

# ZOOM NIKKOR LENSES

The Zoom-Nikkors are lenses of variable focal lengths. By moving the knurled zooming/focusing ring back and forth or by rotating the ring left and right, the focal length of a zoom lens may be changed continuously and speedily, enabling the photographer to select any desirable image size and picture angle while looking through the viewfinder.

Once the zoom lens is focused for a specific subject distance (by turning the focusing ring left and right), it remains in sharp focus at all focal lengths, requiring no re-adjustments.

The depth of field is clearly indicated by color-coded lines for each aperture and focal distance setting.

Using the Zoom-Nikkor Auto lenses, the photographer, keeping his position, is capable of zooming from long-distance to close-distance scenes, or the other way round, adjusting the image size and picture angle at will.

Moreover, varying background effects can be obtained by maintaining constant image size while changing the camera-to-subject distance. (The shorter the focal length, the greater the depth of field and background sharpness.)

In all there are five interchangeable Zoom-Nikkor Auto lenses with focal lengths ranging from medium wide angle to super telephoto:

- 43mm – 86mm f/3.5 Zoom-Nikkor Auto
- 50mm – 300mm f/4.5 Zoom-Nikkor Auto
- 80mm – 200mm f/4.5 Zoom-Nikkor Auto
- 85mm – 250mm f/4 Zoom-Nikkor Auto
- 200mm – 600mm f/9.5 Zoom-Nikkor Auto

They offer superb resolution and color rendition at all focal lengths comparable to those of individual lenses with the corresponding fixed focal lengths.



This compact lens, composed of 9 elements in 7 groups, is capable of zooming continuously from semi-wideangle (43mm) through normal to semi-telephoto (86mm).

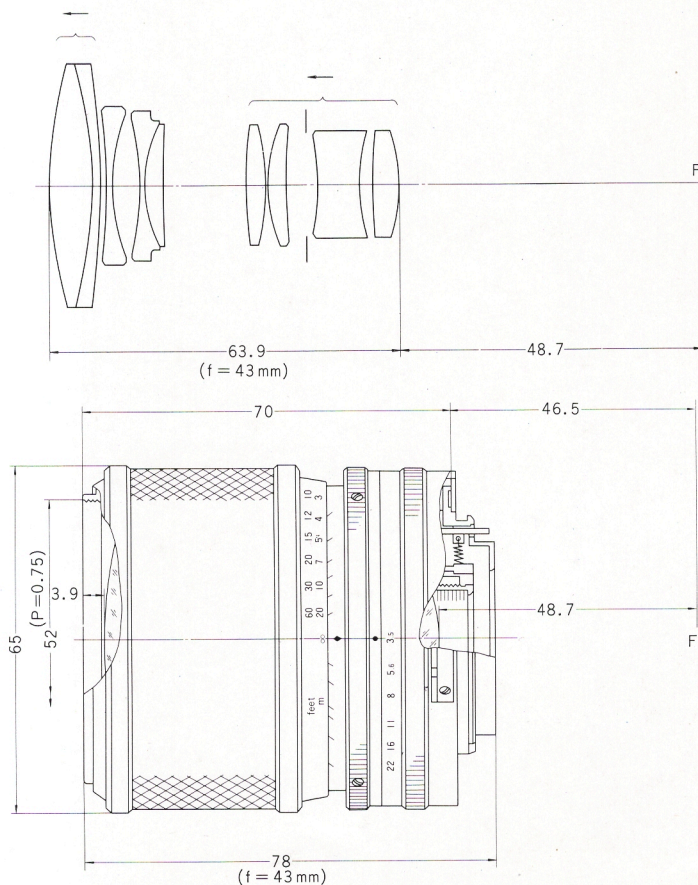
Focusing, though possible at any focal length, is most easily accomplished at the longest lens extension because of the large image size and small depth-of-field. Lens aperture remains constant throughout the zooming range.

Within its zooming range of 43mm to 86mm, the sharpest image is obtained at the focal length of 60mm and focused distance of about 3 meters or 10 feet.

In the design of this lens, special emphasis has been given to compactness and lightness for utmost mobility and ease of handling.

Hence, this Zoom-Nikkor is suitable for general photography, including candids, landscapes, portraits and sports coverage, where the photographer wishes to change the focal lengths in quick succession without having to change his lens.

Focal length:	43mm — 86mm
Maximum aperture:	1 : 3.5
Lens construction:	9 elements in 7 groups
Picture angle:	53° (f=43mm) — 28°30' (f=86mm)
Distance scale:	Graduated both in meters and feet up to 1.2m and 4ft
Aperture scale:	f/3.5 — f/22
Aperture diaphragm:	Fully automatic
Meter coupling prong:	Integrated (fully open exposure metering)
Focusing:	By turning the zooming/focusing ring
Zooming:	By back and forth movement of the zooming/focusing ring (reference markings for 43, 50, 60, 70 and 86mm)
Attachment size:	52mm (P=0.75)
Filter:	52mm screw-in
Dimensions:	65mm dia. X 78mm length (2-9/16 in. X 3-1/16 in.)
Weight:	410g (14.5 oz)
Accessories:	52mm snap-on front cap (108-00-400), plastic case type L (108-02-300), rear cap type F (108-00-400), 52mm screw-in lens hood (108-01-203), leather case (108-02-304), plastic case type L (108-02-300), flexible pouch No. 52 (108-02-302)



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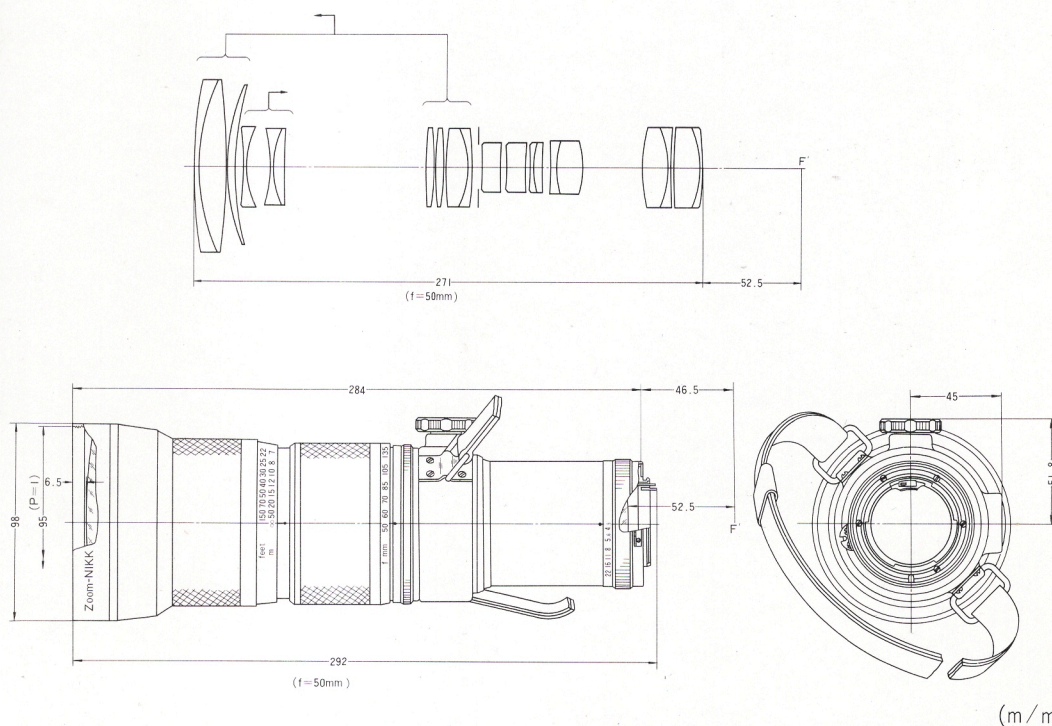


This zoom lens covers the most frequently used focal lengths from 50mm (normal) to 300mm (telephoto). Its extraordinary zooming ratio of 6X makes it the most versatile zoom lens designed for still cameras.

Chromatic aberrations, generally present at longer focal lengths, have been virtually eliminated by an ingenious lens design, providing superb resolution and high contrast throughout the zooming range. Unlike other Zoom-Nikkor lenses, this lens has two separate rings for focusing and zooming. It is only 290mm long despite its maximum focal length of 300mm.

With all these outstanding features, this Zoom-Nikkor is ideal for action and sports events and wildlife photography.

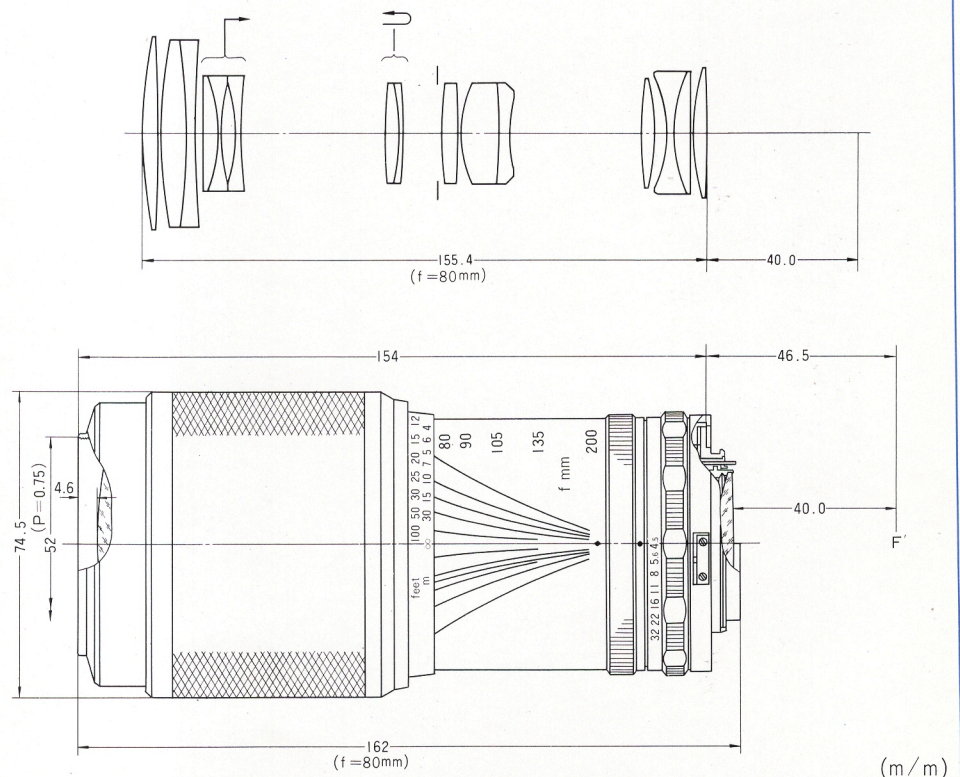
Focal length:	50mm — 300mm
Maximum aperture:	1 : 4.5
Lens construction:	20 elements in 13 groups
Picture angle:	46° (f=50mm) — 8°10' (f=300mm)
Distance scale:	Graduated both in meters and feet up to 2.5m and 8.5ft
Aperture scale:	f/4.5 — f/22
Aperture diaphragm:	Fully automatic
Meter coupling prong:	Integrated (fully open exposure metering)
Focusing:	By turning the focusing ring
Zooming:	By turning the zooming ring (reference markings for 50, 60, 70, 85, 105, 135, 200, 250 and 300mm)
Attachment size:	95mm (P=1.00)
Filter:	95mm screw-in
Tripod socket:	Rotatable (equipped with click stops at each 90°)
Dimensions:	98mm dia. X 292mm length (3-27/32 in. X 11-1/2 in.)
Weight:	2.3 kg (5.1 lb)
Accessories:	95mm screw-in front cap (108-05-401), rear cap type F (108-00-401), 95mm screw-in lens hood (108-05-201), leather camera-lens case (108-05-301)





This is a compact, lightweight zoom lens which is about the same length as (but a little heavier than) the 200mm Nikkor Auto lens. It is easy to hold and balances well for hand-held shots. The 2.5X zooming range covers the critical focal lengths of medium telephoto lenses most frequently used in photo-journalism and general photography. This coverage is also very useful for sports and news photography. Zooming and focusing may be accomplished singly or simultaneously with the linear travel and rotation of the lens sleeve. Instant response to fast moving subjects is an outstanding feature of this lens. The angle of view during zooming varies from  $30^{\circ}10'$  to  $12^{\circ}20'$ . Five focal lengths are indicated on the lens barrel for the convenience of the photographer. The 80mm — 200mm Zoom Nikkor, mounted on the Nikon camera fitted with motor drive and pistol grip, offers great mobility. With its extensive zooming range it is an excellent choice for the newspaper, magazine and industrial and commercial photographers.

Focal length:	80mm — 200mm
Maximum aperture:	1 : 4.5
Lens construction:	15 elements in 10 groups
Picture angle:	$30^{\circ}10'$ (f=80mm) — $12^{\circ}20'$ (f=200mm)
Distance scale:	Graduated both in meters and feet up to 1.8m and 6ft
Aperture scale:	f/4.5 — f/32
Aperture diaphragm:	Fully automatic
Meter coupling prong:	Integrated (fully open exposure metering)
Focusing:	By turning the zooming/focusing ring
Zooming:	By back and forth movement of the zooming/focusing ring (Reference markings for 80, 90, 105, 135 and 200mm)
Attachment size:	52mm (P=0.75)
Filter:	52mm screw-in
Dimensions:	74.5mm dia. X 162mm length (2-15/16 in. X 6-11/32 in.)
Weight:	830g (29.3oz)
Accessories:	52mm snap-on front cap (108-00-400), rear cap type F (108-00-401), leather case CL-10 (108-02-311), 52mm screw-in lens hood (108-02-201), flexible pouch No. 53 (108-02-303)





## 85mm—250mm f/4 Zoom-Nikkor Auto

Code No. 108—05—107 (in meters)  
108—05—108 (in feet)

This zoom telephoto lens is an improved version of the 85mm—250mm f/4.5 Zoom-Nikkor which has proven to be the most popular Nikkor Zoom lens since its introduction. Its maximum aperture of f/4 now remains unchanged throughout the entire 2.9X Zooming range.

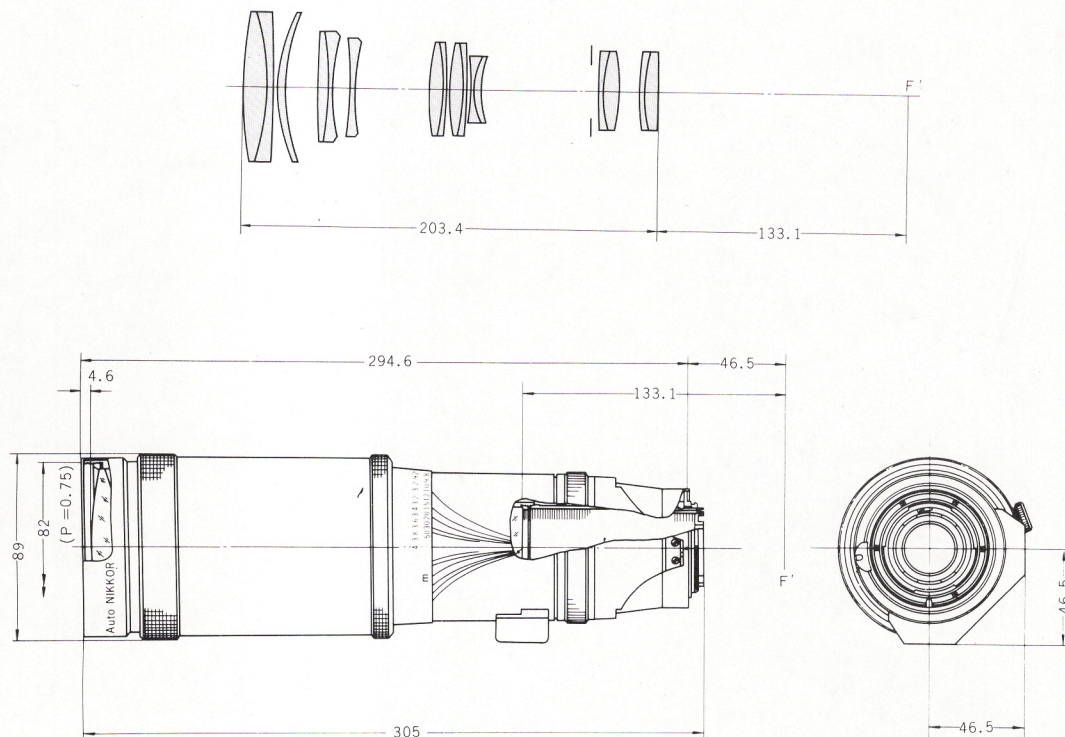
Zooming and focusing may be made singly or simultaneously with the linear travel and rotation of the lens barrel sleeve.

The angle of view during zooming varies from 28°30' to 10°. Seven focal lengths are scaled on the lens barrel for convenience.

The 85mm—250mm f/4 Zoom-Nikkor will provide great mobility especially when it is mounted on the motorized Nikon camera.

The zoom lens is well adapted to such picture taking as sports, nature, commercial and general shooting.

Focal length:	85mm—250mm
Maximum aperture:	1 : 4
Lens construction:	16 elements in 9 groups
Picture angle:	28°30' (F=85mm) —10° (F=250mm)
Distance scale:	Graduated in meters or feet up to 4m or 13ft. With close-up attachment, from 4m to 2.2m or from 13ft to 7.5ft
Aperture scale:	f/4—f/16
Aperture diaphragm:	Fully automatic
Meter coupling prong:	Integrated (fully open exposure metering)
Focusing:	By turning the zooming/focusing ring
Zooming:	By back and forth movement of the zooming/focusing ring (with the reference markings for 85, 105, 135, 150, 180, 200 and 250mm)
Attachment size:	82mm (P=0.75)
Filter:	Series 9
Dimensions:	89mm dia. X 305mm length (3-1/2 in. X 12 in.)
Weight:	2kg (4.4 lb)
Accessories:	100mm slip-on front cap (108—05—400), rear cap type F (108—00—401), 82mm screw-in lens hood (108—05—200), Leather camera lens case (108—05—300)



(m/m)



## 200mm—600mm f/9.5 Zoom Nikkor Auto

Code No. 108-05-110 (in meters)  
108-05-111 (in feet)

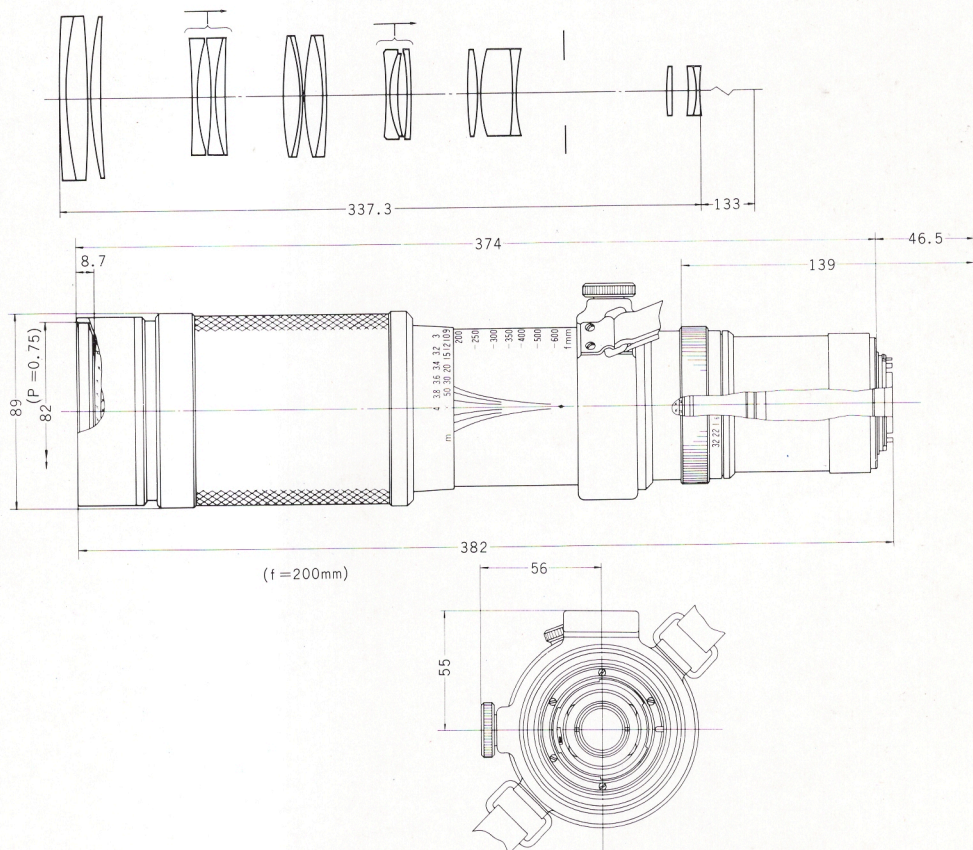
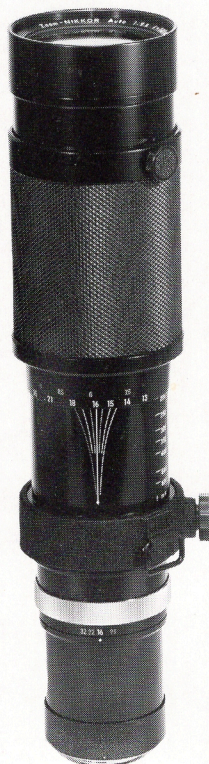
This new Zoom-Nikkor Auto telephoto lens features many optical and other improvements over its well-known predecessor. It is also shorter with less bulk and weight. The fully automatic diaphragm and maximum f/9.5 aperture are maintained over the entire focusing range. It is composed of 19 elements in 12 groups to ensure excellent correction of aberrations at every focal length and focusing distance. The single push in-out rotating sleeve on the lens barrel controls both zooming and focusing. The depth-of-field scale, engraved as a curved line, can be read for every focal length. The tripod socket is provided on a rotating collar, allowing the camera to be changed rapidly from vertical to horizontal picture format as desired.

An accessory close-up attachment lens adds to the versatility of this fine new lens.

Sports events or space exploration, scientific research or safari, the photographer will find this new Zoom-Nikkor Auto lens valuable in picturing a wide variety of subjects.

A shoulder strap is provided for carrying convenience.

Focal length:	200mm — 600mm
Maximum aperture:	1 : 9.5
Lens construction:	19 elements in 12 groups
Picture angle:	12°20' (f=200mm) — 4°10' (f=600mm)
Distance scale:	Graduated in meters or feet up to 4m or 13ft. With close-up attachment, from 4m to 2.3m or from 13ft to 7.5ft
Aperture scale:	f/9.5 — f/32
Aperture diaphragm:	Fully automatic
Exposure measurement:	Stop-down method
Focusing:	By turning the zooming/focusing ring
Zooming:	By back and forth movement of the zooming/focusing ring (reference markings for 200, 250, 300, 350, 400, 500 and 600mm)
Attachment size:	82mm (P=0.75)
Filter:	Series 9
Tripod socket:	Rotatable (equipped with click stops at each 90°)
Dimensions:	89mm dia. X 382mm length (3-1/2 in. X 15-1/32 in.)
Weight:	2.3kg (5.1 lb)
Accessories:	100mm slip-on front cap (108-05-400), rear cap type F (108-00-401), 82mm screw-in lens hood (108-05-200), leather camera-lens case CE-3 (108-05-303)



(m/m)