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Tamron announces Nikon D40-series compatible lenses

AF18–250mm F/3.5–6.3 Di II with built-in motor for Nikon (Model A18N II) RRP \$799.00

AF70–300mm F/4.5–6 Di with built-in motor for Nikon (Model A17N II) RRP \$349.00

Tamron has released two Nikon D40 series-compatible lenses, **AF18–250mm F/3.5–6.3 Di II** and **AF70–300mm F/4.5–6 Di**. These popular lenses are the ultimate high-power zoom lenses. The AF18-250mm F/3.5-6.3 Di II boasts the world's greatest zoom ratio of 13.9x, a milestone that Tamron, the pioneer of high-power zoom lenses, has achieved by applying its optical manufacturing leadership to further expand their capabilities.

The lightweight, compact and ultra high-power zoom lenses, designed for digital SLR cameras with APS-C sized image sensors, now have built-in motors for Nikon.

Main Features

- 1. 13.9x, the largest zoom power in the high-power zoom class, covering an easy-to-use 28mm wide-angle to 388mm ultra-telephoto (when converted to 35mm)**

Tamron's concept for the development of high-power zoom lenses is "one lens does it all", covering wide-angle to telephoto to satisfy customer the need for simplicity in operation and convenience from ultra-compact design. Tamron has always kept this dual concept in mind when designing higher-power zoom ranges. The question, "To what extent can the tele end of a zoom starting with 18mm wide-angle be extended in a lens designed for exclusive use with digital SLRs?" was posed and answered with the development of this ultra high-power zoom lens, possessing the world's largest zoom ratio of 13.9x. It is not too long ago that the world of "wide-angle to ultra telephoto film photography" could only be achieved with a combination of two zoom lenses: 28-200mm + 200-400mm. Now, the world of digital SLR photography can be enjoyed with just a single zoom lens!

- 2. Advanced optical design aimed at optimum power distribution to achieve compactness and high power**

The optical system uses a LD (Low Dispersion) glass element and one AD (Anomalous Dispersion) lens in the first group to minimise on-axis chromatic aberration while achieving the 250mm ultra-tele focal length. In addition, suitable positioning of two hybrid aspherical lens elements serves to meet the desired compactness despite its 13.9x zoom power. In particular, Tamron's engineers have pursued a thorough analysis of the optical configuration of the third lens group for optimum power distribution in the overall optical system. The approach has resulted in excellent compensation of aberrations, including astigmatism; compactness, thanks to downsizing of the first lens group; high zoom power; and optimum optical quality.

Images downloadable from
<http://highres.maxwell.com.au/tamron.html>



3. Revolutionary minimum focusing distance of 0.45m (17.7") throughout the entire zoom range affords a 1:3.5 macro capability

The new zoom lens achieves a minimum focus distance of 0.45m (17.7") throughout the entire zoom range, top of the class capability among high power zoom lenses for digital SLR cameras, which results in a maximum magnification ratio of 1:3.5 at the 250mm tele end.

4. Optical design dedicated for digital SLR photography by optimising the angle of incidence of light rays reaching the image sensor

The zoom lens uses an optical system designed to minimise changing angles of incidence of light rays reaching the image sensor, even when zooming.

5. Outstanding resolution

Since the lens is designed exclusively for digital SLR photography, it provides high image quality resolution, contrast and flatness of image field.

6. Internal surface coating to reduce ghosting and flare

Extensive use is made of "Internal Surface Coatings" (i.e. multiple-layer coatings on bonded surfaces of multi-element lens groups) and new multiple-layer coating technology on standard single lens elements. As a result, ghosting and flare, due to reflections that occur when light enters through the front element and reflections caused by the sensor, are reduced to the absolute minimum.

7. Ultra-high zoom power, yet lightweight and compact design thanks to new mechanisms

Complex advanced mechanisms built into the compact lens body result in excellent portability and ease of use. Based on the mechanical construction of the AF28-300mm (Model A061), Tamron has established a new standard in mechanical lens design technology. The role of each respective barrel part has been optimised in order to achieve high magnification power, compactness and light weight. Additionally, production engineering has been completely overhauled to downsize parts used and to increase their precision and durability in the new zoom lens.

8. Zoom lock

A zoom lock prevents unwanted barrel extension when carrying the lens/camera combination.

9. Flower-shaped lens hood

A flower-shaped lens hood is included as a standard accessory. The special hood provides optimum shading of superfluous light rays that enter from the rectangular frame outside the image field.

10. New external design of the Di II series conveys the image of "high performance, high precision"

- a) Improvements have been made to the external design by adding a gold-coloured band between the focus and zoom rings to enhance appearance and make the product stand out as a Di-II lens.
- b) Black coating over the entire lens barrel creates a high-quality, sophisticated look.
- c) Focus and zoom rings use ergonomic rubber patterns to provide better handling and a design that complements the camera style.

Specifications

Model Name	A18N II	A17N II
RRP	\$799.00	\$349.00
Focal Length	18–250mm	70–300mm
Maximum Aperture	F/3.5–6.3	F/4–5.6
Angle of View	75°33'–6°23' (APS-C size equivalent)	34°21'–8°15'
Lens Construction	16 elements in 13 groups	13 elements in 9 groups
Minimum Focus Distance	0.45m (17.7") (entire zoom range)	1.5m (59") in normal setting 0.95m (37.4") in macro mode (f=180mm-300mm range)
Max. Magnification Ratio	1:3.5 (at f=250mm, MFD 0.45m)	1:2 (at f=300mm MFD 0.95m)
Filter Diameter	62mm	62mm
Overall Length	84.3mm (3.3")*	116.5mm (4.6")*
Maximum Diameter	74.4mm (2.9")*	f76.6mm (3.0")
Weight	452g (15.9oz)	458g (16.2oz)
No. of Diaphragm Blades	7	9
Minimum Aperture	F/22	F/32
Standard Accessory	Flower-shaped Lens Hood	Lens Hood
Compatible Mount	Nikon	Nikon