

# SUPER TELEPHOTO NIKKOR LENSES

A series of Nikkor super telephoto lenses—400mm f/4.5 Nikkor-Q Auto, 600mm f/5.6 Nikkor-P Auto, 800mm f/8 Nikkor-P Auto and 1200mm f/11 Nikkor-P—are designed for extra-long distance shots in sports, wildlife and other situations.

All the lenses feature excellent resolution. The angle of view decreases from  $6^{\circ} 10'$  (400mm) to  $2^{\circ}$  (1200mm), giving magnifications from 8X to 24X over the normal 50mm focal length.

As they contain only optics (800mm and 1200mm lenses have manual diaphragms), an accessory Focusing Unit must be placed between the camera and any one of these lenses for focusing and automatic aperture diaphragm operation (automatic diaphragm in the Focusing Unit cannot be used with the 1200mm lens because it gives rise to vignetting). This arrangement reduces the bulkiness and weight of these extra-long focal length lenses, making them less expensive and more convenient to carry around.

These super telephoto lenses, when used in combination with a camera and the Focusing Unit, are too heavy for hand-held shooting and therefore must be mounted securely on a tripod.



## FOCUSING UNIT

Code No. 108-04-600

The Focusing Unit is an intermediate tube that is placed between a camera and any one of the 400mm, 600mm, 800mm and 1200mm super telephoto lenses. It has a focusing device and an automatic diaphragm with click-stops at  $f/4.5$ ,  $f/5.6$ ,  $f/8$ ,  $f/11$ ,  $f/16$  and  $f/22$ . (The automatic aperture cannot be used with the 1200mm lens). The maximum f-number on the focusing unit depends on the lens used.

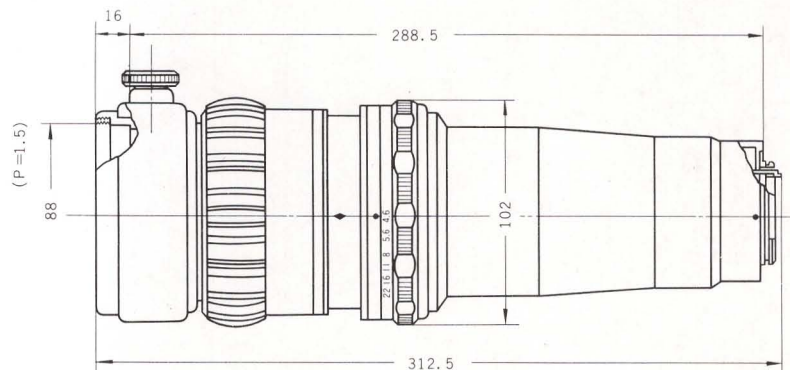
Each super telephoto lens comes with a removable distance scale, which can be detached or attached to the focusing unit by means of screws.

A large scalloped focusing ring is easy to grip when focusing. The unit is also supplied with a shoulder strap for carrying ease.

An accessory cradle for the focusing unit which provides a firm support to the total unit for smoother focusing is available on order.

The tripod socket on a revolving collar allows selection of vertical or horizontal picture format while the entire unit is mounted on a tripod.

Mount:	F-bayonet type (camera side) 88mm screw-in type (lens side)
Aperture diaphragm:	Automatic (except for 1200mm f/11 lens), click-stops to f/22
Tripod socket:	1/4 in. threaded; provided on rotating ring for horizontal and vertical positions
Dimensions:	102mm dia. X 312.5mm length (4-1/32 in. X 12-5/16 in.)
Weight:	1.4 kg (3.0 lb)
Accessories:	rear cap type F (108-00-401), cradle for Focusing Unit (108-04-602)

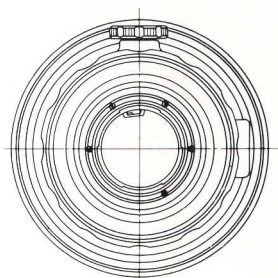
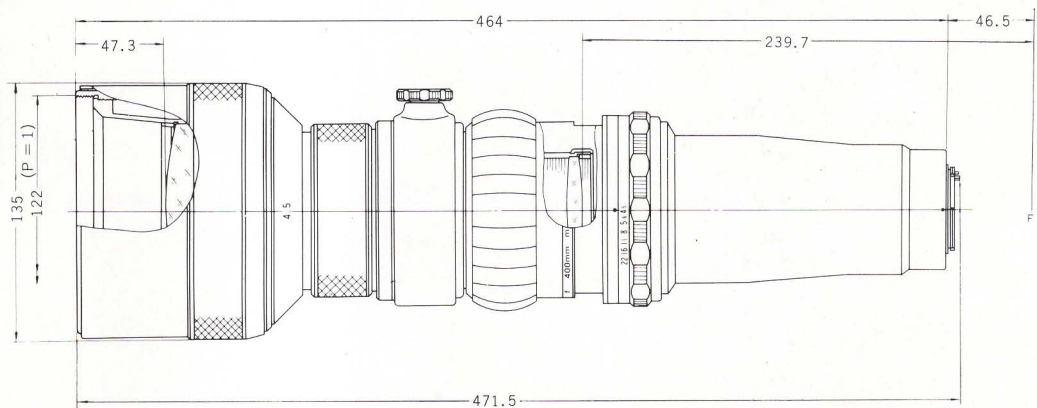
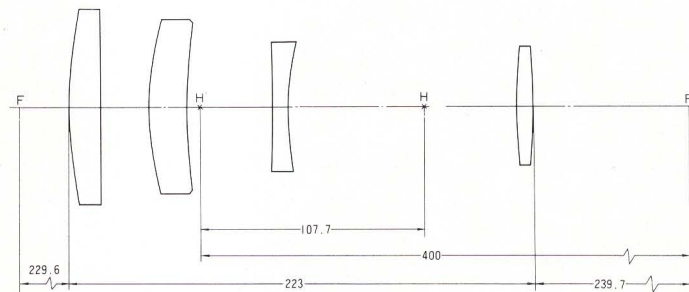


(m / m)

This 400mm telephoto lens is ideal for nature and sports action photography. Consisting of 4 elements in 4 groups, it provides outstanding resolution with high contrast and good color rendition.

Since the lens itself contains only optics, it must be used with the accessory focusing unit for focusing and automatic diaphragm control. It may be focused down to 5m. Complete with a built-in telescopic lens hood.

Focal length:	400mm
Maximum aperture:	1 : 4.5
Lens construction:	4 elements in 4 groups
Picture angle:	6°10'
Distance scale:	Graduated in meters or feet up to 5m or 16ft
Aperture scale:	f/4.5 - f/22
Aperture diaphragm:	Fully automatic
Exposure measurement:	Stop-down method
Attachment size:	122mm (P=1.00)
Filter:	122mm screw-in
Lens hood:	Built-in telescopic type
Dimensions: (w/focusing unit)	135mm dia. X 471.5mm length (5-5/16 in. X 18-9/16 in.)
Weight: (w/focusing unit)	3.1 kg (6.8 lb)
Accessories:	133mm slip-on leather front cap (108-04-400), slip-on leather rear cap, focusing unit (108-04-600), wooden case (108-04-300)



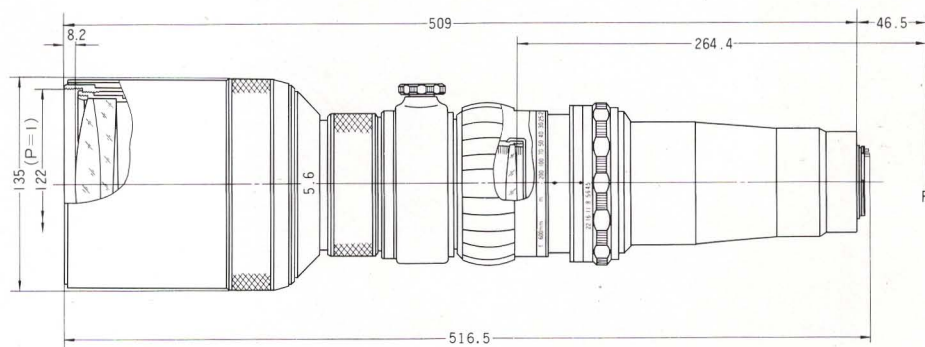
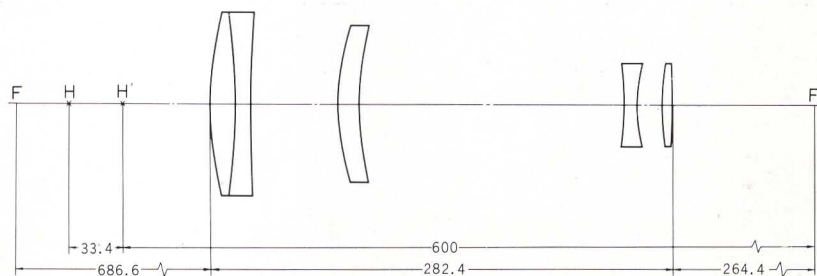
(mm)



This super telephoto lens, consisting of 5 elements in 4 groups, provides sharp image over the entire picture field, and is extensively used for sports and wildlife photography.

It is mounted on a camera with the focusing unit as in the case of the other three super telephoto lenses. The closest focusing distance with this lens is 11m, and the automatic diaphragm may be stopped down from f/5.6 to f/22. With a built-in telescopic lens hood.

Focal length:	600mm
Maximum aperture:	1 : 5.6
Lens construction:	5 elements in 4 groups
Picture angle:	4°10'
Distance scale:	Graduated in meters or feet up to 11m or 35ft
Aperture scale:	f/5.6 – f/22
Aperture diaphragm:	Fully automatic
Exposure measurement:	Stop-down method
Attachment size:	122mm (P=1.00)
Filter:	122mm screw-in
Lens hood:	Built-in telescopic type
Dimensions:	135mm dia. X 516.5mm length
(w/focusing unit)	(5-5/16 in. X 20-11/32 in.)
Weight:	3.6 kg (7.9 lb)
(w/ focusing unit)	
Accessories:	133mm slip-on leather front cap (108-04-400), slip-on leather rear cap, focusing unit (108-04-600), wooden case (108-04-300)



(m/m)

This super telephoto lens is effectively used for sports and nature photography. Consisting of 5 elements in 5 groups, the apochromatic design of this lens minimizes chromatic aberration and ensures superb image quality.

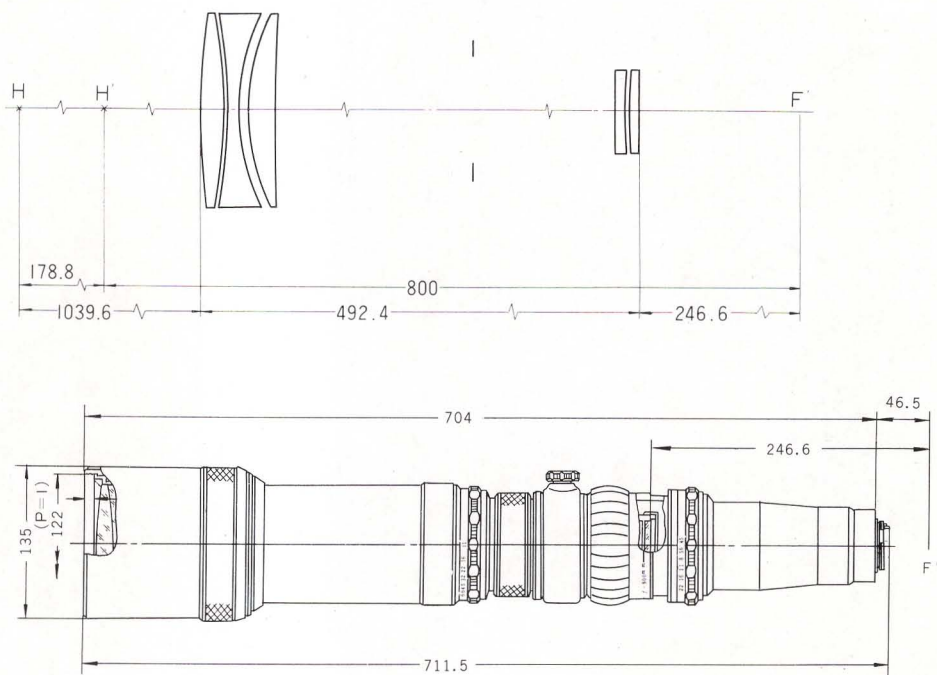
It is mounted on a camera with the focusing unit as in the case of other three super telephoto lenses, and may be focused down to as close as 19m.

In addition to the automatic diaphragm on the focusing unit, which may be stopped down from f/8 to f/22, this lens has its own manual diaphragm from f/8 down to f/64 to ensure greater depth of field. Whichever diaphragm is used, the other diaphragm must be set at full opening.

For this lens, which has a comparatively small aperture of f/8, the use of Focusing Screen Type G4 or H4 is recommended to ensure easy viewing and accurate focusing.

This lens is complete with a built-in telescopic lens hood.

Focal length:	800mm
Maximum aperture:	1 : 8
Lens construction:	5 elements in 5 groups
Picture angle:	3°
Distance scale:	Graduated in meters or feet up to 19m or 61ft
Aperture scale:	f/8 — f/22 (f/64 with manual setting)
Aperture diaphragm:	Fully automatic
Exposure measurement:	Stop-down method
Attachment size:	122mm (P=1.00)
Filter:	122mm screw-in
Lens hood:	Built-in telescopic type
Dimensions:	135mm dia. X 711.5mm length
(w/focusing unit)	(5-5/16 in. X 28 in.)
Weight:	3.5 kg (7.7 lb)
(w/ f focusing unit)	
Accessories:	133mm slip-on leather front cap (108-04-400), slip-on leather rear cap, focusing unit (108-00-401), wooden case (108-04-301)



(m/m)



This is the longest regular-type Nikkor super telephoto lens for 35mm photography.

Magnification is 24 times that of the 50mm normal lens. It is highly useful in photojournalism, sports, wildlife and other types of photography.

Its lens design is of the apochromatic type which virtually eliminates chromatic aberration to ensure superb image quality.

It is mounted on a camera with the focusing unit as in the case of the other three super telephoto lenses.

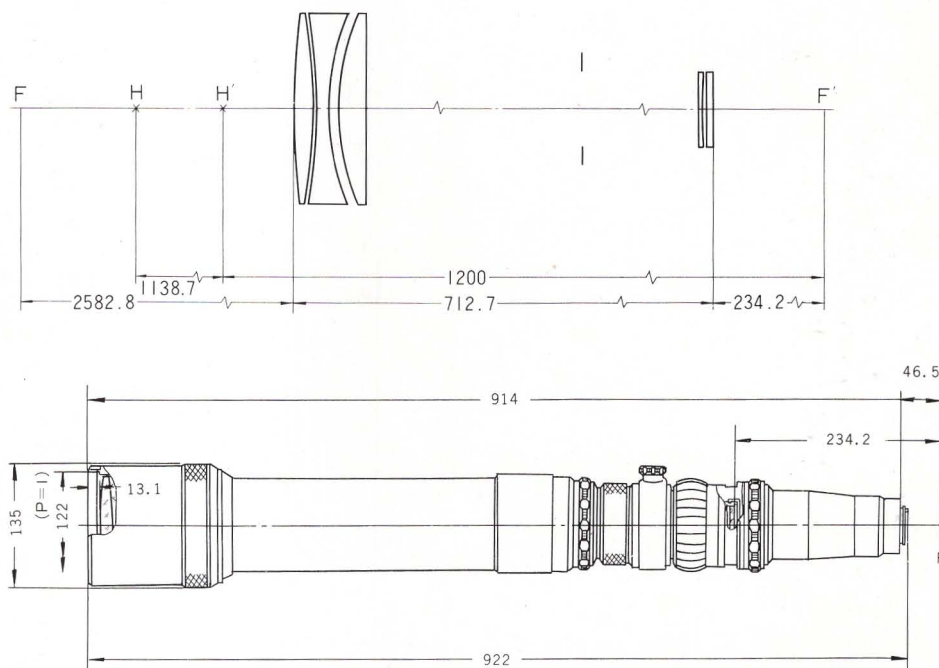
To avoid vignetting, the manual diaphragm, f/11 to f/64, incorporated in the lens should be used instead of the diaphragm in the focusing unit.

When using manual diaphragm, make certain that the focusing unit's automatic diaphragm is set at f/4.5.

The closest focusing distance is 43m. The lens is complete with a built-in telescopic lens hood.

For this lens, which has a comparatively small aperture of f/11, the use of Focusing Screen Type G4 or H4 is recommended to ensure easy viewing and accurate focusing.

Focal length:	1200mm
Maximum aperture:	1 : 11
Lens construction:	5 elements in 5 groups
Picture angle:	2°
Distance scale:	Graduated in meters or feet up to 43m or 139ft
Aperture scale:	f/11 — f/64
Aperture diaphragm:	Manual
Exposure measurement:	Stop-down method
Attachment size:	122mm (P=1.00)
Filter:	122mm screw-in
Lens hood:	Built-in telescopic type
Dimensions:	135mm dia. X 922mm length
(w/focusing unit)	(5-5/16 in. X 36-5/16 in.)
Weight:	4.3 kg (9.5 lb)
(w/focusing unit)	
Accessories:	133mm slip-on leather front cap (108-04-400), slip-on leather rear cap, focusing unit (108-00-600), wooden case (108-04-302)



(m/m)