

Nikon

Nikkor Auto 50mm f/2

The Nikkor Auto 50mm f/2 is a versatile normal focal-length lens with a relatively large maximum aperture. Highly corrected for aberrations, this lens offers critical definition across the entire picture frame and all the way down to the macro range.

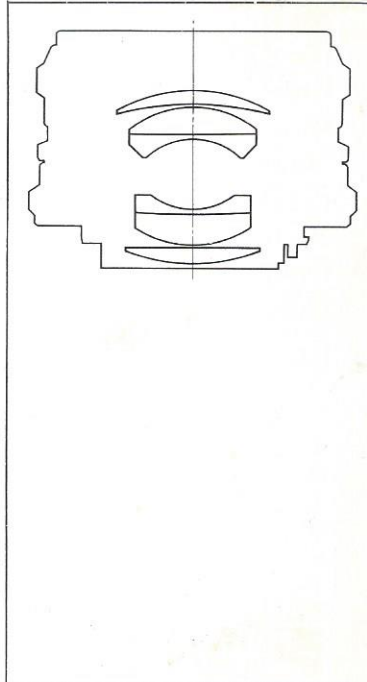
The lens features a multi-layer, anti-reflection coating on air-to-glass surfaces for crisp, high-contrast images. This coating minimizes flare and ghost, particularly at its maximum aperture. And in addition, gives excellent color rendition with color films.

Automatic diaphragm control, combined with the higher rate of light transmission, guarantees the brightest possible image through the viewfinder for composing and focusing. The lens coupling prong connects the lens with Nikkor-mat and Photomic-series thru-the-lens meters

for full-aperture exposure measurement. This lens is an ideal choice for general photography and with various accessories perfectly suited for close-up work.

Specifications

Focal length/aperture:	50mm f/2
Picture angle:	46°
Lens construction:	6 elements in 4 groups
Diaphragm:	Automatic; stops down to f/16
Meter coupling prong:	Provided
Focusing range:	∞ to 2 ft (0.6m)
Attachment size:	52mm screw-in (P = 0.75mm)
Dimensions:	64.5mmφ x 48mm
Weight:	205g



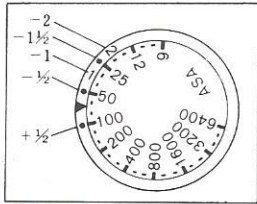
Nikon NIPPON KOGAKU K.K. Tokyo, Japan

Recommended Focusing Screens

Seventeen different focusing screens are available for Nikon F and F2 cameras to suit any type of lens or picture-taking situation. Those which are recommended for use with the 50mm f/2 are listed below.

Screen	A/L	B	C	D	E	G1	G2	G3	G4	H1	H2	H3	H4	J	K	M
F	o	o			o	o+½	o+½			o+½	o+½			o	o	
F2	o	o			o	o+½	o+½			o+½	o+½			o	o	

o Especially recommended



Note: Because the light-transmitting properties of some focusing screens differ from those of ordinary screens, certain lens-screen combinations require exposure correction to compensate for the influence of the screen. The table above shows the exposure correction in f-stops. +½ means that exposure should be increased by ½ stop, -½ means that it should be decreased ½ stop and so forth. With Photomic-series finders this is done by setting the number on the film speed dial corresponding to the ASA speed of the film in use next to the appropriate mark engraved on the film index ring. For example, if you are using ASA 100 film with the type G1 screen in the Nikon F2, lift and turn the ring so that the number 100 appears opposite the +½ mark as shown in the illustration.

Photographic Ranges with Close-Up Attachments

(in.)

Close-up attachment	Lens in normal position			Lens in reverse position		
	Repro. ratio	Subject field	Focused distance	Repro. ratio	Subject field	Focused distance
E2 Ring	1/3.7–1/2.7	3.5x5.3–2.5x3.8	11.8–10.0			
* K Ring Set	1/8.9–1.0	8.4x12.6–0.95x1.4	22.0–7.8			
Bellows PB-4, PB-5	1/1.2–3.6	1.1x1.7–0.26x0.39	7.9–11.7	1.6–4.4	0.59x0.89–0.21x0.32	9.1–13.2
Slide-Copying Adapter PS-4, PS-5	1/1.2–2.4	1.1x1.7–0.39x0.59	7.9–9.5	1.6–4.4	0.59x0.89–0.21x0.32	9.1–13.2
Close-Up Lens No. 0	1/27–1/7.1	25.8x38.7–6.7x10.1	59.0–18.3			
Close-Up Lens No. 1	1/13–1/5.6	12.3x18.5–5.2x7.8	30.2–15.2			
Close-Up Lens No. 2	1/6.6–1/3.9	6.2x9.3–3.7x5.5	17.0–11.8			
** Repro-Copy Outfit PF-2	1/14–1/9.7	13.4x20.1–9.1x13.7	33.5–23.6			

(cm)

Close-up attachment	Lens in normal position			Lens in reverse position		
	Repro. ratio	Subject field	Focused distance	Repro. ratio	Subject field	Focused distance
E2 Ring	1/3.7–1/2.7	8.8x13.3–6.4x9.6	30.0–25.3			
* K Ring Set	1/8.9–1.0	21.4x32.0–2.4x3.6	56.1–19.9			
Bellows PB-4, PB-5	1/1.2–3.6	2.9x4.3–0.67x1.0	20.1–29.6	1.6–4.4	1.5x2.3–0.54x0.81	23.2–33.5
Slide-Copying Adapter PS-4, PS-5	1/1.2–2.4	2.9x4.3–1.0x1.5	20.1–24.1	1.6–4.4	1.5x2.3–0.54x0.81	23.2–33.5
Close-Up Lens No. 0	1/27–1/7.1	65.6x98.4–17.0x25.6	150–46.6			
Close-Up Lens No. 1	1/13–1/5.6	31.3x46.9–13.3x19.9	76.8–38.7			
Close-Up Lens No. 2	1/6.6–1/3.9	15.7x23.6–9.3x14.0	43.1–30.1			
** Repro-Copy Outfit PF-2	1/14–1/9.7	34.0x51.1–23.2x34.8	85.0–60.0			

*The left-hand figures are for the K1 ring used alone and the right-hand ones for all five rings used together.

**The figures shown here represent the ranges obtained with the subject on the baseplate, using the lens without any closeup attachment.

Accessories

- 52mm snap-on front lens cap
- Rear lens cap with F-mount
- 52mm screw-in lens hood
- 52mm snap-on lens hood
- 52mm screw-in filters
- Plastic lens case
- Soft case
- Leather case

Lens care

- Always keep the lens surfaces clean, as dust or smudges can interfere with image sharpness. Use lens tissue or a soft brush to remove dust, never cloth or ordinary tissue. Stubborn smudges should be wiped with lens tissue moistened with alcohol or lens cleaner.
- To protect the lens surface from dirt or damage, the use of a UV filter is recommended at all times. The lens hood also helps to protect the lens.
- Keep the lens cap in place whenever the lens is not in use.
- Attach both the front and rear caps when the lens is stored separately.

Depth of field

(ft)

Focused distance	Depth of field							Repro. ratio
	f/2	2.8	4	5.6	8	11	16	
2	1'11-3/4" -2'1/4"	1'11-5/8" -2'3/8"	1'11-1/2" -2'5/8"	1'11-1/4" -2'7/8"	1'11" -2'1-1/8"	1'10-1/2" -2'1-5/8"	1'10" -2'2-1/2"	1/9.9
2.5	2'5-1/2" -2'6-1/2"	2'5-3/8" -2'6-5/8"	2'5-1/8" -2'7"	2'4-3/4" -2'7-3/8"	2'4-1/4" -2'8"	2'3-5/8" -2'8-7/8"	2'2-3/4" -2'10-1/4"	1/13
3	2'11-3/8" -3'3/4"	2'11" -3'1"	2'10-5/8" -3'1-1/2"	2'10-1/3" -3'2-1/8"	2'9-1/2" -3'3"	2'8-1/2" -3'4-3/8"	2'7-1/4" -3'6-5/8"	1/16
3.5	3'5" -3'7"	3'4-5/8" -3'7-3/8"	3'4-1/8" -3'8"	3'3-1/2" -3'8-1/8"	3'2-1/2" -3'10-1/4"	3'1-1/4" -4'3/8"	2'11-1/2" -4'3-5/8"	1/19
4	3'10-3/4" -4'1-3/8"	3'10-1/4" -4'1-7/8"	3'9-5/8" -4'2-3/4"	3'8-5/8" -4'4"	3'7-3/8" -4'5-3/4"	3'5-3/4" -4'8-5/8"	3'3-5/8" -5'1-1/4"	1/22
5	4'10" -5'2-1/8"	4'9-1/4" -5'3-1/8"	4'8-1/8" -5'4-1/2"	4'6-3/4" -5'6-1/2"	4'4-3/4" -5'9-5/8"	4'2-1/4" -6'2-5/8"	3'11-1/8" -6'11-1/8"	1/28
7	6'8" -7'4-3/8"	6'6-1/2" -7'6-3/8"	6'4-3/8" -7'9-1/4"	6'1-5/8" -8'1-3/4"	5'10-1/8" -8'9"	5'5-5/8" -9'9-1/8"	5'1/4" -11'8"	1/40
10	9'3-7/8" -10'9"	9'7/8" -11'2"	8'8-7/8" -11'8"	8'3-5/8" -12'7"	7'9-1/8" -14'1"	7'1-1/4" -17'1"	6'4-1/4" -24'2"	1/57
15	13'6" -16'10"	13' -17'9"	12'3" -19'3"	11'5" -21'10"	10'5" -27"	9'3" -40'7"	7'11-7/8" -142"	1/87
30	24'6" -38'9"	22'9" -44'	20'8" -54'8"	18'4" -83'1"	15'10" -315'	13'3" -∞	10'9" -∞	1/175
∞	131' -∞	93'1" -∞	65'11" -∞	46'8" -∞	33'1" -∞	23'6" -∞	16'9" -∞	1/∞

(m)

Focused distance	Depth of field							Repro. ratio
	f/2	2.8	4	5.6	8	11	16	
0.6	0.593-0.607	0.591-0.610	0.587-0.614	0.581-0.620	0.574-0.629	0.564-0.641	0.551-0.660	1/9.7
0.7	0.690-0.710	0.687-0.714	0.681-0.720	0.674-0.729	0.664-0.741	0.650-0.760	0.631-0.788	1/12
0.8	0.787-0.813	0.782-0.819	0.775-0.827	0.765-0.839	0.751-0.856	0.733-0.882	0.708-0.921	1/14
0.9	0.883-0.917	0.877-0.925	0.867-0.935	0.855-0.951	0.837-0.974	0.814-1.01	0.783-1.06	1/16
1	0.979-1.02	0.971-1.03	0.959-1.04	0.943-1.06	0.922-1.09	0.893-1.14	0.856-1.21	1/18
1.2	1.17-1.23	1.16-1.25	1.14-1.27	1.12-1.30	1.09-1.34	1.05-1.41	0.993-1.52	1/21
1.5	1.45-1.55	1.43-1.58	1.41-1.61	1.37-1.66	1.32-1.74	1.26-1.86	1.18-2.06	1/27
1.7	1.64-1.77	1.61-1.80	1.58-1.84	1.53-1.91	1.47-2.01	1.40-2.18	1.30-2.48	1/31
2	1.91-2.10	1.88-2.14	1.83-2.20	1.77-2.30	1.69-2.46	1.59-2.72	1.46-3.20	1/37
3	2.80-3.23	2.73-3.34	2.63-3.50	2.50-3.76	2.34-4.21	2.14-5.05	1.92-7.09	1/56
5	4.46-5.69	4.27-6.04	4.03-6.61	3.73-7.63	3.37-9.77	2.97-16.2	2.55-∞	1/95
10	8.02-13.3	7.42-15.4	6.70-19.8	5.90-33.3	5.05-∞	4.20-∞	3.39-∞	1/192
∞	40.1-∞	28.4-∞	20.1-∞	14.2-∞	10.1-∞	7.17-∞	5.09-∞	1/∞