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## High-power zoom lens with built-in advanced Vibration Compensation, industry-leading macro, suitable for both 35mm film and most DSLR cameras

**AF28–300mm F/3.5–6.3 XR Di VC LD Aspherical (IF) MACRO (Model A20N II) with Built-in AF Motor for Nikon SLR Cameras**

Tamron has started production of the **AF28–300mm F/3.5–6.3 XR Di VC LD Aspherical (IF) MACRO (Model A20N II)** lens. It's a high-power zoom lens compatible with 35mm full-size SLR cameras from Nikon. With a built-in AF motor and featuring Tamron's proprietary VC system (Vibration Compensation), the new lens is especially suited to the new Nikon D60 and best-selling D40 cameras, both of which require lenses with built-in motors.

Since its introduction for Canon SLRs in October 2007, Tamron's AF28–300mm VC zoom lens has been applauded by photographers the world over as a compact high power zoom lens, providing stabilised viewfinder images. The lens covers an angle of view equivalent to that of a 450mm ultra-telephoto lens when mounted on a Nikon digital SLR. The ultra-telephoto range is where Tamron's proprietary VC (Vibration Compensation) mechanism provides its best improvement in handheld telephoto shots, enabling users to enjoy ultra-telephotography with amazingly stable images both in-viewfinder and as shot. The lens covers an angle of view equivalent to 42mm at its wide-angle end on a Nikon DSLR, allowing the user to keep shooting in a wider variety of scenes than the more common telephoto-only 70–300mm zoom can achieve.

Tamron's new 28-300mm VC lens is very compact, yet its 10.7x\* extended zoom range makes it a very handy standard zoom for everyday shooting. The least times a user has to change the lens on their camera, the lower the chance of dust entering the camera, or of missing a fast changing picture scene. It is also one of the few affordable lenses released recently that is just as much at home on a conventional 35mm film SLR camera as it is on a cutting-edge digital SLR that may employ a sensor smaller than a film frame.

\*When the lens is mounted on a digital SLR camera equipped with an APS-C sized image sensor, the 35mm format equivalent is 1.5x the focal length, e.g. 28–300mm becomes 42–450mm.

*Continued overleaf*

Print-resolution image at <http://highres.maxwell.com.au/tamron.html>



### Specifications

Model Name	A20N II
Focal Length	28–300mm (42mm–450mm on APS-sized sensor in digital SLR)
Maximum Aperture	F/3.5–6.3
Angle of View	75°23'–8°15'
Lens Construction	18 elements in 13 groups
Minimum Focus Distance	0.49m (over the entire zoom range)
Maximum Magnification Ratio	1:3 (at f=300mm and 49cm close focus)
Filter Diameter	67mm
Overall Length	99mm*
Maximum Diameter	78.1mm
Weight	555g*
Diaphragm Blade	9 blades
Minimum Aperture	F/22–F/40 (28mm–300mm)
Standard Accessory	Flower-shaped lens hood
Mount	Nikon

\*Values given are those suitable for Nikon SLR and DSLR cameras.

The cosmetic design, specifications and performance are subject to change without notice.

## Main features

### High-power zoom lens allows comfortable ultra telephotography with stabilised viewfinder images

The lens covers everything from 28mm wide-angle to 300mm ultra-telephoto when mounted on a 35mm film SLR camera. On an APS-sensor Nikon DSLR the focal length is equivalent to 42mm wide-angle to 450mm ultra-telephoto\* (diagonal angle of view of 5°20'). Tamron's proprietary VC (Vibration Compensation) mechanism exhibits its power particularly in ultra telephoto photography, allowing the user to expand his/her photographic creativity.

\* When mounted on a digital SLR camera equipped with an APS-C sized image sensor. 35mm format equivalent (Tamron's conversion value is 1.5x applies).

### Tamron's VC mechanism compensates for hand shake: Here's how it works

Tamron's proprietary VC (Vibration Compensation) mechanism employs a "three-coil" system designed to let three coils drive a motion-compensator lens electromagnetically via three steel balls built into the mechanism. Since the compensator lens is supported with the rolling friction of the steel balls, performance is enhanced, while the simplicity of the design enables a really compact overall execution. A highly accurate gyro sensor detects vibration or unsteadiness and delivers extraordinary stability improvement in the recorded image, thanks to a 32-bit RISC CPU.

### High-powered and compact, yet features VC and outstandingly versatile optical design

Tamron's AF28–300mm Di VC zoom lens is the integration of several elements of advanced optical design technology, which Tamron accumulated through its pioneering work in producing award-winning high power zoom lenses. It strikes an ideal balance as it combines state-of-the-art vibration compensation mechanism with an ultra-compact, portable and versatile lens. The optical system uses XR (high refractive index) glass elements, a GM (glass moulded aspherical) element, hybrid aspherical elements, an LD (low dispersion) glass element and an AD (abnormal dispersion) glass element. The optical design results in high definition and exceptional image contrast. The very flat field achieved in this 10.7x zoom enables photographers to respond to a wide variety of photographic scenes that exploit the best features of today's digital SLR cameras.

### Minimum focus distance of 49cm over the entire zoom range for 1:3 maximum magnification ratio

The AF28–300mm Di VC sports a minimum focus distance of just 49cm over the entire zoom range, a best-in-class capability of ultra-zoom zoom lenses suitable for 35mm full-size SLRs. The maximum magnification ratio of 1:3 at the 300mm telephoto end of its range is also the best available in a lens of this type.

### Internal surface coating thoroughly suppresses ghosting and flare

Tamron has employed multi-layer coating on lens elements to reduce reflections from the surface of the lens. Internal surface coatings (coatings on cemented surfaces of lens elements) have also been used to minimise reflections in the mirror box from the imaging sensor in digital SLRs, a problem inherent to digital SLR cameras.

### High-powered, yet lightweight and compact, thanks to inventive mechanical design

In designing the lens, Tamron thoroughly reviewed the various barrel components in minute detail to assess the role each played in creating a lens as compact as possible. As a result, the increase in the overall length of the new VC lens is just 17.8mm. Maximum diameter has been increased by just 5mm compared to the earlier non-VC AF28-300mm lens (Model A061).

### Zoom lock mechanism for convenience in carrying the outfit

The lens has a built-in zoom lock mechanism to prevent the lens barrel sliding downwards when the camera is carried around on the shoulder for extended periods.

### Flower-shaped lens hood as a standard accessory

The lens is supplied with a flower-shaped lens hood as a standard accessory. It efficiently cuts harmful light entering from other than intended angles at the four corners of the frame, to ensure minimal flare and loss of contrast when shooting directly into or close to direct sunlight.

#### **Product name**

AF28–300mm F/3.5–6.3 XR Di VC (IF) MACRO with Built-in AF Motor for Nikon (Model A20N II)

#### **Mounts available**

Canon, Nikon, Pentax and Sony

#### **Availability in Australia**

Mid-June 2008

#### **Expected market price including GST**

\$899

#### **Distributed in Australia by**

Maxwell International Australia Pty Limited

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