |
| 0-1            | 2 1/4 x 3 1/4 | 4            | 101 | 41.75          | 51.50          | 38.75          |               | 6.96               | 4.79                |
| 1              | 3 1/4 x 4 1/4 | 5            | 127 | 43.00          | 58.50          |                | \$ 49.75      | 7.17               | 5.00                |
| *1-2           | 4 x 5         | 5 5/16       | 135 | 46.00          | 61.50          |                | 52.75         | 7.67               | 5.50                |
| 2              | 4 x 5         | 6 3/8        | 162 | 59.50          | 80.50          | 73.25          |               | 9.92               | 7.26                |
| 3              | 5 x 7         | 7 1/2        | 190 | 75.50          |                | 89.25          |               | 12.58              | 9.94                |
| 3a             | 5 x 8         | 8 1/4        | 210 | 108.25         |                |                | 118.25        | 18.04              | 14.74               |
| 4              | 6 1/2 x 8 1/2 | 9 1/2        | 241 | 147.50         |                |                | 157.50        | 24.59              | 21.31               |
| 5              | 8 x 10        | 11 7/8       | 302 | 193.00         |                |                | 207.00        | 32.17              | 28.49               |

Speed f4.7

## RAPTAR SERIES IV f6.3 (Wocoted)

| CATALOG NUMBER | SIZE INCH     | EQUIV. FOCUS |     | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------------|---------------|--------------|-----|----------------|----------------|----------------|---------------|--------------------|---------------------|
|                |               | INCH         | mm  |                |                |                |               |                    |                     |
| 000            | 1 x 1 1/2     | 2            | 50  | \$ 25.00       |                | \$ 20.00       |               | \$ 4.17            | \$ 1.99             |
| 00             | 1 5/8 x 2 1/2 | 3            | 75  | 27.75          |                | 22.75          |               | 4.63               | 2.47                |
| 0              | 2 1/4 x 3 1/4 | 3 1/2        | 90  | 30.50          |                | 27.50          |               | 5.08               | 2.94                |
| 0-1            | 2 1/4 x 3 1/4 | 4            | 101 | 33.00          | \$ 42.75       | 30.00          |               | 5.50               | 3.33                |
| 1              | 3 1/4 x 4 1/4 | 5            | 127 | 36.25          | 46.00          | 33.25          |               | 6.04               | 3.89                |
| 2              | 4 x 5         | 6 3/8        | 162 | 44.25          | 59.75          |                | \$ 51.00      | 7.38               | 5.23                |
| 3              | 5 x 7         | 7 1/2        | 190 | 59.00          | 80.00          |                | 72.75         | 9.84               | 7.18                |
| 4              | 6 1/2 x 8 1/2 | 9 1/2        | 241 | 93.50          | 114.50         | 107.25         |               | 15.59              | 12.93               |
| 5              | 8 x 10        | 11 7/8       | 302 | 115.75         |                |                | 129.50        | 19.29              | 16.64               |

## RAPTAR PROCESS f10 (Wocoted) AND PRISMS

| CAT. NO. | EQUIV. FOCUS |     | PLATES COVERED FOR REDUCTION INCH | PLATES COVERED FOR FULL-SIZE COPY INCH | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER | *PRISMS |          |         |
|----------|--------------|-----|-----------------------------------|----------------------------------------|----------------|----------------|----------------|---------------|--------------------|---------------------|---------|----------|---------|
|          | INCH         | mm  |                                   |                                        |                |                |                |               |                    |                     | SIZE    | PRICE    | TAX     |
| 4        | 10 3/4       | 260 | 6 1/2 x 8 1/2                     | 10x12                                  | \$116.25       | \$140.25       | \$133.00       | \$123.00      | \$19.38            | \$17.20             | 2       | \$105.75 | \$17.63 |
| 5        | 14           | 355 | 8 x 10                            | 11x14                                  | 152.25         | 173.25         | 166.00         |               | 25.38              | 22.71               | 2 1/2   | 115.50   | 19.25   |
| 6        | 16           | 406 | 10 x 12                           | 12x15                                  | 183.25         |                | 197.00         |               | 30.54              | 27.89               | 3       | 169.75   | 28.29   |
| 7        | 19           | 482 | 12 x 15                           | 14x17                                  | 212.00         |                |                | 222.00        | 35.34              | 32.07               | 3 1/2   | 205.25   | 34.21   |
| 9        | 25           | 635 | 16 x 20                           | 20x24                                  | 302.75         |                |                | 316.75        | 50.46              | 46.75               |         |          |         |

Prisms—Not coated. Extra charge for fitting Prisms to Lenses of other makes.

Process Lenses supplied with slotted barrel and one waterhouse stop.

## SERIES IIIa EXTREME WIDE ANGLE f12.5 (Wocoted)

| CATALOG NUMBER | SIZE INCH | EQUIV. FOCUS |     | ANGLE OF VIEW | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------------|-----------|--------------|-----|---------------|----------------|----------------|----------------|---------------|--------------------|---------------------|
|                |           | INCH         | mm  |               |                |                |                |               |                    |                     |
| 2              | 4x5       | 3 1/2        | 90  | 84°           | \$ 35.50       | \$ 45.25       | \$ 32.50       |               | \$ 5.92            | \$ 3.75             |
| 3              | 5x7       | 4 1/4        | 108 | 90°           | 39.75          | 55.25          |                | \$ 46.50      | 6.63               | 4.46                |
| 5              | 8x10      | 6 1/4        | 159 | 90°           | 55.00          | 76.00          | 68.75          |               | 9.17               | 6.51                |

## RAPTAR WIDE ANGLE f6.8 (Wocoted)

| CATALOG NUMBER | SIZE INCH     | EQUIV. FOCUS |     | ANGLE OF VIEW | BARREL W/O TAX | RAPAX† W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------------|---------------|--------------|-----|---------------|----------------|----------------|----------------|---------------|--------------------|---------------------|
|                |               | INCH         | mm  |               |                |                |                |               |                    |                     |
| 1              | 3 1/4 x 4 1/4 | 2 9/16       | 65  | 88 1/2°       | \$ 52.25       | \$ 62.00       | \$ 49.25       |               | \$ 8.71            | \$ 6.55             |
| 2              | 4 x 5         | 3 1/2        | 90  | 84°           | 55.00          | 64.75          | 52.00          |               | 9.17               | 7.03                |
| 3              | 5 x 7         | 4 1/4        | 108 | 90°           | 60.75          | 76.25          |                | \$ 67.50      | 10.13              | 7.98                |

Prices of lenses in Shutters do not include wire releases.  
For Synchronic Rapax, see page 4.

# RAPTAR ENLARGING f4.5 (Wocoted)

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| CATALOG NUMBER | SIZE INCH     | EQUIV. FOCUS |     | BARREL W/O TAX | TAX     |
|----------------|---------------|--------------|-----|----------------|---------|
|                |               | INCH         | mm  |                |         |
| 000            | 1 1/4 x 1 5/8 | 2            | 50  | \$ 18.75       | \$ 3.13 |
| 00             | 2 1/4 x 2 1/4 | 3            | 75  | 21.50          | 3.58    |
| 0              | 2 1/4 x 3 1/4 | 3 1/2        | 90  | 23.75          | 3.96    |
| 0-1            | 2 1/4 x 3 1/4 | 4            | 101 | 27.50          | 4.58    |
| 1              | 3 1/4 x 4 1/4 | 5            | 127 | 34.50          | 5.75    |
| 1-2            | 4 x 5         | 5 1/8        | 135 | 39.50          | 6.58    |
| 2              | 4 x 5         | 6 3/8        | 162 | 48.50          | 8.08    |
| 3              | 5 x 7         | 7 1/2        | 190 | 67.50          | 11.25   |
| 3a             | 5 x 8         | 8 1/4        | 210 | 96.25          | 16.04   |
| 4              | 6 1/2 x 8 1/2 | 9 1/2        | 241 | 122.50         | 20.42   |

SPECIAL ADAPTER for fitting above 2", 3" and 3 1/4" Focus Lenses to Leica Enlargers \$2.25

# RAPTAR TELEPHOTO f5.6 (Wocoted)

| CATALOG NUMBER | SIZE INCH                      | EQUIV. FOCUS |     | BARREL W/O TAX | ALPHAX W/O TAX | BETAX W/O TAX | RAPAX W/O TAX | TAX LENS IN BARREL | TAX LENS IN SHUTTER |
|----------------|--------------------------------|--------------|-----|----------------|----------------|---------------|---------------|--------------------|---------------------|
|                |                                | INCH         | mm  |                |                |               |               |                    |                     |
| 1              | 2 1/4 x 3 1/4<br>3 1/4 x 4 1/4 | 8            | 202 | \$ 89.50       |                |               | \$105.00      | \$ 14.92           | \$ 12.75            |
| 2              | 3 1/4 x 4 1/4<br>4 x 5         | 10           | 254 | 120.00         | \$133.75       |               | 141.00        | 20.00              | 17.34               |
| 3              | 4 x 5<br>5 x 7                 | 15           | 380 | 172.50         |                | \$182.50      |               | 28.75              | 25.46               |

# RAPTAR CINE LENSES (Wocoted) AND FILTERS FOR 8mm MOVIE CAMERAS

| EQUIV. FOCUS |    | SPEED f | FOCUSING MOUNT W/O TAX | IRIS DIAPHRAGM BARREL W/O TAX | TAX     | FILTER ANY COLOR W/O TAX | TAX ON FILTER |
|--------------|----|---------|------------------------|-------------------------------|---------|--------------------------|---------------|
| INCH         | mm |         |                        |                               |         |                          |               |
| 1/2          | 13 | 1.9     | \$47.50                |                               | \$ 7.92 | \$ 2.50                  | \$ .42        |
| 1/2          | 13 | 2.5     |                        | \$18.00                       | 3.00    | 2.50                     | .42           |
| 1            | 25 | 2.5     | 42.75                  |                               | 7.13    | 4.00                     | .67           |
| 1 1/2        | 38 | 3.5     | 47.50                  |                               | 7.92    | 4.00                     | .67           |

WIDE ANGLE ATTACHMENT (Wocoted) for 13 mm focus lenses \$29.75 W/O Tax, Tax \$4.96.

# RAPTAR CINE LENSES (Wocoted) AND FILTERS FOR 16mm MOVIE CAMERAS

| EQUIV. FOCUS |     | SPEED f | FOCUSING MOUNT W/O TAX | IRIS DIAPHRAGM BARREL W/O TAX | TAX                 | FILTER ANY COLOR W/O TAX | TAX ON FILTER |
|--------------|-----|---------|------------------------|-------------------------------|---------------------|--------------------------|---------------|
| INCH         | mm  |         |                        |                               |                     |                          |               |
| 1 1/8        | 17  | 2.7     | \$47.50(1)             | \$32.50(2)                    | \$7.92(1) \$5.42(2) | \$ 4.00                  | \$ .67        |
| 1            | 25  | 1.9     | 52.50                  |                               | 8.75                | 4.00                     | .67           |
| 1            | 25  | 2.5     | 42.75(1)               | 20.00(2)                      | 7.13(1) 3.33(2)     | 4.00(1) 2.50(2)          | .67(1) .42(2) |
| 2            | 50  | 1.9     | 82.50                  |                               | 13.75               | 5.70                     | .95           |
| 2            | 50  | 3.5     | 45.00                  |                               | 7.50                | 4.00                     | .67           |
| 3            | 75  | 4.      | 50.00                  |                               | 8.34                | 4.00                     | .67           |
| 4            | 101 | 4.5     | 60.00                  |                               | 10.00               | 4.00                     | .67           |
| 6            | 152 | 4.5     | 82.50                  |                               | 13.75               | 5.70                     | .95           |

Supplied in either "A" mount (5mm) or "C" mount (4.2mm) thread.

ADAPTER to fit 16mm lenses to 8mm cameras..... \$3.00.

# STANDARD FLANGES

| THREAD DIAM. INCH | PRICE  | TAX   | THREAD DIAM. INCH | PRICE  | TAX   | THREAD DIAM. INCH | PRICE  | TAX   |
|-------------------|--------|-------|-------------------|--------|-------|-------------------|--------|-------|
| 5/8" to 1"        | \$1.00 | ..... | 2 9/16" to 3"     | \$2.50 | ..... | 4 1/16" to 4 1/2" | \$4.00 | ..... |
| 1 1/16" to 2"     | 1.50   | ..... | 3 1/16" to 3 1/2" | 3.00   | ..... | 4 9/16" to 5 1/2" | 5.00   | ..... |
| 2 1/16" to 2 1/2" | 2.00   | ..... | 3 9/16" to 4"     | 3.50   | ..... |                   |        |       |

Available for Wollensak Mountings only.

# LENS CAPS

| INSIDE DIAM. | PRICE  | TAX   | INSIDE DIAM. | PRICE  | TAX   | INSIDE DIAM. | PRICE  | TAX   |
|--------------|--------|-------|--------------|--------|-------|--------------|--------|-------|
| 1" and under | \$ .95 | ..... | 3" and under | \$1.60 | ..... | 5" and under | \$2.30 | ..... |
| 2" and under | 1.30   | ..... | 4" and under | 2.15   | ..... | Over 5"      | 2.55   | ..... |

# ACCESSORIES

|                                              | TAX    |                                                                        | TAX    |
|----------------------------------------------|--------|------------------------------------------------------------------------|--------|
| Diaphragm scales, per set.....               | \$1.50 | 7" and 10" Deluxe all metal chrome plated cable releases, W/O Tax..... | \$1.50 |
| Wocote Lens Cleaning Tissue (100 sheets) ..  | .35    | 18" Deluxe all metal chrome plated cable releases, W/O Tax.....        | 3.00   |
| Wocote Lens Cleaner, per bottle.....         | .35    | 30" Deluxe all metal chrome plated cable releases, W/O Tax.....        | 4.50   |
| Electrical connecting cords for Synchromatic |        |                                                                        |        |
| Rapax shutters.....                          | 1.75   |                                                                        |        |

## RAPAX SHUTTER

| SIZE | MAXIMUM DIAPHRAGM OPENING |      | LENS MOUNT THREAD DIAMETER |                | SPEEDS               | FLANGE DIAMETER |                 | PRICE   | TAX   |
|------|---------------------------|------|----------------------------|----------------|----------------------|-----------------|-----------------|---------|-------|
|      | INCH                      | mm   | FRONT INCHES               | REAR INCHES    |                      | INSIDE, INCHES  | OUTSIDE, INCHES |         |       |
| 1    | $\frac{3}{8}$             | 20   | $\frac{3}{8}$              | $1\frac{1}{8}$ | 1 to $\frac{1}{400}$ | $1\frac{1}{8}$  | $1\frac{1}{8}$  | \$22.75 | ..... |
| 2    | $1\frac{1}{4}$            | 25.4 | $1\frac{1}{4}$             | $1\frac{1}{4}$ | 1 to $\frac{1}{400}$ | $1\frac{1}{4}$  | $1\frac{1}{4}$  | 28.50   | ..... |
| 3    | $1\frac{1}{2}$            | 32   | $1\frac{1}{2}$             | $1\frac{3}{4}$ | 1 to $\frac{1}{200}$ | $1\frac{1}{2}$  | $2\frac{1}{8}$  | 37.00   | ..... |

Prices do not include wire releases.

SYNCHROMATIC-RAPAX SHUTTERS with full synchronization for "F" and "M" type lamps. Also "X" setting for use with Electronic High Speed Lamps such as Kodatron and Wabash Electroflash, available in No. 1, No. 2 and No. 3 sizes. ....\$17.50 extra.

"X" TYPE SYNCHROMATIC-RAPAX SHUTTERS for use with Electronic High Speed Lamps, such as Kodatron, and Wabash Electroflash. For press and commercial use, in No. 2 and No. 3 sizes. ....\$7.50 extra.

## ALPHAX SHUTTER

| SIZE | MAXIMUM DIAPHRAGM OPENING |      | LENS MOUNT THREAD DIAMETER |                | SPEEDS                            | FLANGE DIAMETER |                 | PRICE   | TAX   |
|------|---------------------------|------|----------------------------|----------------|-----------------------------------|-----------------|-----------------|---------|-------|
|      | INCH                      | mm   | FRONT INCHES               | REAR INCHES    |                                   | INSIDE, INCHES  | OUTSIDE, INCHES |         |       |
| 0    | $\frac{3}{8}$             | 14   | $\frac{3}{8}$              | $\frac{3}{8}$  | $\frac{1}{10}$ to $\frac{1}{200}$ | $\frac{1}{8}$   | $1\frac{1}{8}$  | \$ 8.00 | ..... |
| 1    | $\frac{1}{2}$             | 18.7 | $\frac{1}{2}$              | $1\frac{1}{4}$ | $\frac{1}{10}$ to $\frac{1}{200}$ | $1\frac{1}{2}$  | $1\frac{1}{2}$  | 10.00   | ..... |
| 3    | $1\frac{1}{8}$            | 34.9 | $1\frac{1}{4}$             | $1\frac{3}{4}$ | 1 to $\frac{1}{100}$              | $1\frac{1}{4}$  | $2\frac{1}{8}$  | 29.75   | ..... |

Prices do not include wire releases.

## BETAX SHUTTER

| SIZE | MAXIMUM DIAPHRAGM OPENING |      | LENS MOUNT THREAD DIAMETER |                | SPEEDS                           | FLANGE DIAMETER |                 | PRICE   | TAX   |
|------|---------------------------|------|----------------------------|----------------|----------------------------------|-----------------|-----------------|---------|-------|
|      | INCH                      | mm   | FRONT INCHES               | REAR INCHES    |                                  | INSIDE, INCHES  | OUTSIDE, INCHES |         |       |
| 2    | $1\frac{1}{4}$            | 25.4 | $1\frac{1}{4}$             | $1\frac{1}{4}$ | $\frac{1}{2}$ to $\frac{1}{100}$ | $1\frac{1}{2}$  | $1\frac{7}{8}$  | \$19.75 | ..... |
| 4    | $1\frac{3}{4}$            | 44.7 | $2\frac{1}{4}$             | $2\frac{1}{4}$ | $\frac{1}{2}$ to $\frac{1}{50}$  | $2\frac{1}{2}$  | $3\frac{1}{2}$  | 29.75   | ..... |
| 5    | $2\frac{1}{2}$            | 56.7 | $2\frac{1}{2}$             | $2\frac{1}{2}$ | $\frac{1}{2}$ to $\frac{1}{50}$  | $3\frac{3}{4}$  | $4\frac{3}{4}$  | 36.25   | ..... |

Prices do not include wire releases.

## LENS BARRELS

| SIZE | MAXIMUM DIAPHRAGM OPENING |    | LENS MOUNT THREAD DIAMETER |                | FLANGE DIAMETER |                 | PRICE   | TAX   |
|------|---------------------------|----|----------------------------|----------------|-----------------|-----------------|---------|-------|
|      | INCH                      | mm | FRONT INCHES               | REAR INCHES    | INSIDE, INCHES  | OUTSIDE, INCHES |         |       |
| 000  | $\frac{5}{32}$            | 4  | $\frac{3}{8}$              | $\frac{3}{8}$  | $\frac{5}{8}$   | $1\frac{5}{8}$  | \$13.00 | ..... |
| 00   | $\frac{1}{8}$             | 7  | $\frac{1}{2}$              | $\frac{1}{2}$  | 1               | $1\frac{1}{2}$  | 13.00   | ..... |
| 0    | $\frac{3}{16}$            | 12 | $\frac{3}{4}$              | $\frac{3}{4}$  | $1\frac{1}{8}$  | $1\frac{3}{4}$  | 13.00   | ..... |
| 1    | $\frac{1}{4}$             | 20 | $1\frac{1}{8}$             | $1\frac{1}{8}$ | $1\frac{1}{4}$  | $1\frac{1}{2}$  | 13.00   | ..... |
| 2    | $\frac{5}{16}$            | 22 | $1\frac{1}{4}$             | $1\frac{1}{4}$ | $1\frac{3}{8}$  | $1\frac{3}{4}$  | 13.00   | ..... |
| 3    | $\frac{3}{8}$             | 27 | $1\frac{3}{8}$             | $1\frac{3}{8}$ | $1\frac{1}{2}$  | $2\frac{1}{4}$  | 13.00   | ..... |
| 4    | $1\frac{1}{8}$            | 33 | $1\frac{1}{2}$             | $1\frac{1}{2}$ | 2               | $2\frac{1}{2}$  | 16.00   | ..... |
| 5    | $1\frac{1}{4}$            | 39 | $2\frac{1}{4}$             | $2\frac{1}{4}$ | $2\frac{1}{4}$  | $2\frac{3}{4}$  | 16.00   | ..... |
| 6    | $1\frac{3}{8}$            | 45 | $2\frac{3}{8}$             | $2\frac{3}{8}$ | $2\frac{5}{8}$  | $3\frac{3}{4}$  | 19.75   | ..... |
| 7    | $1\frac{7}{8}$            | 56 | $2\frac{7}{8}$             | $2\frac{7}{8}$ | $3\frac{1}{8}$  | $4\frac{1}{4}$  | 22.25   | ..... |
| 8    | $2\frac{1}{8}$            | 67 | $3\frac{1}{8}$             | $3\frac{1}{8}$ | $3\frac{3}{4}$  | $4\frac{3}{4}$  | 52.50   | ..... |
| 9    | $2\frac{3}{4}$            | 80 | $3\frac{3}{4}$             | $3\frac{3}{4}$ | $4\frac{1}{8}$  | $5\frac{1}{4}$  | 55.00   | ..... |
| 10   | $3\frac{1}{8}$            | 98 | $4\frac{1}{4}$             | $4\frac{1}{4}$ | $4\frac{3}{4}$  | $6\frac{1}{4}$  | 57.50   | ..... |

## SUNRAY 117 PROJECTION LENSES FOR 8mm (Wocoted)

| FOCUS INCH     | mm | SPEED f | MOUNT DIAMETER INCHES           | PRICE   | TAX   |
|----------------|----|---------|---------------------------------|---------|-------|
| $\frac{3}{4}$  | 19 | 1.8     | $\frac{7}{8}$ or $1\frac{1}{8}$ | \$12.50 | ..... |
| 1              | 25 | 1.6     | $\frac{7}{8}$ or $1\frac{1}{8}$ | 12.50   | ..... |
| $1\frac{1}{2}$ | 38 | 2.      | $\frac{7}{8}$ or $1\frac{1}{8}$ | 12.50   | ..... |

PLEASE SPECIFY PROJECTOR FOR WHICH LENS IS INTENDED.

## SUNRAY 107 PROJECTION LENSES FOR 16mm (Wocoted)

| FOCUS INCH     | mm   | SPEED f | MOUNT DIAMETER INCHES | PRICE   | TAX   |
|----------------|------|---------|-----------------------|---------|-------|
| $\frac{1}{2}$  | 12.7 | 2.4     | $1\frac{1}{16}$       | \$17.50 | ..... |
| $\frac{5}{8}$  | 16   | 2.4     | $1\frac{1}{16}$       | 17.50   | ..... |
| $\frac{3}{4}$  | 19   | 3.      | $1\frac{1}{16}$       | 17.50   | ..... |
| 1              | 25   | 2.46    | $1\frac{1}{16}$       | 15.00   | ..... |
| $1\frac{1}{4}$ | 38   | 1.8     | $1\frac{1}{16}$       | 15.00   | ..... |
| 2              | 50   | 1.6     | $1\frac{1}{16}$       | 15.00   | ..... |
| $2\frac{1}{2}$ | 63   | 1.6     | $1\frac{1}{16}$       | 17.50   | ..... |
| 3              | 75   | 2.      | $1\frac{1}{16}$       | 17.50   | ..... |
| $3\frac{1}{2}$ | 90   | 2.3     | $1\frac{1}{16}$       | 18.50   | ..... |
| 4              | 101  | 2.5     | $1\frac{1}{16}$       | 22.50   | ..... |

Supplied in  $1\frac{1}{4}$ " diameter spiralled tube, unless otherwise specified.  
Available also in spiralled tube, 1" or  $1\frac{1}{8}$ " outside diameter.  
PLEASE SPECIFY PROJECTOR FOR WHICH LENS IS INTENDED.