



NIKKOR LENSES

for Large-Format Cameras

At the heart of the image





SW Series

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.

65mm f/4_s



75mm f/4.5_s

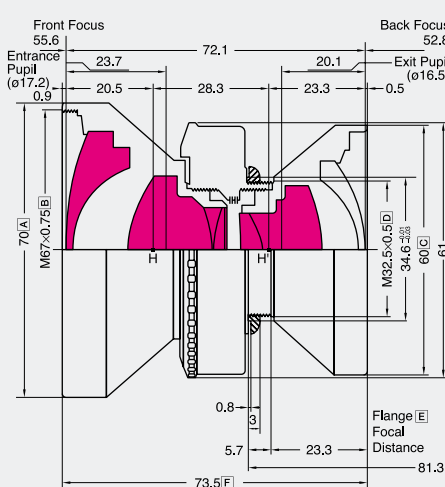
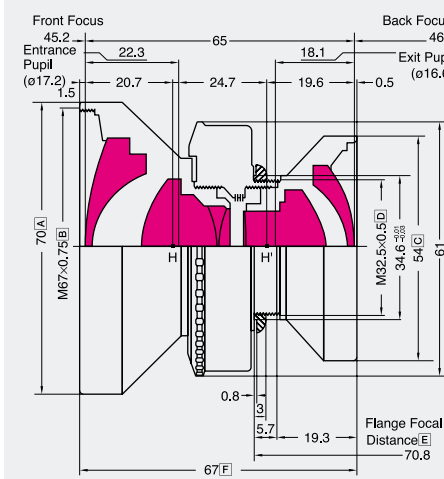


Nikkor-SW 65mm f/4_s

Focal length	65mm
Maximum aperture ratio	1:4
Minimum aperture	f/45
Lens construction	7 elements in 4 groups
Covering power (f/4)	80°
Covering power (f/16)	105°
Image circle (f/4)	ø110mm
Image circle (f/16)	ø170mm (4" x 5")
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø54mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance %	70.8mm
Overall length İ	67mm
Weight	370g

Nikkor-SW 75mm f/4.5_s

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°
Covering power (f/16)	106°
Image circle (f/4.5)	ø126mm
Image circle (f/16)	ø200mm (120mm x 165mm)
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø60mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance %	81.3mm
Overall length İ	73.5mm
Weight	420g



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A black Nikonor-SW 90mm lens with a red filter, mounted on a black base with a silver adjustment ring. The lens is shown from a top-down perspective, highlighting the red filter and the lens markings. The base has a silver adjustment ring with markings and a small red dot.

[illegible]

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W Series

Covering power of the W series Nikkors is an ample $70^{\circ} \sim 73^{\circ}$ 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.

105_{mm} f/5.6_s



135_{mm} f/5.6_s

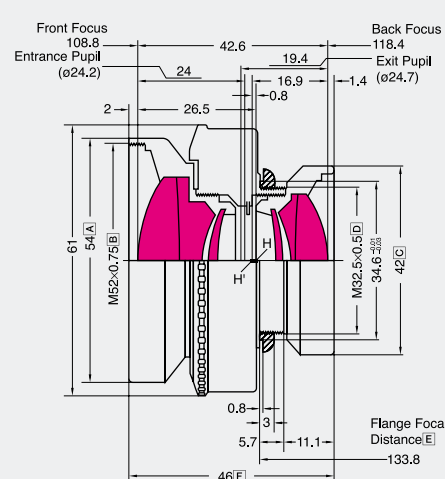
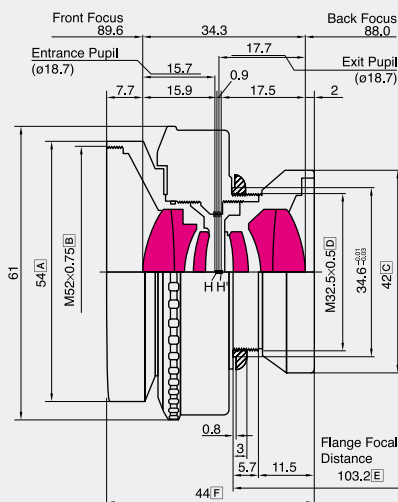


Nikkor-W 105_{mm} f/5.6_s

Focal length	105mm
Maximum aperture ratio	1:5.6
Minimum aperture	f/45
Lens construction	6 elements in 4 groups
Covering power (f/5.6)	60°
Covering power (f/22)	73°
Image circle (f/5.6)	ø121mm
Image circle (f/22)	ø155mm (4" x 5")
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø42mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance %	103.2mm
Overall length İ	44mm
Weight	185g

Nikkor-W 135_{mm} f/5.6_s

Focal length	135mm
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)	73°
Image circle (f/5.6)	ø156mm
Image circle (f/22)	ø200mm (120mm x 165mm)
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø42mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance %	133.8mm
Overall length İ	46mm
Weight	200g



150_{mm} f/5.6_s



180_{mm} f/5.6



210_{mm} f/5.6



Nikkor-W 150mm f/5.6s

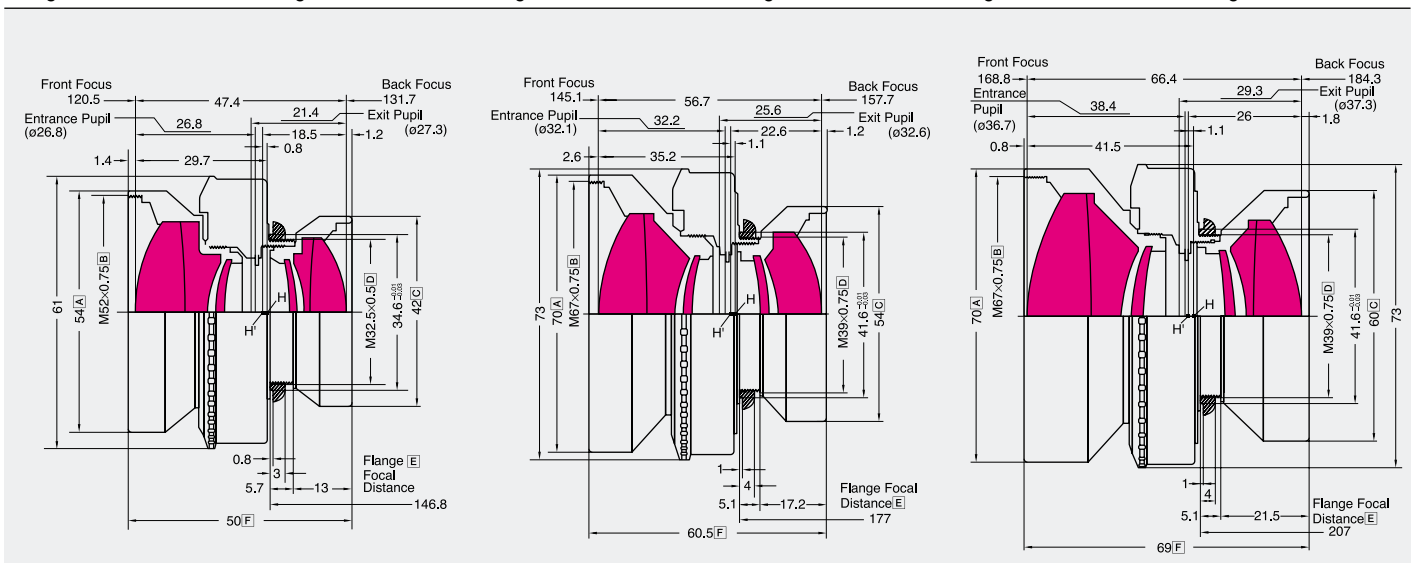
Focal length	150mm
Maximum aperture ratio	1:5.6
Minimum aperture	f/64
Lens construction	6 elements in 4 groups
Covering power (f/5.6)	60°
Covering power (f/22)	70°
Image circle (f/5.6)	ø174mm
Image circle (f/22)	ø210mm (5" x 7")
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø42mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance %	146.8mm
Overall length Ì	50mm
Weight	230g

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
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø54mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance %	177mm
Overall length Ì	60.5mm
Weight	380g

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
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø60mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance %	207mm
Overall length Ì	69mm
Weight	460g

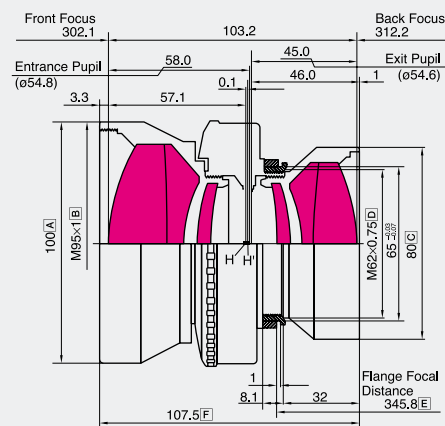
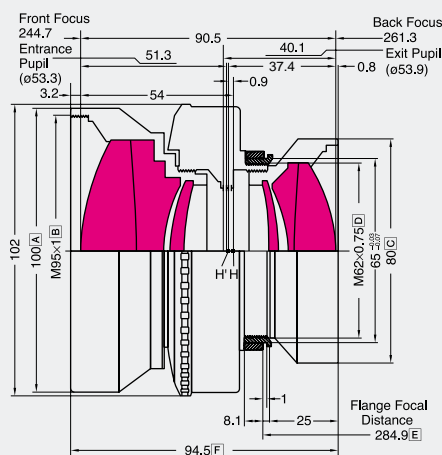
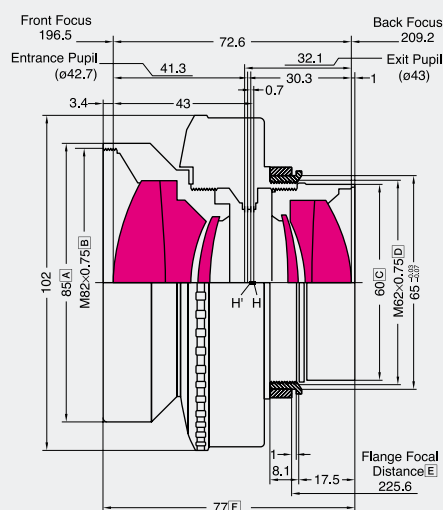


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Focal length	240mm
Maximum aperture ratio	1:5.6
Minimum aperture	f/64
Lens construction	6 elements in 4 groups
Covering power (f/5.6)	60°
Covering power (f/22)	70°
Image circle (f/5.6)	ø278mm
Image circle (f/22)	ø336mm (8" x 10")
Shutter	No. 3 (Copal® *)
Shutter speed	1 ~ 1/125 s, T, B
Sync socket	X-contact
Front mount size Å	ø85mm
Attachment size 1	ø82mm x 0.75mm (P)
Rear mount size Ç	ø60mm
Flange attachment size Î	ø62mm x 0.75mm (P)
Flange focal distance ¾	225.6mm
Overall length Ì	77mm
Weight	820g

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 (Copal® *)
Shutter speed	1 ~ 1/125 s, T, B
Sync socket	X-contact
Front mount size Å	ø100mm
Attachment size 1	ø95mm x 1mm (P)
Rear mount size Ç	ø80mm
Flange attachment size Î	ø62mm x 0.75mm (P)
Flange focal distance 8	284.9mm
Overall length Ï	94.5mm
Weight	1,250g

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)	69°
Image circle (f/6.5)	ø415mm
Image circle (f/22)	ø494mm (11" x 14")
Shutter	No. 3 (Copal® *)
Shutter speed	1 ~ 1/125 s, T, B
Sync socket	X-contact
Front mount size Å	ø100mm
Attachment size ı	ø95mm x 1mm (P)
Rear mount size Ç	ø80mm
Flange attachment size î	ø62mm x 0.75mm (P)
Flange focal distance ı	345.8mm
Overall length ï	107.5mm
Weight	1,420g



AM Series

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.

ED120_{mm} f/5.6s ED210_{mm} f/5.6

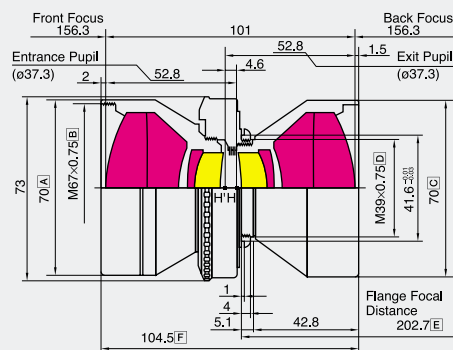
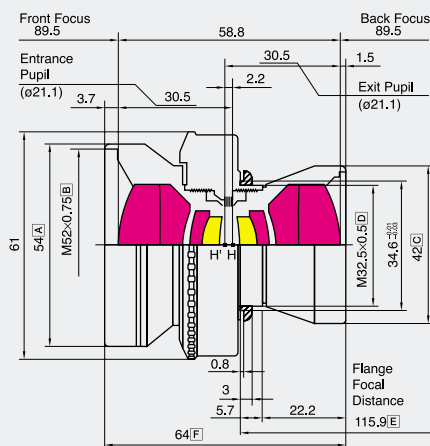


Nikkor-AM ED 120mm f/5.6s

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 Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø42mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance ¾	115.9mm
Overall length İ	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 Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø70mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance ¾	202.7mm
Overall length İ	104.5mm
Weight	850g



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T Series

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.

ED270_{mm} f/6.3 ED360_{mm} f/8

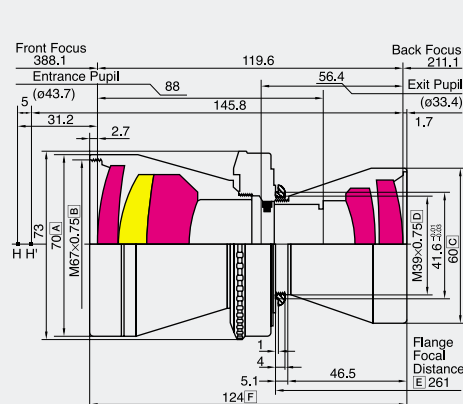
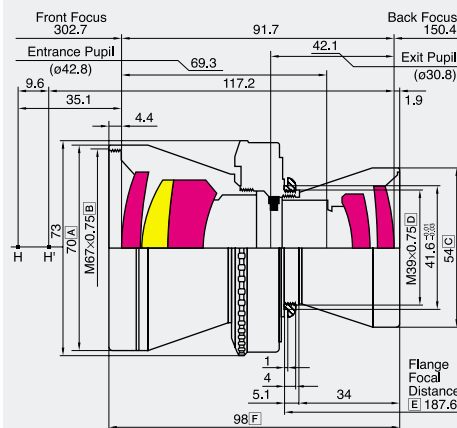


Nikkor-T ED 270_{mm} f/6.3

Focal length	270mm
Maximum aperture ratio	1:6.3
Minimum aperture	f/64
Lens construction	5 elements in 4 groups
Covering power (f/6.3)	24°
Covering power (f/22)	33°
Image circle (f/6.3)	ø114mm
Image circle (f/22)	ø160mm (4" x 5")
Shutter	No. 1 (Copal® *)
Shutter speed	1 ~ 1/400 s, T, B
Sync socket	X-contact
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø54mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance ¾	187.6mm
Overall length Ì	98mm
Weight	590g

Nikkor-T ED 360_{mm} f/8

Focal length	360mm
Maximum aperture ratio	1:8
Minimum aperture	f/64
Lens construction	5 elements in 4 groups
Covering power (f/8)	24°
Covering power (f/22)	33°
Image circle (f/8)	ø154mm
Image circle (f/22)	ø210mm (5" x 7")
Shutter	No. 1 (Copal® *)
Shutter speed	1 ~ 1/400 s, T, B
Sync socket	X-contact
Front mount size Å	ø70mm
Attachment size 1	ø67mm x 0.75mm (P)
Rear mount size Ç	ø60mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance ¾	261mm
Overall length Ì	124mm
Weight	800g

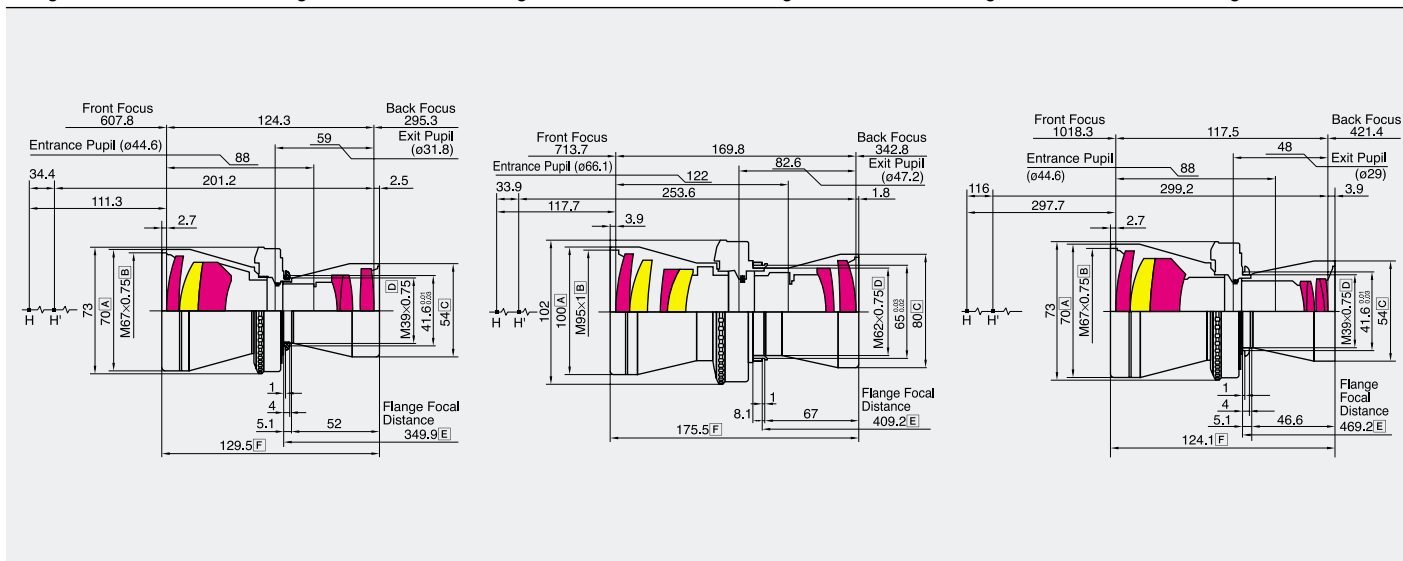


: ED glass elements

ED500_{mm} f/11 ED600_{mm} f/9 ED720_{mm} f/16



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



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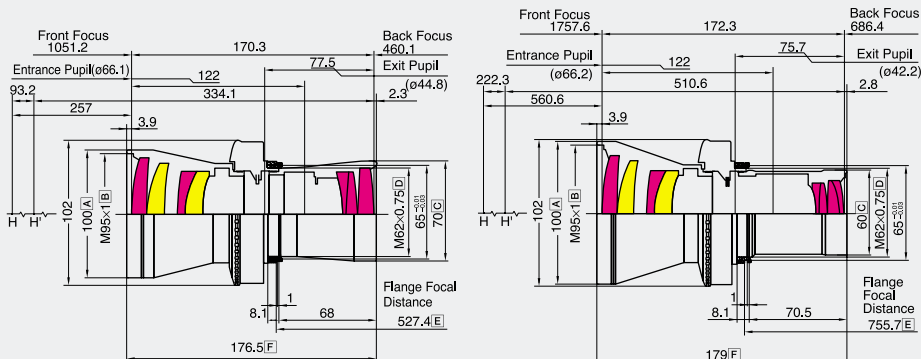
ED800_{mm} f/12 ED1200_{mm} f/18



Nikkor-T ED 800mm f/12

Focal length	800mm	Focal length	1200mm
Maximum aperture ratio	1:12	Maximum aperture ratio	1:18
Minimum aperture	f/64	Minimum aperture	f/64
Lens construction	7 elements in 5 groups	Lens construction	8 elements in 5 groups
Covering power (f/12)	14°	Covering power (f/18)	10°
Covering power (f/22)	22°	Covering power (f/22)	15°
Image circle (f/12)	ø200mm	Image circle (f/18)	ø200mm
Image circle (f/22)	ø310mm (8" x 10")	Image circle (f/22)	ø310mm (8" x 10")
Shutter	No. 3 (Copal® *)	Shutter	No. 3 (Copal® *)
Shutter speed	1 ~ 1/125 s, T, B	Shutter speed	1 ~ 1/125 s, T, B
Sync socket	X-contact	Sync socket	X-contact
Front mount size Å	ø100mm	Front mount size Å	ø100mm
Attachment size ⊥	ø95mm x 1mm (P)	Attachment size ⊥	ø95mm x 1mm (P)
Rear mount size Ç	ø70mm	Rear mount size Ç	ø60mm
Flange attachment size Î	ø62mm x 0.75mm (P)	Flange attachment size Î	ø62mm x 0.75mm (P)
Flange focal distance %	527.4mm	Flange focal distance %	755.7mm
Overall length Ì	176.5mm	Overall length Ì	179mm
Weight	1,600g	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.



: ED glass elements

M series

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.

200_{mm} f/8_s



300_{mm} f/9

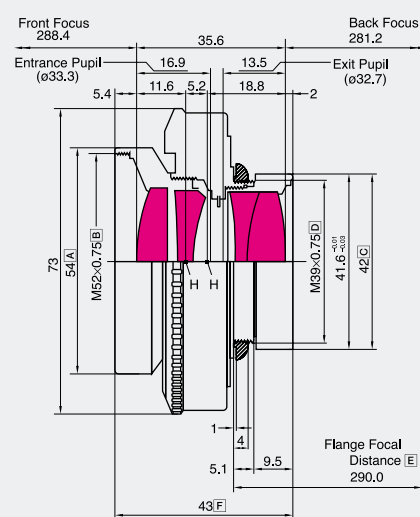
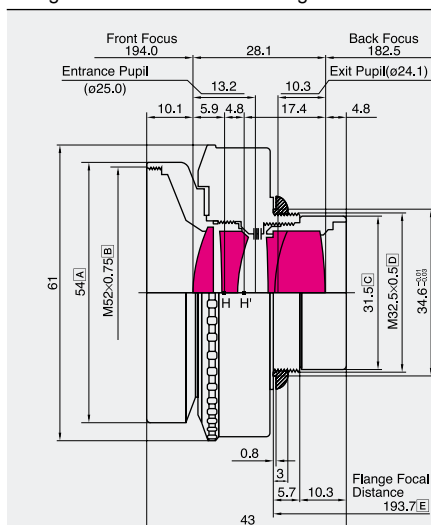


Nikkor-M 200_{mm} f/8_s

Focal length	200mm
Maximum aperture ratio	1:8
Minimum aperture	f/64
Lens construction	4 elements in 3 groups
Covering power (f/8)	45°
Covering power (f/22)	55°
Image circle (f/8)	ø166mm
Image circle (f/22)	ø210mm (5" x 7")
Shutter	No. 0 (Copal® *)
Shutter speed	1 ~ 1/500 s, T, B
Sync socket	X-contact
Front mount size Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø31.5mm
Flange attachment size Î	ø32.5mm x 0.5mm (P)
Flange focal distance 8	193.7mm
Overall length İ	43mm
Weight	180g

Nikkor-M 300_{mm} 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°
Covering power (f/22)	57°
Image circle (f/9)	ø312mm
Image circle (f/22)	ø325mm (8" x 10")
Shutter	No. 1 (Copal® *)
Shutter speed	1 ~ 1/400 s, T, B
Sync socket	X-contact
Front mount size Å	ø54mm
Attachment size 1	ø52mm x 0.75mm (P)
Rear mount size Ç	ø42mm
Flange attachment size Î	ø39mm x 0.75mm (P)
Flange focal distance 8	290.0mm
Overall length İ	43mm
Weight	290g



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450_{mm} f/9



Nikkor-M 450_{mm} f/9

Focal length	450mm
Maximum aperture ratio	1:9
Minimum aperture	f/128
Lens construction	4 elements in 3 groups
Covering power (f/9)	50°
Covering power (f/22)	52°
Image circle (f/9)	ø420mm
Image circle (f/22)	ø440mm (10" x 12")
Shutter	No. 3 (Copal® *)
Shutter speed	1 ~ 1/125 s, T, B
Sync socket	X-contact
Front mount size Å	ø70mm
Attachment size ı	ø67mm x 0.75mm (P)
Rear mount size Ç	ø60mm
Flange attachment size İ	ø62mm x 0.75mm (P)
Flange focal distance %	428.4mm
Overall length İ	55mm
Weight	640g

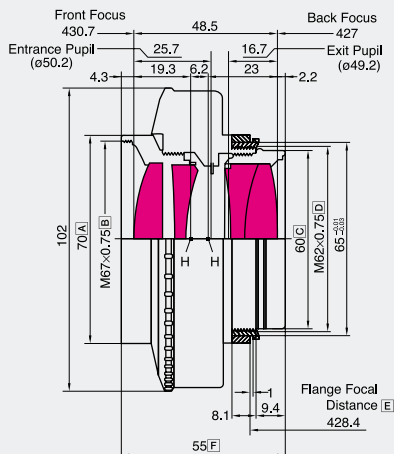
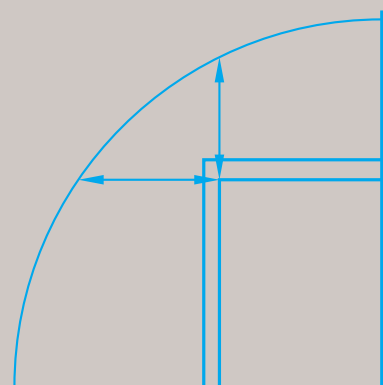
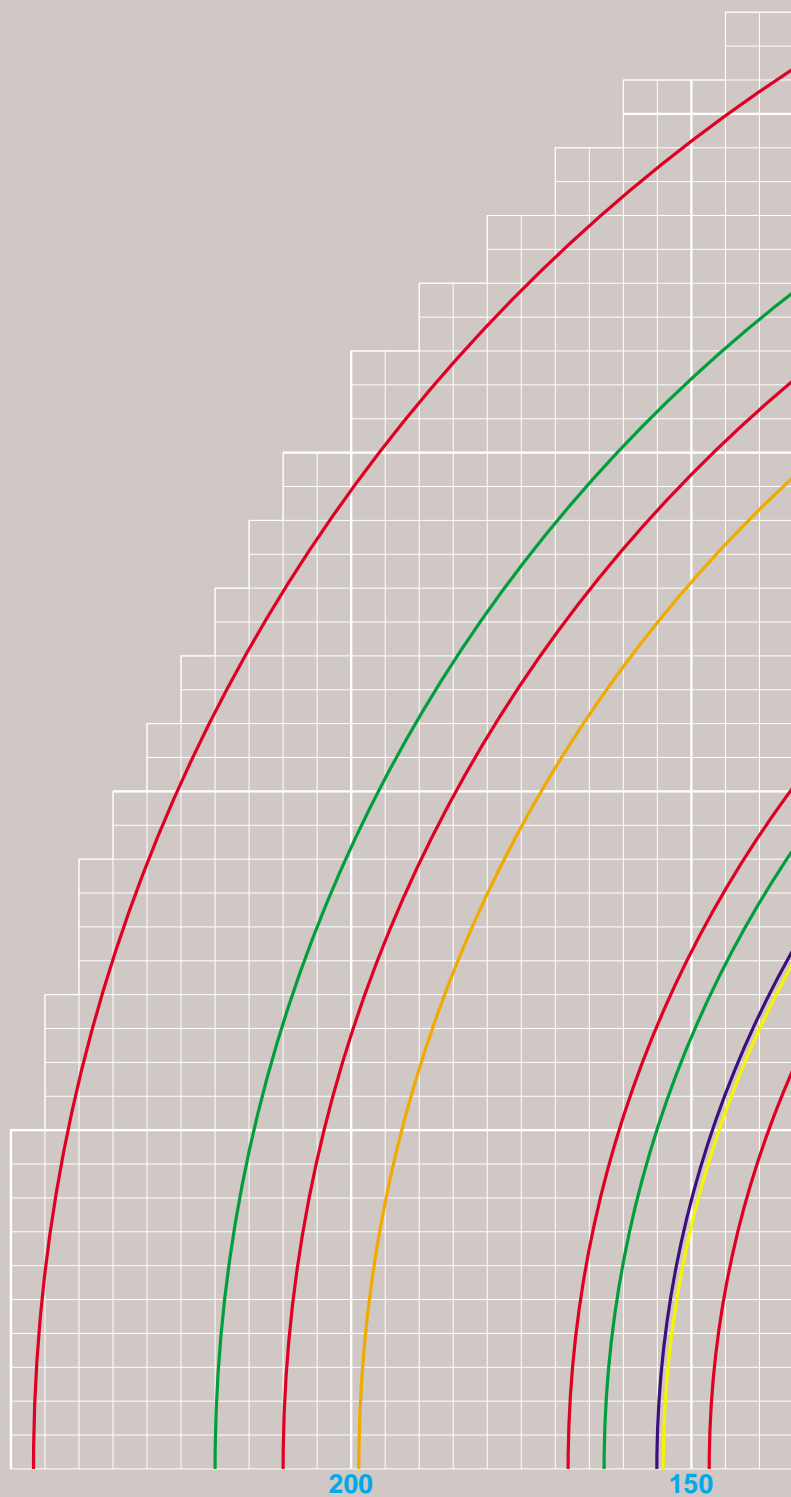


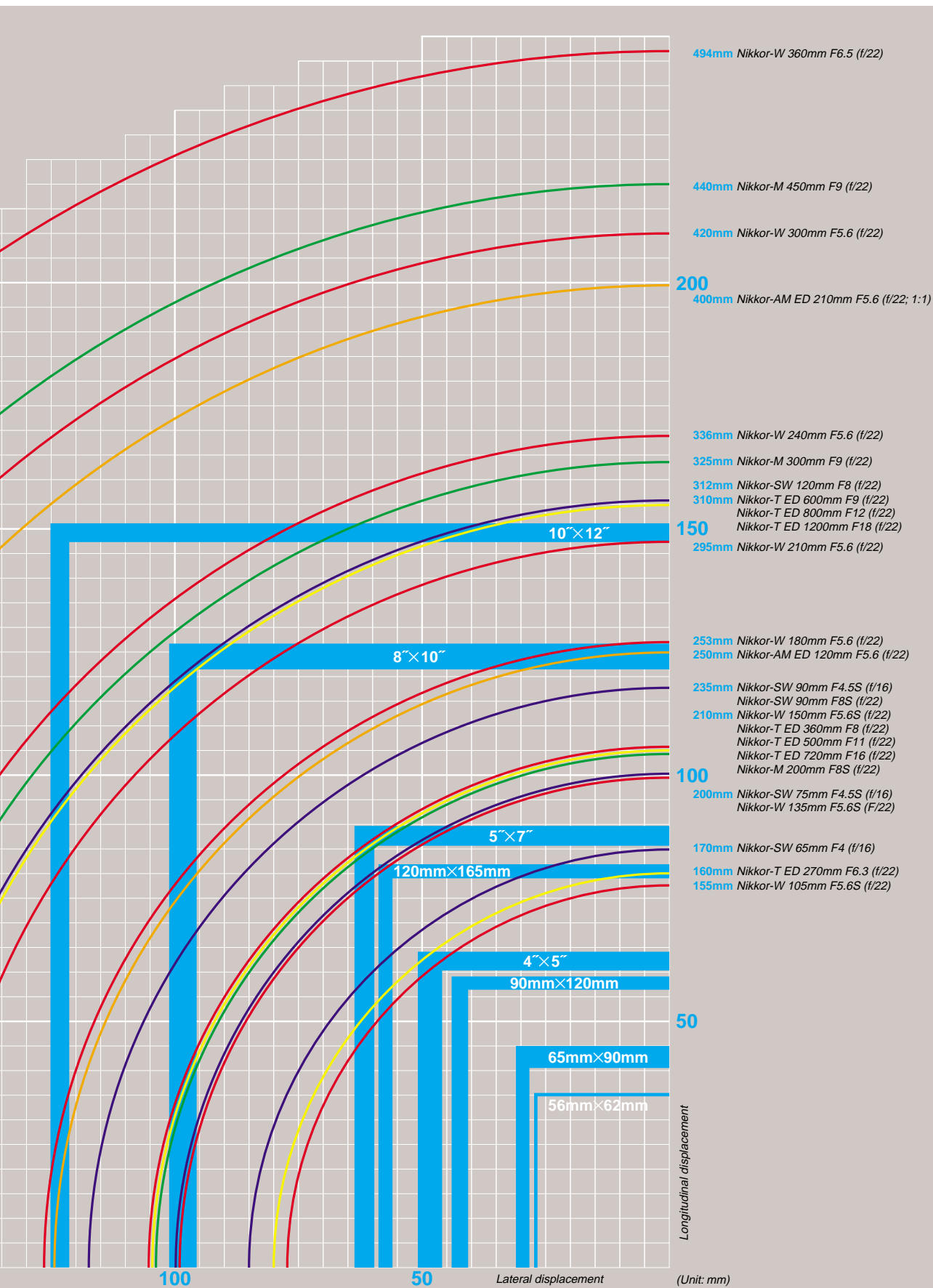
Image Circle Chart

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.





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WARNING

TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY
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NIKON CORPORATION

Fuji Bldg., 2-3, Marunouchi 3-chome, Chiyoda-ku,
Tokyo 100-8331, Japan
<http://nikonimaging.com>

