

AF28-300mm F/3.5-6.3 XR Di VC


LD Aspherical [IF] MACRO 

TAMRON
New eyes for industry



Tamron's Vibration Compensation — Blur-Stopping Power

With No Annoying Motion Delay In Your Viewfinder!

 Digitally Integrated Design

Model A20 For Canon, Nikon

<http://www.tamron.com>

*The compatibility of A20 for Canon is indicated in the Specification on the back cover.

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200mm \uparrow 7'59" (Equivalent to 310mm) Exposure : Auto (F/12) - 1/8sec. ISO100 RAW
Hand-held (image taken with a digital SLR camera with an APS-C size sensor).



300mm \uparrow 5'20" (Equivalent to 465mm)
Exposure : Auto (F/20) - 1/15sec. ISO100 RAW
Hand-held (image taken with a digital SLR camera with an APS-C size sensor).



28mm \downarrow 52'58" (Equivalent to 43mm)
Exposure : F/16 - 1/4sec. ISO100 RAW
Hand-held
(image taken with a digital SLR camera with an APS-C size sensor).

Comparative Images of VC ON and OFF

— taken under the same conditions using a vibrating table —

● See the effectiveness of Vibration Compensation at Tamron's website — <http://www.tamron.co.jp/en/lineup/a20/vc/>



Focal Length : 300mm
(Equivalent to 465mm)
Exposure : F/9 - 1/30sec.
(image taken with a digital SLR camera with an APS-C size sensor)



Focal Length : 300mm Macro
(Equivalent to 465mm)
Exposure : F/14 - 1/8sec.
MFD : 0.49m Macro Magnification Ratio : 1:3
(image taken with a digital SLR camera with an APS-C size sensor)

Tamron's proprietary actuator and algorithms deliver a smooth, steady viewfinder image for effortless hand-held photography

“Camera vibration” – the bane of hand-held photography

Camera vibration, or camera shake, is the term used to describe the reason a photo comes out blurry when the photographer moves just as he or she presses the shutter button. The resulting image usually looks fuzzy or out of focus. Camera vibration is the primary cause of poor image quality in hand-held photography.

Benefits of using vibration compensation technology

Vibration compensation technology delivers sharply focused photographs even in situations where camera vibration often occurs, such as in low light or when using the telephoto range of a zoom lens. It also enables you to use subject movement to good effect, bringing out the contrast between motion and stillness. You can also shoot without a flash, evoke the real atmosphere of a scene. VC technology made it possible to create exceptional images at slower shutter speeds under conditions where tripod was necessary.

An ultra-high zoom lens featuring Tamron's Vibration Compensation mechanism

This lens covers an extremely broad range of focal lengths, from a wide 28mm to a super telephoto 300mm (the 35mm equivalent of 43mm to 465mm when used on an APS-C digital SLR). Tamron's Vibration Compensation mechanism works

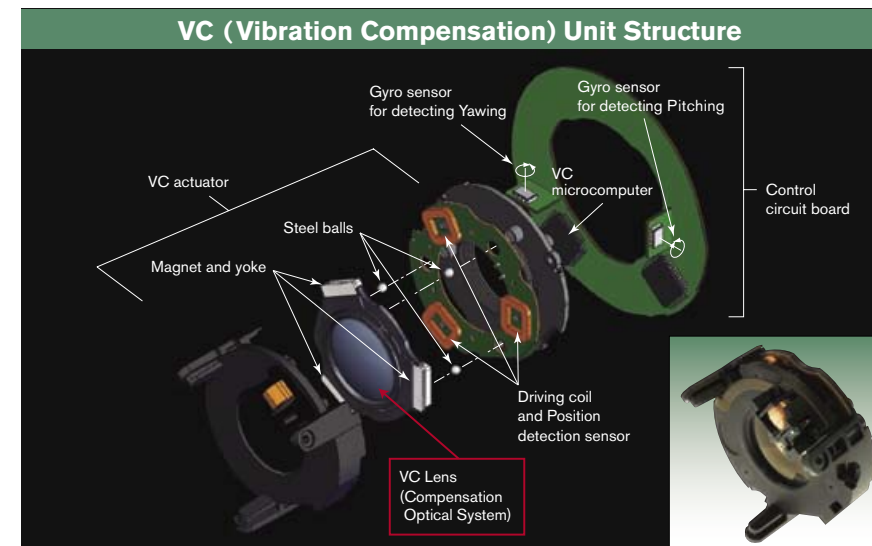
throughout the entire zoom range, giving you the freedom to create a wide variety of different images.

Special features of Tamron's Vibration Compensation mechanism

Thanks to the proprietary actuator and algorithms Tamron has built into this lens, the viewfinder always gives you smooth, steady images. The reliable viewfinder image ensures that you, the photographer, will not be distracted from your most important task – using your camera for maximum creative effect.

Three-coil system ensures a stable viewfinder image in a very compact lens

Tamron's proprietary Vibration Compensation mechanism uses a three-coil system. Three driving coils move the VC lens electromagnetically, based on signals originating from the movement of three steel balls. The lens element that compensates for vibration is held in place only by the steel balls, so there is little friction and the movement is quite smooth. With the element movable in a plane parallel to the image via electronic control alone, a simple mechanical design is realized. This ensures that the size of the lens itself is quite compact.



new

**AF28-300mm F/3.5-6.3
XR Di VC
LD Aspherical [IF] MACRO**

Specifications

Model	A20
Focal Length	28-300mm
Maximum Aperture	F/3.5-6.3
Angle of View	Diagonal: 75°23'-8'15" (52°58'-5'20") Horizontal: 65°28'-6'52" (45°0'-4'26") Vertical: 46°15'-4'21" (30°34'-2'35") ()=the figures when used on APS-C sized digital camera
Lens Construction	18 elements 13 groups
Minimum Focus Distance	0.49m (19.3")
Max.Mag.Ratio	1:3 (at f=300mm, MFD:0.49m)
Overall Length	99mm (3.9")*
Maximum Diameter	ø78.1mm (3.1")
Filter Size	ø67mm
Weight	555g (19.6oz.)*
Diaphragm Blades	9
Minimum Aperture	F/22~F/40 (28mm~300mm)
Standard Accessory	Flower-shaped hood
Compatible Mount	Canon, Nikon

*Values given are for Nikon cameras.

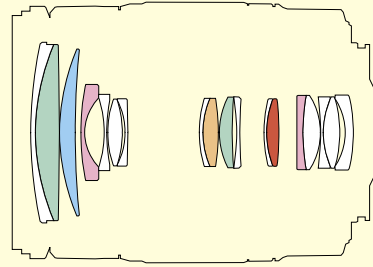
The images in this leaflet are taken with prototype model. The cosmetic design and specs are subject to change without notice.

*When the 28-300mm Di VC (model A20) for Canon is used with EOS-1Ds, the Vibration Compensation Mechanism will not function properly.

*When 28-300mm Di VC (model A20) is used in combination with some of the EOS Series (film camera), the VC function may not work.
*EOS- Rebel T2 (300X, Kiss7), Rebel K2 (3000V, Kiss Lite), 100QD, 100D, 850, 750QD, 650, 620, 630 (630QD, 600)

Lens Construction

<18 elements 13 groups>



■ XR (Extra Refractive-Index) glass ■ LD glass
■ Hybrid Aspherical Lens ■ GM (Glass Molded Aspherical) Lens ■ AD glass

Different Angles of View

Taken with a full-size camera

Diagonal 75°23' Horizontal 65°28'



28mm ▶ Equivalent 43mm

Diagonal 46°48' Horizontal 39°36'



50mm ▶ Equivalent 78mm

Diagonal 24°25' Horizontal 20°24'



100mm ▶ Equivalent 155mm

Diagonal 12°21' Horizontal 10°17'



200mm ▶ Equivalent 310mm

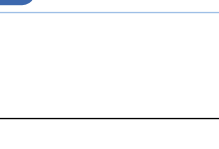
Diagonal 8°15' Horizontal 6°52'



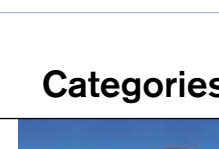
300mm ▶ Equivalent 465mm

Taken with an APS-C size digital camera

Diagonal 52°58' Horizontal 45°0'



Diagonal 31°11' Horizontal 26°7'



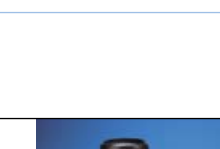
Diagonal 15°53' Horizontal 13°14'



Diagonal 7°59' Horizontal 6°38'



Diagonal 5°20' Horizontal 4°26'



Categories of Tamron's Di lens series

Di II Lens Series

For APS-C Digital



Designed exclusively for digital cameras with APS-C size imagers

Di-II lenses are designed exclusively for digital SLRs with APS-C size imagers. This series of lenses are not designed for 35mm film cameras and digital SLR cameras with image sensors larger than 24 x 16mm.

SP AF11-18mm F/4.5-5.6 Di II (Model A13) AF18-200mm F/3.5-6.3 XR Di II (Model A14)
SP AF17-50mm F/2.8 XR Di II (Model A16) AF18-250mm F/3.5-6.3 Di II (Model A18)
AF55-200mm F/4-5.6 Di II (Model A15)

NOTE : Vignetting occurs when pictures are taken with a Di-II lens mounted on a full-size format SLRs camera or a digital SLRs with a image sensor larger than 24 x 16mm.

Di Lens Series



Digitally integrated design

Di lenses are designed to fit the characteristics of digital cameras as well as film cameras by paying attention to countermeasures against ghosting and flare through such advances as special coatings.

SP AF17-35mm F/2.8-4 Di (Model A05) AF28-200mm F/3.8-5.6 XR Di (Model A031)
SP AF28-75mm F/2.8 XR Di (Model A09) AF70-300mm F/4-5.6 Di Macro 1:2 (Model A17)
AF28-300mm F/3.5-6.3 XR Di VC (Model A20) SP AF200-500mm F/5-6.3 Di (Model A08)
AF28-300mm F/3.5-6.3 XR Di (Model A061) SP AF90mm F/2.8 Di Macro 1:1 (Model 272E)
SP AF180mm F/3.5 Di Macro 1:1 (Model B01)

NOTE : The angles of view obtained by a "Di" lens mounted on a digital camera with smaller-size imagers differ from those obtained by the same lens mounted on a full-size format SLRs.

Caution : Please read the instruction manual carefully before using the lens.

TAMRON

Manufacturer of precise and sophisticated optical products for a broad range of industries.



Quality Assurance Activities: At Tamron, quality management activities are performed in compliance with ISO9001:2000 not only to assure product quality but to enhance customer satisfaction.

Environmental Protection: We recognize the significance of our social responsibilities. Tamron promotes corporate activities that protect the earth's environment through the establishment of a quality assurance system that is compliant with ISO14001.

Head Office

TAMRON USA, INC.

10 Austin Boulevard, Commack, NY 11725, USA
Tel: (631) 858-8400 Fax: (631) 543-3963
Website: <http://www.tamron.com>

In Canada:

Amplis Foto Inc.
22 Telson Rd. Markham, Ont, L3R 1E5
Tel: (905) 477-4111 Fax: (905) 477-2502
E-mail: info@amplis.com
Website: <http://www.amplis.com>

TAMRON CO., LTD. <http://www.tamron.co.jp/en>

1385, Hasunuma, Minuma-ku, Saitama-shi, Saitama 337-8556 JAPAN Tel: +81-48-684-9339 Fax: +81-48-684-9349

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