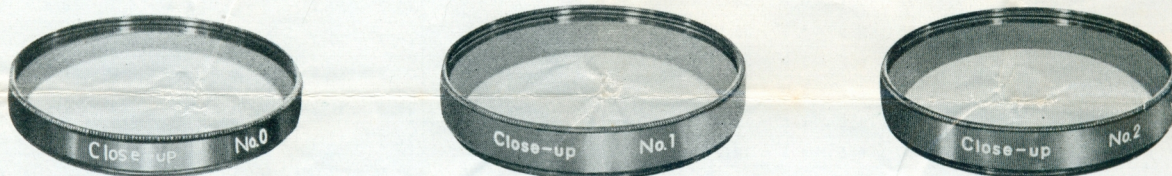


# CLOSE-UP ATTACHMENT LENSES

FOR NIKON F, NIKON F PHOTOMIC-T, OR NIKKORMAT FS, FT



The use of the lenses attached onto the front of the master lens — Nikkor, accepting 52mm screw-in accessories — of the Nikon F, Nikon F Photomic-T, Nikkormat FS, FT or Nikon Super Zoom-8 permits you to focus at closer distances and take pictures at larger reproduction ratios than the master lens by itself.

The use of the Close-up Attachment Lenses does not interfere with the automatic feature of aperture diaphragm of the master lens. What is more, their uses call for practically no exposure increase.

The Close-up Attachment Lenses are available in three types: No. 0, No. 1 and No. 2.

No. 1 and No. 2 are primarily designed for the use on normal lenses, while No. 0 on Zoom Nikkor Auto 43mm — 86mm f/3.5.

Of course, these attachment lenses can be used with other lenses as shown in the tables on the back page.

- [Note]
- For those who have No. 1, No. 0 is not needed for Nikkor Auto 50mm or 55mm.
  - No. 1 and No. 2 are not recommended to be used with 200mm f/4 because of resulting in an insufficient definition.
  - The simultaneous use of both No. 1 and No. 2 on the Zoom lens will cause vignetting at the corners of picture field.

No. 0 brings about the smallest and No. 2 the largest reproduction ratios. To get still larger ratios at closer focusing distances, add No. 1 to No. 2 merely by screwing one onto the other. But, the use of more than two Attachment Lenses is to be avoided because of various defects such as vignetting, insufficient definition, etc. For approximate focusing distances, reproduction ratios and subject areas obtained by the use of the Close-up Attachment Lenses on each master lens, see the tables on the back page.

Note that, when using the Close-up Attachment Lenses, the depth-of-field decreases to a great extent. For this reason, it is advisable to stop down the aperture of the master lens to f/8 or smaller. When focusing, do not use the split-image coincidence at the center of the view finder screen, but the surrounding mat portion because of focusing error liable to arise by the split-image. The use of the other types of finder screens without the split-image is recommended.

Filters or hoods for each master lens are screwed onto the front of the Attachment Lenses.

For subjects so close to the camera that the use of the Close-up Attachment Lenses does not suffice, make use of Extension Ring E<sub>2</sub> or Extension Ring Set K.

For greater reproduction ratios, Nikon Bellows Focusing Attachment is available.

**Nikon** **NIPPON KOGAKU K.K.**  
TOKYO, JAPAN



# IN INCH SYSTEM

No. 0

| Master Lens              | Focused Distance in | Reproduction Ratio 1/ | Subject Area in×in            |
|--------------------------|---------------------|-----------------------|-------------------------------|
| 50mm f/1.4               | 17.9"—58.0"         | 7.1—27                | 10.1"×6.7"—38.3"×25.5"        |
| 50mm f/2                 | 18.5"—59.2"         | 7.1—27                | 10.1"×6.7"—38.3"×25.5"        |
| 55mm f/1.2               | 18.7"—59.7"         | 6.7—25                | 9.5"×6.3"—36.0"×24.0"         |
| 85mm f/1.8               | 26.4"—60.6"         | 6.1—1.7               | 8.7"×5.9"—23.6"×15.7"         |
| 105mm f/2.5              | 29.2"—60.3"         | 5.3—13                | 7.5"×5.0"—18.4"×12.3"         |
| 135mm f/2.8              | 33.6"—61.5"         | 4.6—10                | 6.6"×4.5"—14.8"×9.9"          |
| 135mm f/3.5              | 33.2"—61.0"         | 4.6—10                | 6.5"×4.3"—14.2"×9.5"          |
| 200mm f/4                | 45.8"—63.8"         | 4.1—7.0               | 5.8"×3.9"—9.9"×6.6"           |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 29.5"—59"             | 13—32 18.4"×12.3"—45.3"×30.2" |
|                          | 50mm                | 29.5"—59"             | 11—28 15.6"×10.4"—39.7"×26.5" |
|                          | 60mm                | 29.5"—59"             | 9.3—23 13.2"×8.8"—32.6"×21.7" |
|                          | 70mm                | 29.5"—59"             | 7.9—20 11.2"×7.7"—28.3"×18.9" |
|                          | 86mm                | 29.5"—59"             | 6.5—16 9.2"×6.1"—22.7"×15.1"  |

No. 1

| Master Lens              | Focused Distance in | Reproduction Ratio 1/ | Subject Area in×in            |
|--------------------------|---------------------|-----------------------|-------------------------------|
| 50mm f/1.4               | 15.5"—30.6"         | 5.7—13                | 8.1"×5.4"—18.4"×12.3"         |
| 50mm f/2                 | 15.3"—30.2"         | 5.5—13                | 7.8"×5.2"—18.4"×12.3"         |
| 55mm f/1.2               | 15.7"—30.7"         | 5.2—12                | 7.4"×5.0"—17.1"×11.4"         |
| 85mm f/1.8               | 20.5"—31.5"         | 4.3—7.9               | 5.9"×3.9"—11.0"×7.5"          |
| 105mm f/2.5              | 21.5"—31.2"         | 3.6—6.4               | 5.1"×3.4"—9.1"×6.0"           |
| 135mm f/2.8              | 24.3"—32.5"         | 3.0—5.0               | 4.3"×2.9"—7.0"×4.7"           |
| 135mm f/3.5              | 23.9"—32.0"         | 3.0—5.0               | 4.3"×2.8"—7.1"×4.7"           |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 22.5"—31.5"           | 8.7—15 12.3"×8.2"—21.3"×14.2" |
|                          | 50mm                | 22.5"—31.5"           | 7.5—13 10.6"×7.1"—18.4"×12.3" |
|                          | 60mm                | 22.5"—31.5"           | 6.2—11 8.8"×5.9"—15.6"×10.4"  |
|                          | 70mm                | 22.5"—31.5"           | 5.3—9.2 7.5"×5.0"—13.0"×8.7"  |
|                          | 86mm                | 22.5"—31.5"           | 4.4—7.7 6.2"×4.2"—10.9"×7.3"  |

No. 2

| Master Lens              | Focused Distance in | Reproduction Ratio 1/ | Subject Area in×in           |
|--------------------------|---------------------|-----------------------|------------------------------|
| 50mm f/1.4               | 12.2"—17.4"         | 4.0—6.5               | 5.7"×3.8"—9.2"×6.1"          |
| 50mm f/2                 | 11.9"—17.0"         | 3.8—6.5               | 5.4"×3.6"—9.2"×6.1"          |
| 55mm f/1.2               | 12.3"—17.5"         | 3.7—6.1               | 5.2"×3.5"—8.6"×5.8"          |
| 85mm f/1.8               | 15.0"—18.5"         | 2.8—4.0               | 3.9"×2.8"—5.5"×3.9"          |
| 105mm f/2.5              | 15.3"—18.1"         | 2.2—3.2               | 3.1"×2.1"—4.5"×3.0"          |
| 135mm f/2.8              | 17.2"—19.3"         | 1.8—2.5               | 2.6"×1.7"—3.5"×2.4"          |
| 135mm f/3.5              | 16.8"—18.8"         | 1.8—2.5               | 2.6"×1.7"—3.5"×2.4"          |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 16.2"—18.9"           | 5.5—7.8 7.8"×5.2"—11.1"×7.4" |
|                          | 50mm                | 16.2"—18.9"           | 4.9—6.8 6.9"×4.6"—9.6"×6.4"  |
|                          | 60mm                | 16.2"—18.9"           | 4.0—5.6 5.7"×3.8"—7.9"×5.3"  |
|                          | 70mm                | 16.2"—18.9"           | 3.3—4.7 4.7"×3.1"—6.7"×4.4"  |
|                          | 86mm                | 16.2"—18.9"           | 2.7—4.0 3.8"×2.6"—5.7"×3.8"  |

No. 1 + No. 2

| Master Lens | Focused Distance in | Reproduction Ratio 1/ | Subject Area in×in  |
|-------------|---------------------|-----------------------|---------------------|
| 50mm f/1.4  | 10.6"—13.2"         | 3.1—4.4               | 4.4"×2.9"—6.2"×4.2" |
| 50mm f/2    | 10.2"—12.8"         | 3.0—4.4               | 4.3"×2.8"—6.2"×4.2" |
| 55mm f/1.2  | 10.7"—13.3"         | 2.9—4.1               | 4.1"×2.7"—5.8"×3.9" |

# IN METRIC SYSTEM

No. 0

| Master Lens              | Focused Distance cm | Reproduction Ratio 1/ | Subject Area cm×cm |
|--------------------------|---------------------|-----------------------|--------------------|
| 50mm f/1.4               | 46—147              | 7.1—27                | 26×17—97×65        |
| 50mm f/2                 | 47—150              | 7.1—27                | 26×17—97×65        |
| 55mm f/1.2               | 48—151              | 6.7—25                | 24×16—91×61        |
| 85mm f/1.8               | 67—154              | 6.1—17                | 22×15—60×40        |
| 105mm f/2.5              | 74—153              | 5.3—13                | 19×13—47×31        |
| 135mm f/2.8              | 85—156              | 4.6—10                | 17×11—38×25        |
| 135mm f/3.5              | 85—155              | 4.6—10                | 17×11—36×24        |
| 200mm f/4                | 116—162             | 4.1—7.0               | 15×10—25×17        |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 75—150                | 13—32 46×31—115×77 |
|                          | 50mm                | 75—150                | 11—28 40×27—101×67 |
|                          | 60mm                | 75—150                | 9.3—23 34×22—83×55 |
|                          | 70mm                | 75—150                | 7.9—20 28×19—71×47 |
|                          | 86mm                | 75—150                | 6.5—16 23×16—58×39 |

No. 1

| Master Lens              | Focused Distance cm | Reproduction Ratio 1/ | Subject Area cm×cm  |
|--------------------------|---------------------|-----------------------|---------------------|
| 50mm f/1.4               | 40—78               | 5.7—13                | 20×14—47×31         |
| 50mm f/2                 | 40—78               | 5.5—13                | 20×14—47×31         |
| 55mm f/1.2               | 40—78               | 5.2—12                | 19×13—44×29         |
| 85mm f/1.8               | 52—80               | 4.3—7.9               | 15×10—28×19         |
| 105mm f/2.5              | 55—79               | 3.6—6.4               | 13×8.6—23×15        |
| 135mm f/2.8              | 62—82               | 3.0—5.0               | 11×7.3—18×12        |
| 135mm f/3.5              | 61—81               | 3.0—5.0               | 11×7.2—18×12        |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 57—80                 | 8.7—15 31×21—54×36  |
|                          | 50mm                | 57—80                 | 7.5—13 27×18—47×31  |
|                          | 60mm                | 57—80                 | 6.2—11 22×15—40×26  |
|                          | 70mm                | 57—80                 | 5.3—9.2 19×13—33×22 |
|                          | 86mm                | 57—80                 | 4.4—7.7 16×11—28×19 |

No. 2

| Master Lens              | Focused Distance cm | Reproduction Ratio 1/ | Subject Area cm×cm  |
|--------------------------|---------------------|-----------------------|---------------------|
| 50mm f/1.4               | 31—44               | 4.0—6.5               | 14×9—23×16          |
| 50mm f/2                 | 30—43               | 3.8—6.5               | 14×9—23×16          |
| 55mm f/1.2               | 31—44               | 3.7—6.1               | 13×8.8—22×15        |
| 85mm f/1.8               | 38—47               | 2.8—4.0               | 10×7—14×10          |
| 105mm f/2.5              | 39—46               | 2.2—3.2               | 7.9×5.3—12×8        |
| 135mm f/2.8              | 44—49               | 1.8—2.5               | 6.6×4.4—9×6         |
| 135mm f/3.5              | 43—48               | 1.8—2.5               | 6.5×4.3—9×6         |
| Zoom<br>43—86mm<br>f/3.5 | f=43mm              | 41—48                 | 5.5—7.8 20×13—28×19 |
|                          | 50mm                | 41—48                 | 4.9—6.8 18×12—25×16 |
|                          | 60mm                | 41—48                 | 4.0—5.6 14×10—20×13 |
|                          | 70mm                | 41—48                 | 3.3—4.7 12×8—17×11  |
|                          | 86mm                | 41—48                 | 2.7—4.0 10×7—14×10  |

No. 1 + No. 2

| Master Lens | Focused Distance cm | Reproduction Ratio 1/ | Subject Area cm×cm |
|-------------|---------------------|-----------------------|--------------------|
| 50mm f/1.4  | 27—34               | 3.1—4.4               | 11×7.5—16×11       |
| 50mm f/2    | 26—33               | 3.0—4.4               | 11×7.5—16×11       |
| 55mm f/1.2  | 27—34               | 2.9—4.1               | 10×6.9—15×9.8      |