The SW-series lenses feature wide covering power and a wide image circle. Maximum apertures of f/4 and f/4.5 assure fast and pin-point focusing and bright images, corner to corner. Covering power can be extended to 105° ~ 106° by stopping the lens down. SW series lenses deliver high contrast and resolution, reduced flare and excellent color rendition, thanks to Nikon Super Integrated Coating and strict control of aberrations.

SW-series lenses with a maximum aperture of f/8 are compact and well compensated for distortion.

**Nikkor-SW 65mm f/4s**
- Focal length: 65mm
- Maximum aperture ratio: 1:4
- Minimum aperture: f/45
- Lens construction: 7 elements in 4 groups
- Covering power (f/4): 80°
- Image circle (f/4): ø110mm
- Shutter: No. 0 (Copal® *)
- Shutter speed: 1 ~ 1/500 s, T, B
- Front mount size: ø70mm
- Attachment size: ø67mm x 0.75mm (P)
- Flange attachment size: ø32.5mm x 0.5mm (P)
- Flange focal distance: 70.8mm
- Overall length: 67mm
- Weight: 370g

**Nikkor-SW 75mm f/4.5s**
- Focal length: 75mm
- Maximum aperture ratio: 1:4.5
- Minimum aperture: f/45
- Lens construction: 7 elements in 4 groups
- Covering power (f/4.5): 80°
- Image circle (f/4.5): ø126mm
- Shutter: No. 0 (Copal® *)
- Shutter speed: 1 ~ 1/500 s, T, B
- Front mount size: ø70mm
- Attachment size: ø67mm x 0.75mm (P)
- Flange attachment size: ø32.5mm x 0.5mm (P)
- Flange focal distance: 81.3mm
- Overall length: 73.5mm
- Weight: 420g

* Designed exclusively for Nikon. "Copal®" is the registered trademark of NIDEC COPAL CORPORATION, Tokyo, Japan.
Nikkor-SW 90mm f/4.5s
Focal length 90mm
Maximum aperture ratio 1:4.5
Minimum aperture f/64
Lens construction 7 elements in 4 groups
Covering power (f/4.5) 80°
Covering power (f/16) 105°
Image circle (f/4.5) ø154mm
Image circle (f/16) ø235mm (5’’ x 7’’)
Shutter No. 0 (Copal®)
Shutter speed 1 ~ 1/500 s, T, B
Sync socket X-contact
Front mount size ø85mm
Attachment size ø82mm x 0.75mm (P)
Rear mount size ø70mm
Flange attachment size ø32.5mm x 0.5mm (P)
Flange focal distance ø97.4mm
Overall length 86.7mm
Weight 600g

Nikkor-SW 90mm f/8s
Focal length 90mm
Maximum aperture ratio 1:8
Minimum aperture f/64
Lens construction 8 elements in 4 groups
Covering power (f/8) 80°
Covering power (f/16) 105°
Image circle (f/8) ø154mm
Image circle (f/16) ø235mm (5’’ x 7’’)
Shutter No. 0 (Copal®)
Shutter speed 1 ~ 1/500 s, T, B
Sync socket X-contact
Front mount size ø70mm
Attachment size ø67mm x 0.75mm (P)
Rear mount size ø60mm
Flange attachment size ø32.5mm x 0.5mm (P)
Flange focal distance ø97.0mm
Overall length 71mm
Weight 360g

Nikkor-SW 120mm f/8s
Focal length 120mm
Maximum aperture ratio 1:8
Minimum aperture f/64
Lens construction 8 elements in 4 groups
Covering power (f/8) 80°
Covering power (f/16) 105°
Image circle (f/8) ø200mm
Image circle (f/16) ø312mm (8’’ x 10’’)
Shutter No. 0 (Copal®)
Shutter speed 1 ~ 1/500 s, T, B
Sync socket X-contact
Front mount size ø80mm
Attachment size ø77mm x 0.75mm (P)
Rear mount size ø80mm
Flange attachment size ø32.5mm x 0.5mm (P)
Flange focal distance ø130.7mm
Overall length 92.5mm
Weight 610g

* Designed exclusively for Nikon. "Copal®" is the registered trademark of NIDEC COPAL CORPORATION, Tokyo, Japan.
Covering power of the W series Nikkors is ample 70° ~ 73° when stopped down. Lens construction of six elements in four groups in the series gives these lenses an outstanding degree of freedom from distortion, field curvature and chromatic aberration. And Nikon Super Integrated Coating applied to each lens assures high contrast and overall faithful color rendition. The W series lenses are recommended for a variety of subjects, including landscapes, portraits, architecture, and table-top photography.

<table>
<thead>
<tr>
<th>Nikkor-W 105mm f/5.6s</th>
<th>Nikkor-W 135mm f/5.6s</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Focal length</strong></td>
<td>105mm</td>
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<tr>
<td></td>
<td>135mm</td>
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<tr>
<td><strong>Maximum aperture ratio</strong></td>
<td>1:5.6</td>
</tr>
<tr>
<td><strong>Minimum aperture</strong></td>
<td>f/45</td>
</tr>
<tr>
<td></td>
<td>f/64</td>
</tr>
<tr>
<td><strong>Lens construction</strong></td>
<td>6 elements in 4 groups</td>
</tr>
<tr>
<td><strong>Covering power (f/5.6)</strong></td>
<td>60°</td>
</tr>
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<tr>
<td><strong>Covering power (f/22)</strong></td>
<td>73°</td>
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<td>73°</td>
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<tr>
<td><strong>Image circle (f/5.6)</strong></td>
<td>ø121mm</td>
</tr>
<tr>
<td></td>
<td>ø156mm</td>
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<tr>
<td><strong>Image circle (f/22)</strong></td>
<td>ø155mm (4&quot; x 5&quot;)</td>
</tr>
<tr>
<td></td>
<td>ø200mm (120mm x 165mm)</td>
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<tr>
<td><strong>Shutter</strong></td>
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</tr>
<tr>
<td></td>
<td>No. 0 (Copal®*)</td>
</tr>
<tr>
<td><strong>Shutter speed</strong></td>
<td>1 ~ 1/500 s, T, B</td>
</tr>
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<td></td>
<td>1 ~ 1/500 s, T, B</td>
</tr>
<tr>
<td><strong>Sync socket</strong></td>
<td>X-contact</td>
</tr>
<tr>
<td></td>
<td>X-contact</td>
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<td><strong>Front mount size</strong></td>
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<tr>
<td><strong>Attachment size</strong></td>
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<td>ø52mm x 0.75mm (P)</td>
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<td><strong>Rear mount size</strong></td>
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<td></td>
<td>ø42mm</td>
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<tr>
<td><strong>Flange attachment size</strong></td>
<td>ø32.5mm x 0.5mm (P)</td>
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<td></td>
<td>ø32.5mm x 0.5mm (P)</td>
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<tr>
<td><strong>Flange focal distance</strong></td>
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<td><strong>Overall length</strong></td>
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<td></td>
<td>46mm</td>
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<td><strong>Weight</strong></td>
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<tr>
<td></td>
<td>200g</td>
</tr>
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</table>
**Nikkor-W 150mm f/5.6s**

- **Focal length**: 150mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/5.6)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/5.6)**: ø174mm
- **Image circle (f/22)**: ø210mm (5" x 7")
- **Shutter**: No. 0 (Copal®)
- **Shutter speed**: 1 ~ 1/500 s, T, B
- **Sync socket**: X-contact
- **Attachment size**: ø52mm x 0.75mm (P)
- **Rear mount size**: ø42mm
- **Flange attachment size**: ø32.5mm x 0.5mm (P)
- **Flange focal distance**: 146.8mm
- **Overall length**: 50mm
- **Weight**: 230g

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**Nikkor-W 180mm f/5.6**

- **Focal length**: 180mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/5.6)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/5.6)**: ø208mm
- **Image circle (f/22)**: ø253mm (5" x 7")
- **Shutter**: No. 1 (Copal®)
- **Shutter speed**: 1 ~ 1/400 s, T, B
- **Sync socket**: X-contact
- **Attachment size**: ø67mm x 0.75mm (P)
- **Rear mount size**: ø54mm
- **Flange attachment size**: ø39mm x 0.75mm (P)
- **Flange focal distance**: 177mm
- **Overall length**: 60.5mm
- **Weight**: 380g

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**Nikkor-W 210mm f/5.6**

- **Focal length**: 210mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/5.6)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/5.6)**: ø243mm
- **Image circle (f/22)**: ø295mm (6 1/2" x 8 1/2")
- **Shutter**: No. 1 (Copal®)
- **Shutter speed**: 1 ~ 1/400 s, T, B
- **Sync socket**: X-contact
- **Attachment size**: ø67mm x 0.75mm (P)
- **Rear mount size**: ø60mm
- **Flange attachment size**: ø39mm x 0.75mm (P)
- **Flange focal distance**: 207mm
- **Overall length**: 69mm
- **Weight**: 460g

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### Nikon-W 240mm f/5.6
- **Focal length**: 240mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/5.6)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/5.6)**: ø278mm
- **Image circle (f/22)**: ø336mm (8” x 10”)
- **Shutter**: No. 3 (CopaFilm®)
- **Shutter speed**: 1 ~ 1/125 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø85mm
- **Attachment size**: ø82mm x 0.75mm (P)
- **Flange attachment size**: ø62mm x 0.75mm (P)
- **Flange focal distance**: 225.6mm
- **Overall length**: 77mm
- **Weight**: 820g

### Nikon-W 300mm f/5.6
- **Focal length**: 300mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/5.6)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/5.6)**: ø346mm
- **Image circle (f/22)**: ø420mm (10” x 12”)
- **Shutter**: No. 3 (CopaFilm®)
- **Shutter speed**: 1 ~ 1/125 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø100mm
- **Attachment size**: ø95mm x 1mm (P)
- **Flange attachment size**: ø62mm x 0.75mm (P)
- **Flange focal distance**: 284.9mm
- **Overall length**: 94.5mm
- **Weight**: 1,250g

### Nikon-W 360mm f/6.5
- **Focal length**: 360mm
- **Maximum aperture ratio**: 1:6.5
- **Minimum aperture**: f/64
- **Lens construction**: 6 elements in 4 groups
- **Covering power (f/6.5)**: 60°
- **Covering power (f/22)**: 70°
- **Image circle (f/6.5)**: ø415mm
- **Image circle (f/22)**: ø494mm (11” x 14”)
- **Shutter**: No. 3 (CopaFilm®)
- **Shutter speed**: 1 ~ 1/125 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø100mm
- **Attachment size**: ø95mm x 1mm (P)
- **Flange attachment size**: ø62mm x 0.75mm (P)
- **Flange focal distance**: 345.8mm
- **Overall length**: 107.5mm
- **Weight**: 1,420g
The Nikkor-AM (Apo Macro) lenses are exclusively designed for macro photography and provide outstanding performance at 1:1 reproduction. ED (Extra-low Dispersion) glass reduces chromatic aberration at all settings, and completely symmetrical lens construction ensures that the lens is 100% free of distortion and lateral chromatic aberration at 1:1 magnification. Combined with Nikon Super Integrated Coating, the result is outstandingly sharp images, free from flare and ghosts.

### Nikkor-AM ED 120mm f/5.6
- **Focal length**: 120mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/45
- **Lens construction**: 8 elements in 4 groups
- **Covering power (f/5.6)**: 47°
- **Covering power (f/22)**: 55°
- **Image circle (f/5.6)**: ø210mm
- **Image circle (f/22)**: ø250mm (5" x 7")
- **Shutter**: No. 0 (Copal® *)
- **Shutter speed**: 1 - 1/500 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø54mm
- **Attachment size**: ø52mm x 0.75mm (P)
- **Rear mount size**: ø42mm
- **Flange attachment size**: ø32.5mm x 0.5mm (P)
- **Flange focal distance**: 115.9mm
- **Overall length**: 64mm
- **Weight**: 295g

### Nikkor-AM ED 210mm f/5.6
- **Focal length**: 210mm
- **Maximum aperture ratio**: 1:5.6
- **Minimum aperture**: f/64
- **Lens construction**: 8 elements in 4 groups
- **Covering power (f/5.6)**: 41°
- **Covering power (f/22)**: 51°
- **Image circle (f/5.6)**: ø310mm (M=1:1)
- **Image circle (f/22)**: ø400mm (10" x 12"; M=1:1)
- **Shutter**: No. 1 (Copal® *)
- **Shutter speed**: 1 - 1/400 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø70mm
- **Attachment size**: ø67mm x 0.75mm (P)
- **Rear mount size**: ø70mm
- **Flange attachment size**: ø39mm x 0.75mm (P)
- **Flange focal distance**: 202.7mm
- **Overall length**: 104.5mm
- **Weight**: 850g

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The Nikkor lenses in the T series are telephoto-type lenses which do not require long-length camera bellows. To maximize correction of chromatic aberration inherent in long focal length lenses, Nikon's performance-proven ED (Extra-low Dispersion) glass was used for the first time for lenses for large-format cameras. Image distortion and curvature are also extremely minimized. Combined with Nikon Super Integrated Coating, the result is outstandingly sharp images, free from flare and ghosts.

<table>
<thead>
<tr>
<th></th>
<th>Nikkor-T ED 270mm f/6.3</th>
<th>Nikkor-T ED 360mm f/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal length</td>
<td>270mm</td>
<td>360mm</td>
</tr>
<tr>
<td>Maximum aperture ratio</td>
<td>1:6.3</td>
<td>1:8</td>
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<tr>
<td>Minimum aperture</td>
<td>f/64</td>
<td>f/64</td>
</tr>
<tr>
<td>Lens construction</td>
<td>5 elements in 4 groups</td>
<td>5 elements in 4 groups</td>
</tr>
<tr>
<td>Covering power (f/6.3)</td>
<td>24°</td>
<td>24°</td>
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<tr>
<td>Covering power (f/22)</td>
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</tr>
<tr>
<td>Image circle (f/6.3)</td>
<td>ø114mm</td>
<td>ø154mm</td>
</tr>
<tr>
<td>Image circle (f/22)</td>
<td>ø160mm (4&quot; x 5&quot;)</td>
<td>ø210mm (5&quot; x 7&quot;)</td>
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<tr>
<td>Shutter</td>
<td>No. 1 (Copal® *)</td>
<td>No. 1 (Copal® *)</td>
</tr>
<tr>
<td>Shutter speed</td>
<td>1 ~ 1/400 s, T, B</td>
<td>1 ~ 1/400 s, T, B</td>
</tr>
<tr>
<td>Sync socket</td>
<td>X-contact</td>
<td>X-contact</td>
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<tr>
<td>Front mount size</td>
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<tr>
<td>Attachment size</td>
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<td>ø67mm x 0.75mm (P)</td>
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<tr>
<td>Rear mount size</td>
<td>ø54mm</td>
<td>ø60mm</td>
</tr>
<tr>
<td>Flange attachment size</td>
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<td>Flange focal distance</td>
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<td>Overall length</td>
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<td>124mm</td>
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<tr>
<td>Weight</td>
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<td>800g</td>
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</table>

: ED glass elements
**ED500mm f/11** | **ED600mm f/9** | **ED720mm f/16**
---|---|---
Focal length | 500mm | 600mm | 720mm
Maximum aperture ratio | 1:11 | 1:9 | 1:16
Minimum aperture | 1/64 | 1/64 | 1/64
Lens construction | 6 elements in 4 groups | 6 elements in 5 groups | 7 elements in 4 groups
Covering power (f/11) | 17° | 19° | 12°
Covering power (f/22) | 24° | 29° | 17°
Image circle (f/11) | ø154mm | ø200mm | ø154mm
Image circle (f/22) | ø210mm (5" x 7") | ø310mm (8" x 10") | ø210mm (5" x 7")
Shutter | No. 1 (Copal® *) | No. 3 (Copal® *) | No. 1 (Copal® *)
Shutter speed | 1 ~ 1/400 s, T, B | 1 ~ 1/125 s, T, B | 1 ~ 1/400 s, T, B
Sync socket | X-contact | X-contact | X-contact
Front mount size | ø70mm | ø100mm | ø70mm
Attachment size | ø67mm x 0.75mm (P) | ø95mm x 1 mm (P) | ø67mm x 0.75mm (P)
Rear mount size | ø54mm | ø80mm | ø54mm
Flange attachment size | ø39mm x 0.75mm (P) | ø62mm x 0.75mm (P) | ø39mm x 0.75mm (P)
Flange focal distance | 349.9mm | 409.2mm | 469.2mm
Overall length | 129.5mm | 175.5mm | 124.1mm
Weight | 760g | 1,650g | 780g

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**Nikkor-T ED 800mm f/12**

- **Focal length**: 800mm
- **Maximum aperture ratio**: 1:12
- **Minimum aperture**: f/64
- **Lens construction**: 7 elements in 5 groups
- **Covering power (f/12)**: 14°
- **Image circle (f/12)**: ø200mm
- **Image circle (f/22)**: ø310mm (8" x 10")
- **Shutter**: No. 3 (Copal® *)
- **Shutter speed**: 1 ~ 1/125 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø100mm
- **Attachment size**: ø95mm x 1mm (P)
- **Rear mount size**: ø70mm
- **Flange attachment size**: ø62mm x 0.75mm (P)
- **Flange focal distance**: 527.4mm
- **Overall length**: 176.5mm
- **Weight**: 1,600g

**Nikkor-T ED 1200mm f/18**

- **Focal length**: 1200mm
- **Maximum aperture ratio**: 1:18
- **Minimum aperture**: f/64
- **Lens construction**: 8 elements in 5 groups
- **Covering power (f/18)**: 10°
- **Image circle (f/18)**: ø200mm
- **Image circle (f/22)**: ø310mm (8" x 10")
- **Shutter**: No. 3 (Copal® *)
- **Shutter speed**: 1 ~ 1/125 s, T, B
- **Sync socket**: X-contact
- **Front mount size**: ø100mm
- **Attachment size**: ø95mm x 1mm (P)
- **Rear mount size**: ø60mm
- **Flange attachment size**: ø62mm x 0.75mm (P)
- **Flange focal distance**: 755.7mm
- **Overall length**: 179mm
- **Weight**: 1,480g

And because the rear lens component is interchangeable between the ED 360mm f/8, ED 500mm f/11 and ED 720mm f/16, and between the ED 600mm f/9, ED 800mm f/12 and ED 1200mm f/18, superb cost-performance and greater carrying ease are assured.
The M series lenses are characterized by standard covering power and faithful reproduction of subtle variations in color and shading. They are versatile enough to provide consistent performance from close distance to infinity. Chromatic aberration is virtually eliminated over the entire visible portion of the spectrum, and other aberrations are corrected. And Nikon Super Integrated Coating is applied to each lens to assure high resolution and contrast.

### Nikkor-M 200mm f/8s

- **Focal length**: 200mm
- **Maximum aperture ratio**: 1:8
- **Minimum aperture**: f/64
- **Lens construction**: 4 elements in 3 groups
- **Covering power (f/8)**: 45°
- **Image circle (f/8)**: ø166mm
- **Shutter**: No. 0 (Copal®)
- **Sync socket**: X-contact
- **Front mount size**: ø54mm
- **Attachment size**: ø52mm x 0.75mm (P)
- **Flange attachment size**: ø32.5mm x 0.5mm (P)
- **Overall length**: 43mm
- **Weight**: 180g

### Nikkor-M 300mm f/9

- **Focal length**: 300mm
- **Maximum aperture ratio**: 1:9
- **Minimum aperture**: f/128
- **Lens construction**: 4 elements in 3 groups
- **Covering power (f/9)**: 55°
- **Image circle (f/9)**: ø312mm
- **Shutter**: No. 1 (Copal®)
- **Sync socket**: X-contact
- **Front mount size**: ø54mm
- **Attachment size**: ø52mm x 0.75mm (P)
- **Flange attachment size**: ø39mm x 0.75mm (P)
- **Overall length**: 43mm
- **Weight**: 290g

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### Nikkor-M 450mm f/9

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<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tr>
<td>Maximum aperture ratio</td>
<td>1:9</td>
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<tr>
<td>Minimum aperture</td>
<td>f/128</td>
</tr>
<tr>
<td>Lens construction</td>
<td>4 elements in 3 groups</td>
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<tr>
<td>Covering power (f/9)</td>
<td>50°</td>
</tr>
<tr>
<td>Covering power (f/22)</td>
<td>52°</td>
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<tr>
<td>Image circle (f/9)</td>
<td>ø420mm</td>
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<tr>
<td>Image circle (f/22)</td>
<td>ø440mm (10&quot; x 12&quot;)</td>
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<tr>
<td>Shutter</td>
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<tr>
<td>Shutter speed</td>
<td>1 ~ 1/125 s, T, B</td>
</tr>
<tr>
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<td>X-contact</td>
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<tr>
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<tr>
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</table>
**Image Circle Chart**

To ascertain if any Nikkor lens fully covers any given film format and how much displacement (longitudinal or lateral in one direction) is possible, this chart compares image circle and film format. The arc represents the image circle projected by each Nikkor lens stopped down to the specified f/number. The rectangular boxes indicate film formats: designated format size is approximated by the outer frame, and the usable size for that format is represented by the inner frame. One-quarter portion of the complete projection is shown here in this life-size chart. To find the entire displacement amount, either read the scale on the chart or measure the distance with a ruler.

*Note: As usable image size may vary slightly depending on the film holder in use, this chart is intended as a rough guide only.*