

**TAMRON**

**LENS CATALOGUE**

[www.tamron.com](http://www.tamron.com)



# To capture the world extending before your eyes.

The latest entries of the SP series, the 35mm and 45mm lenses not only adapt to increasing camera resolutions and attain top optical performance, but also represent the uncompromising pursuit of functionality, ease of operation and design.

In addition to advanced digital technologies and high-precision optical design, Tamron's passion and technical prowess has been poured into every aspect, from lens molding and polishing to coatings and their elaborate assembly.

The 35mm & 45mm lenses employ molded-glass aspherical elements that achieve high imaging performance and low dispersion glass elements that compensate for chromatic aberrations. The lenses are also equipped with high performance VC image stabilization along with fast and quiet USD ultrasonic motors.

What's more, an astounding close minimum object distance has been achieved, opening up new possibilities of photographic expression.



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MODEL F012 Focal length: 35mm Exposure: F/1.8 at 1/15 sec

## Fixed Focal Lens

Di



New MODEL F012

**SP 35mm F/1.8 Di VC USD** for Nikon, Canon

**SP 35mm F/1.8 Di USD** for Sony\*<sup>1</sup> (Sony mount model to be released.)

An F/1.8 fast-aperture 35mm wide-angle lens with built-in VC image stabilization.

Achieving class-leading\* close-focusing capability with a minimum object distance of 0.2m

This lens corrects for various aberrations through the optimal arrangement of specialized glass elements, including molded-glass aspherical and LD/XLD lens elements, to achieve clear and sharp image rendition. eBAND Coating is used to thoroughly correct for ghosting and flare. Thanks to its astounding close-focusing performance, subjects can be captured as close as 0.2m away enabling expression akin to a macro lens. This high-spec fixed focal length lens is equipped with VC image stabilization and a USD ultrasonic motor, sports a front element treated with a fluorine coating that boasts excellent water and oil repelling qualities, and employs a moisture-resistant construction. Tamron has pursued a human touch-oriented design with a metallic exterior that exudes a premium feel.

\* Rated top among current 35mm fixed focal length interchangeable AF lenses for full-frame DSLR cameras excluding macro lenses (As of July 2015. Source: Tamron).



Achieves a class-leading minimum object distance (0.2m)

for DSLR cameras



MODEL F013 Focal length: 45mm Exposure: F/1.8 at 1/500 sec

## Fixed Focal Lens

Di



New MODEL F013

**SP 45mm F/1.8 Di VC USD** for Nikon, Canon

**SP 45mm F/1.8 Di USD** for Sony\*<sup>1</sup> (Sony mount model to be released.)

A 45mm standard lens capable of extremely high resolution and sharp rendering.

Fast F/1.8 aperture and integrated VC image stabilization

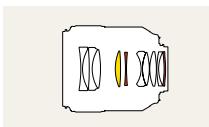
Thanks to an advanced optical design adapting to increasing camera resolutions coupled with the use of specialized glass elements including molded-glass aspherical and LD lens elements, this lens renders clear and tack sharp images. This groundbreaking model marks a world-first\* for the integration of image stabilization into a fast standard prime lens for full-frame DSLR cameras. What's more, features including the fast and quiet USD ultrasonic motor and a moisture-resistant construction have been packed into a body with a high-grade design employing a metal exterior. Achieving a class-leading\*\* minimum object distance of 0.29m, the lens enables unprecedented close-up expression and expands the degree of photographic freedom.

\* As of July 2015. Source: Tamron.

\*\* Rated top among current 45mm and 50mm fixed focal length interchangeable AF lenses for full-frame DSLR cameras excluding macro lenses (As of July 2015. Source: Tamron).



Equipped with VC image stabilization to facilitate hand-held shooting in low-light conditions



Optical Construction : 10 elements in 8 groups  
Filter Size : ø67mm  
Length : 89.2mm (3.5in)  
Weight : 520g (18.3oz)  
Minimum Object Distance : 0.29m (11.4in)

\*1 The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Note: Length is the distance between the mount face and the tip of the lens.  
Optical Construction ■ Hybrid Aspherical Lens ■ LD element ■ XLD (Extra Low Dispersion) glass ■ AD element ■ XR (Extra Refractive Index) glass ■ UXR (Ultra-Extra Refractive Index) glass ■ XGM (eXpanded Glass Molded Aspherical) lens ■ Molded-Glass Aspherical Lens



MODEL F004 Focal length: 90mm Exposure: F/7.1 at 1/200 sec ISO: 100

## Macro Lens

Di



MODEL F004

### SP 90mm F/2.8 Di MACRO 1:1 VC USD for Nikon, Canon SP 90mm F/2.8 Di MACRO 1:1 USD for Sony<sup>\*1</sup>

A macro lens for sharp descriptive power and pleasing blur effects

Tamron's classic 90mm macro lens has been reinvented with VC, USD and a new advanced optical design. With two specialized XLD elements and one LD element, the lens reliably delivers sharp images by fully correcting any aberration. Spectacular blur effects are also produced, while the new eBAND Coating drastically reduces the light reflections that cause flare and ghosting. The result: crisp, clear images. The lens also boasts improved operability enabled by IF (Internal Focusing) system, which focuses without protruding the lens group, together with a full-time manual focus that enables fine focus adjustments.



Depict subjects close up with 1:1 shooting

The maximum magnification of a macro lens is 1:1, meaning the subject is rendered at its actual size on the film or image sensor. This allows one to capture photos of a world with subtle details the naked eye tends to miss.



Optical Construction : 14 elements in 11 groups  
Filter Size : ø58mm  
Length : 114.5mm (4.5in)  
Weight : 550g (19.4oz)  
Minimum Object Distance : 0.3m (11.8in)



MODEL F004 Focal length: 90mm (Equivalent to 140mm) Exposure: F/2.8 at 1/90 sec ISO: 200

## Macro Lens

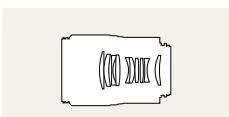
Di



MODEL 272E

### SP AF90mm F/2.8 Di MACRO 1:1 for Nikon, Canon, Sony, Pentax

Tamron's legendary macro lens, renowned for its soft and beautiful blur effects. Thanks to the natural sense of perspective of a medium telephoto, in addition to macro photography the lens is also a superb choice for portraiture.



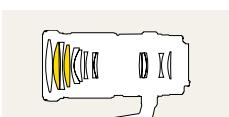
Optical Construction : 10 elements in 9 groups  
Filter Size : ø55mm Length : 97mm (3.8in)  
Weight : 400g (14.1oz)  
Minimum Object Distance : 0.29m (11.4in)



MODEL B01

### SP AF180mm F/3.5 Di LD [IF] MACRO 1:1 for Nikon, Canon, Sony

This high-quality telephoto macro lens truly comes into its own when producing significant background blurring to highlight subjects beautifully, and also performs superbly under shooting conditions with hard-to-approach subjects.



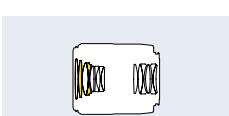
Optical Construction : 14 elements in 11 groups  
Filter Size : ø72mm Length : 165.7mm (6.5in)  
Weight : 985g (34.7oz)  
(Includes the weight of the detachable tripod mount.)  
Minimum Object Distance : 0.47m (18.5in)



MODEL G005

### SP AF60mm F/2 Di II LD [IF] MACRO 1:1 for Nikon, Canon, Sony

A compact, lightweight 60mm (equivalent to 93mm in 35mm format) macro lens for APS-C cameras. Enjoy the full panoply of macro shooting with sharp image quality and soft blur effects made possible with the fast F/2 aperture.



Optical Construction : 14 elements in 10 groups  
Filter Size : ø55mm Length : 80mm (3.1in)  
Weight : 350g (12.3oz)  
Minimum Object Distance : 0.23m (9.1in)



MODEL A007 Focal length: 24mm Exposure: F/16 at 2 sec ISO: 100

## High-Speed Zoom Lens

Di for DSLR cameras Di II for APS-C DSLR cameras

Di



MODEL A007

Di II



MODEL B005

Di II



MODEL A16

Di



MODEL A09

### SP 24-70mm F/2.8 Di VC USD for Nikon, Canon

### SP 24-70mm F/2.8 Di USD for Sony\*

A high-quality, high-performance fast standard zoom lens with VC and USD. This is a full-featured standard zoom lens supporting photographic expressions that transcend conventional limitations in portraits, landscapes, and studio photography.



Optical Construction : 17 elements in 12 groups  
Filter Size : ø62mm Length : 108.5mm (4.3in)  
Weight : 825g (29.1oz)  
Minimum Object Distance : 0.38m (15.0in)  
(Throughout the entire zoom range)

### SP AF17-50mm F/2.8 XR Di II VC LD Aspherical [IF] for Nikon, Canon

Enjoy wielding a high-quality, high-performance fast standard zoom lens with a constant F/2.8 aperture equipped with VC (Vibration Compensation). Unleash your photographic freedom with the ability to easily shoot hand-held, even in low light.



### SP AF17-50mm F/2.8 XR Di II LD Aspherical [IF]

for Nikon, Canon, Sony, Pentax

An extremely compact fast standard zoom lens that combines astounding picture quality with superior versatility and cost effectiveness. Enjoy the beautiful rendering of scenes unique to a constant F/2.8 aperture lens.



Optical Construction : 16 elements in 13 groups  
Filter Size : ø67mm Length : 83.2mm (3.3in)  
Weight : 440g (15.5oz)  
Minimum Object Distance : 0.27m (10.6in)  
(Throughout the entire zoom range)

### SP AF28-75mm F/2.8 XR Di LD Aspherical [IF] MACRO for Nikon, Canon, Sony, Pentax

A fast standard zoom lens delivering high picture quality, balancing a compact form with the exceptional image performance that comes from ensuring uniform light intensity across the entire frame and a constant F/2.8 aperture.



Optical Construction : 16 elements in 14 groups  
Filter Size : ø67mm Length : 92mm (3.6in)  
Weight : 510g (18.0oz)  
Minimum Object Distance : 0.33m (13.0in)  
(Throughout the entire zoom range)



MODEL A012 Focal length: 15mm Exposure: F/2.8 at 5 sec ISO: 1600

## Ultra-Wide-Angle Lens

Di for DSLR cameras Di II for APS-C DSLR cameras

Di



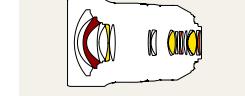
MODEL A012

### SP 15-30mm F/2.8 Di VC USD for Nikon, Canon

### SP 15-30mm F/2.8 Di USD for Sony\*

An F/2.8 ultra-wide-angle zoom lens with built-in VC image stabilization. Pursuing superior rendering performance right to the edges of the image

By adopting an optimum arrangement of specialized glass elements including an XGM (eXpanded Glass Molded Aspherical) element and LD (Low Dispersion) element, various aberrations are corrected to produce excellent rendering performance. Tamron has optimized its proprietary BBAR Coating for this lens and deploys eBAND Coating with a nano-structured layer of ultra-low refractive index. These technologies produce exceptional anti-reflective performance that handles the characteristics of ultra-wide-angle zoom lenses, which easily pick up harmful rays due to their wide angle of view, and thoroughly suppresses ghosting and flare. This lens is also equipped with a fast and quiet USD ultrasonic motor, while the front element is treated with a fluorine coating with excellent water and oil repelling qualities to produce a high-spec zoom lens.



Optical Construction : 18 elements in 13 groups  
Filter Size : N/A Length : 142.5mm (5.6in)  
Weight : 1,100g (38.8oz)  
Minimum Object Distance : 0.28m (11in)  
(Throughout the entire zoom range)

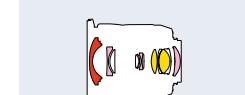
Di II



MODEL B001

### SP AF10-24mm F/3.5-4.5 Di II LD Aspherical [IF] for Nikon, Canon, Sony, Pentax

Featuring a high-precision molded-glass aspherical element and three hybrid aspherical elements, this lens delivers high rendering performance at wide focal lengths of 10-24mm (equivalent to 16-37mm in 35mm format) despite its compact body.



Optical Construction : 12 elements in 9 groups  
Filter Size : ø77mm Length : 86.5mm (3.4in)  
Weight : 406g (14.3oz)  
Minimum Object Distance : 0.24m (9.4in)  
(Throughout the entire zoom range)



MODEL A011 Focal length: 600mm Exposure: F/9 at 1/100 sec ISO: 800

10



MODEL A011 Focal length: 250mm Exposure: F/8 at 1/1600 sec ISO: 3200

## Ultra-Telephoto Zoom Lens

Di



MODEL A011

**SP 150-600mm F/5-6.3 Di VC USD** for Nikon, Canon  
**SP 150-600mm F/5-6.3 Di USD** for Sony\*1

An ultra-telephoto zoom lens to capture dynamic energy with sharpness equipped with VC and USD

This ultra-telephoto zoom lens boasts wide coverage from 150mm to 600mm. Three LD elements thoroughly correct for chromatic aberrations, while the effective fusion of the new eBAND Coating and the conventional BBAR Coating drastically reduces light reflections that cause flaring and ghosting, producing picture quality that is at the top of its class. With a full-time manual focusing mechanism, even when shooting in autofocus mode, you can use manual focus to make fine focus adjustments, facilitating precise focusing even while shooting at the telephoto end where depth of field inevitably becomes shallower. The tripod mount also boasts greater stability, sturdiness and operability, as well as vastly improved portability. A moisture-resistant construction rounds out this superb lens.

Sturdy, easy-to-use tripod mount



Optical Construction : 20 elements in 13 groups  
 Filter Size : ø95mm  
 Length : 257.8mm (10.1in)  
 Weight : 1,951g (68.8oz)  
 (Includes the weight of the detachable tripod mount.)  
 Minimum Object Distance : 2.7m (106.3in)  
 (Throughout the entire zoom range)

\*1 The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Note: Length is the distance between the mount face and the tip of the lens.  
 Optical Construction

Fixed Focal Lens

Macro Lens

High-Speed Zoom Lens

Ultra-Wide-Angle Zoom Lens

Ultra-Telephoto Zoom Lens

Telephoto Zoom Lens

All-in-One Zoom Lens

11



MODEL A009 Focal length: 105mm Exposure: F/13 at 1/125 sec ISO: 200

## Telephoto Zoom Lens

Di



MODEL A009

Di



MODEL A001

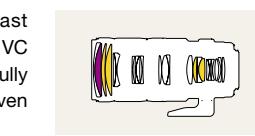
### SP 70-200mm F/2.8 Di VC USD for Nikon, Canon SP 70-200mm F/2.8 Di USD for Sony<sup>\*1</sup>

A wide-aperture telephoto zoom lens packed into a body that is the smallest<sup>\*2</sup> in its class

Pursuing the ultimate in quality. This high image-quality, high-performance fast telephoto zoom lens sports a constant F/2.8 aperture and comes equipped with VC and USD. Specialized glass elements including XLD and LD elements are used to fully correct for chromatic aberrations while the advanced optical design achieves even better contrast and excellent resolving performance.

\*2 Among fast telephoto zoom lenses for full-frame SLR cameras equipped with VC image stabilization and USD. Current as of October 2012 (Source: Tamron)

EISA Best Product 2006-2007  
Tamron SP AF 70-200mm F/2.8 Di USD



Optical Construction : 23 elements in 17 groups  
Filter Size : ø77mm Length : 188.3mm (7.4in)  
Weight : 1,470g (51.9oz)  
(Includes the weight of the detachable tripod mount.)  
Minimum Object Distance : 1.3m (51.2in)  
(Throughout the entire zoom range)

Di for DSLR cameras



MODEL A005 Focal length: 300mm Exposure: F/8 at 1/640 sec ISO: 200

## Telephoto Zoom Lens

Di



MODEL A005

Di



MODEL A17

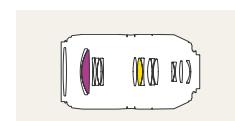
### SP 70-300mm F/4-5.6 Di VC USD for Nikon, Canon SP 70-300mm F/4-5.6 Di USD for Sony<sup>\*1</sup>

A high image-quality, high-performance telephoto zoom lens equipped with VC and USD

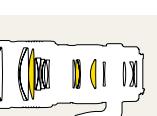
High-grade specialized XLD elements and the latest optical design ensure sharp, high-contrast rendering performance. Enjoy shooting at telephoto end or capturing fast-moving subjects. The inclusion of VC provides stability when shooting at the telephoto range, which is susceptible to blurring due to camera shake, and offers more freedom for hand-held shooting under low light conditions, such as evening and night scenes.

VC USD SP LD XLD [IF]

EISA Best Product 2010-2011 ZOOM LENS  
TIPA AWARDS 2011



Optical Construction : 17 elements in 12 groups  
Filter Size : ø62mm Length : 142.7mm (5.6in)  
Weight : 765g (27.0oz)  
Minimum Object Distance : 1.5m (59.0in)  
(Throughout the entire zoom range)



Optical Construction : 18 elements in 13 groups  
Filter Size : ø77mm Length : 194.3mm (7.6in)  
Weight : 1,320g (46.6oz)  
(Includes the weight of the detachable tripod mount.)  
Minimum Object Distance : 0.95m (37.4in)  
(Throughout the entire zoom range)

Di for DSLR cameras

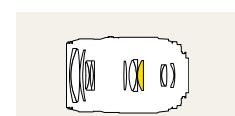
### AF70-300mm F/4-5.6 Di LD MACRO

for Nikon, Canon, Sony, Pentax

A telephoto zoom lens offering high picture quality plus strong macro performance

With its compact, lightweight design, this telephoto zoom lens offers exceptional mobility, while giving you impressive 300mm telephoto (465mm equivalent with APS-C DSLRs) images and full-fledged macro shooting with a maximum magnification of 1:2. Toggle on the macro switch at a zoom telephoto range of between 180mm and 300mm, and you can approach your subject down to a minimum object distance of 0.95m.

LD



Optical Construction : 13 elements in 9 groups  
Filter Size : ø62mm Length : 116.5mm (4.6in)  
Weight : 458g (16.2oz)  
Minimum Object Distance : 1.5m (59.0in)  
(0.95m macro)



MODEL B016 Focal length: 16mm (Equivalent to 25mm) Exposure: F/16 at 25 sec ISO: 100

14



MODEL A010 Focal length: 28mm Exposure: F/13 at 1/250 sec ISO: 320

## All-in-One Zoom Lens

Di II

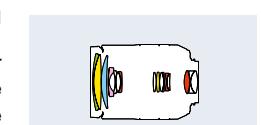


MODEL B016

**16-300mm F/3.5-6.3 Di II VC PZD MACRO** for Nikon, Canon  
**16-300mm F/3.5-6.3 Di II PZD MACRO** for Sony\*

An amazing 18.8x zoom covering 16mm to 300mm.  
Equipped with VC image stabilization and comfortable PZD autofocus.

Introducing the ultimate all-in-one zoom lens from Tamron, the pioneer of high-power zooms with a track record of developing revolutionary lenses. The lens covers a wide focal range from 16mm at the wide end to 300mm at the super-telephoto end while maintaining a compact body size. The minimum object distance of 0.39m also makes it ideal for macro photography.



Optical Construction : 16 elements in 12 groups  
Filter Size : 67mm  
Length : 99.5mm (3.9in)  
Weight : 540g (19.0oz)  
Minimum Object Distance : 0.39m (15.3in)  
(Throughout the entire zoom range)

Di

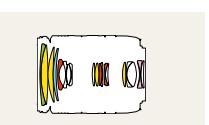


MODEL A010

**28-300mm F/3.5-6.3 Di VC PZD** for Nikon, Canon  
**28-300mm F/3.5-6.3 Di PZD** for Sony\*

A high-power zoom lens for full-frame DSLR with enhanced image quality, compactness and lightweight features.

With the use of specialized glass elements including molded-glass aspherical lenses, high rendering performance has been achieved while reducing lens size. VC image stabilization corrects for camera shake that tends to occur under low-light conditions and at the telephoto end, enabling comfortable hand-held shooting.



Optical Construction : 19 elements in 15 groups  
Filter Size : 67mm  
Length : 96mm (3.8in)  
Weight : 540g (19.0oz)  
Minimum Object Distance : 0.49m (19.3in)  
(Throughout the entire zoom range)

Fixed Focal Lens

Macro Lens

High-Speed Zoom Lens

Ultra-Wide-Angle Zoom Lens

Ultra-Telephoto Zoom Lens

Telephoto Zoom Lens

All-in-One Zoom Lens

15

\*1 The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Note: Length is the distance between the mount face and the tip of the lens.  
Optical Construction



MODEL B018 Focal length: 18mm (Equivalent to 28mm) Exposure: F/6.3 at 1/640 sec ISO: 100

## All-in-One Zoom Lens

Di II for APS-C DSLR cameras

New

### 18-200mm F/3.5-6.3 Di II VC for Nikon, Canon

### 18-200mm F/3.5-6.3 Di II for Sony\*



MODEL B018

### 18-200mm F/3.5-6.3 Di II VC PZD for Nikon, Canon

### 18-270mm F/3.5-6.3 Di II PZD for Sony\*



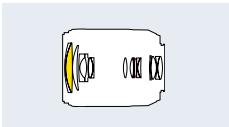
MODEL B008

### AF18-200mm F/3.5-6.3 XR Di II LD Aspherical [IF] MACRO for Nikon, Canon, Sony, Pentax

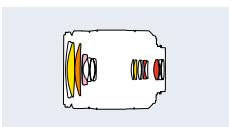
### AF18-200mm F/3.5-6.3 XR Di II LD Aspherical [IF] MACRO for Sony, Pentax



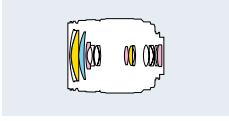
MODEL A14



Optical Construction : 16 elements in 14 groups  
Filter Size : ø62mm Length : 94.1mm (3.7in)  
Weight : 400g (14.1oz)  
Minimum Object Distance : 0.49m - 0.77m (19.3in - 30.3in)



Optical Construction : 16 elements in 13 groups  
Filter Size : ø62mm Length : 88mm (3.5in)  
Weight : 450g (15.9oz)  
Minimum Object Distance : 0.49m (19.3in) (Throughout the entire zoom range)



Optical Construction : 15 elements in 13 groups  
Filter Size : ø62mm Length : 83.7mm (3.3in)  
Weight : 405g (14.3oz)  
Minimum Object Distance : 0.45m (17.7in) (Throughout the entire zoom range)



MODEL C001 Focal length: 17mm (Equivalent to 34mm) Exposure: F/5.6 at 1/200 sec ISO: 200

## All-in-One Zoom Lens

Di III for mirrorless interchangeable-lens cameras

### 14-150mm F/3.5-5.8 Di III

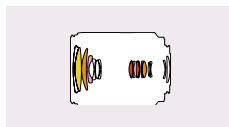
for Micro Four Thirds System



MODEL C001



MODEL B011



Optical Construction : 17 elements in 13 groups  
Filter Size : ø52mm Length : 80.4mm (3.2in)  
Weight : 285g (10.1oz)  
Minimum Object Distance : 0.5m (19.7in)  
(Throughout the entire zoom range)



### 18-200mm F/3.5-6.3 Di III VC

for mirrorless interchangeable-lens cameras (APS-C format) : Canon, Sony

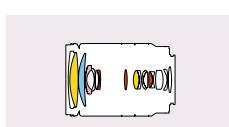
A high power zoom lens for mirrorless interchangeable-lens cameras produces images of superb quality in a compact and lightweight body

A high power zoom lens with superior image quality covering 18-200mm (equivalent to 28-310mm in 35mm format) incorporates VC (Vibration Compensation) and a low-noise stepping motor for autofocus mechanism. Enjoy a more comfortable video shooting experience, with expanded shooting options.

\* This lens cannot be used with any digital SLR camera with a built-in mirror box or with any SLR camera for 35mm film.  
\* The Sony version of this model complies with the E-mount specifications. It has been developed after disclosure of the basic specifications of the E-mount from Sony Corporation.



2012 TIPA Best Lens



Optical Construction : 17 elements in 13 groups  
Filter Size : ø62mm Length : 96.7mm (3.8in)  
Weight : 460g (16.2oz)  
Minimum Object Distance : 0.5m (19.7in)  
(Throughout the entire zoom range)

\* The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Note: Length is the distance between the mount face and the tip of the lens.  
Optical Construction ■ Hybrid Aspherical Lens ■ LD element ■ XLD (Extra Low Dispersion) glass ■ AD element ■ XR (Extra Refractive Index) glass ■ UXR (Ultra-Extra Refractive Index) glass ■ XGM (Expanded Glass Molded Aspherical) lens ■ Molded-Glass Aspherical Lens

# Broadening the possibilities of photographic expression with TAMRON LENS TECHNOLOGIES



## Compatibility with cameras:

Di    Di II    Di III

Di (Digital Integrated Design) lenses are designed for full-frame and APS-C format digital SLR cameras and feature an optical design tailored to the characteristics of digital cameras. Di II lenses have an optical design developed specifically for APS-C format digital cameras, while Di III lenses are designed specifically for mirrorless interchangeable-lens cameras. Also note that Tamron's AF lenses are available for the individual AF camera mounts adopted by major camera makers.

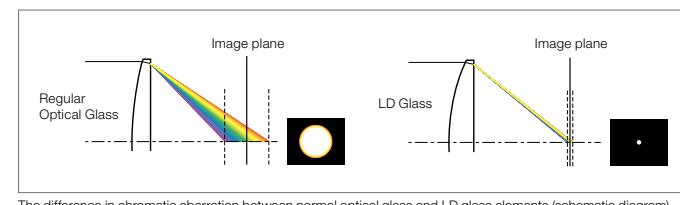
\*Some models are not produced for all mounts. Please check the lens specifications on pages 22-23 for mount availability.

\*Di lenses for Nikon with build-in AF motors do not have aperture rings.

\*Di II lenses do not have lens-side aperture rings.

## LD (Low Dispersion) Glass for Greater Lens Sharpness

LD (Low Dispersion) glass elements in a lens help reduce chromatic aberrations, the tendency of light of different colors to focus at different points on the image plane. Chromatic aberration reduces the sharpness of an image, but glass with an extremely low dispersion index has less of a tendency to separate (diffract) a ray of light into a rainbow of colors. This characteristic allows the lens designer to effectively compensate for chromatic aberration at the center of the field (on axis), a particular problem at long focal lengths (the telephoto end of the zoom range), and for lateral chromatic aberration (toward the edges of the field) that often occurs at short focal lengths (the wide-angle end of the zoom range).



## XLD (Extra Low Dispersion) Lens

XLD (Extra Low Dispersion) lens elements made from specialized ultra-high-grade glass allow Tamron lens designers to achieve much greater control over chromatic aberration (color fringing) and magnification aberrations, the two major factors that inhibit image quality enhancement. In combination with LD elements, XLD elements are used to achieve sophisticated lenses that deliver the highest possible contrast, the finest detail, and superior imaging performance throughout the entire zoom range.

## Super Performance for Discriminating Shooters

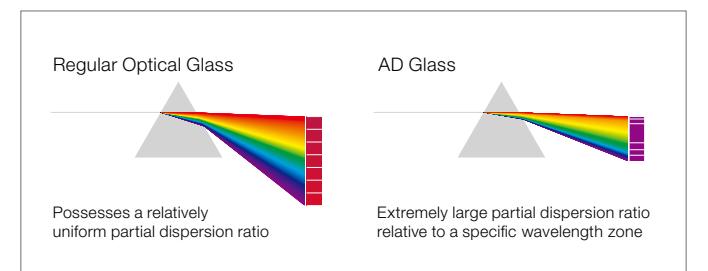


The Tamron SP (Super Performance) series is a line of ultra-high-performance lenses designed and manufactured to the exacting specifications demanded by professionals and others who require the highest possible image quality. In creating SP lenses, Tamron's optical designers put their foremost priority on achieving superior performance parameters—they are all designed to a higher standard with little regard for cost constraints. As a result, Tamron lenses bearing the SP designation feature impressive and innovative designs that have established an enviable reputation for excellence among those knowledgeable photographers that demand the very best.

## AD (Anomalous Dispersion) for Better Color Correction



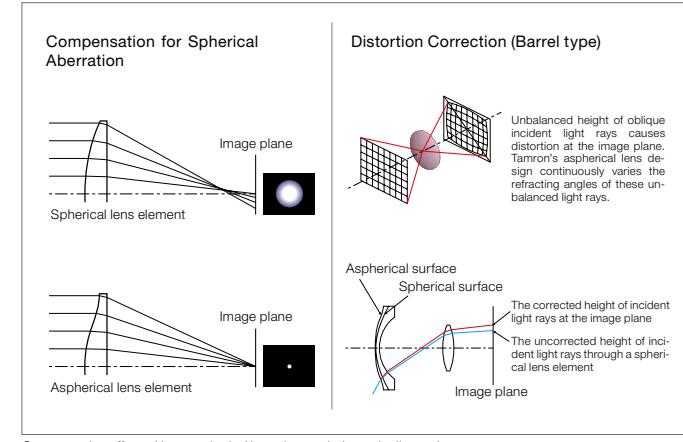
AD (Anomalous Dispersion) glass is a special type of optical glass that is used to achieve more precise control of chromatic aberrations, thereby enhancing overall imaging performance. Glass of this type provides an abnormally large partial dispersion ratio (amount of diffraction) for light of specific wavelength ranges (colors) within the visible spectrum. By combining AD glass having these special characteristics with elements made of normal glass having different dispersion characteristics, it is possible to control the dispersion factors of a specific wavelength. This enhanced level of control results in much lower levels of on-axis (central) chromatic aberration for telephoto lenses (or zooms used at telephoto settings) and a significant reduction of lateral (peripheral) chromatic aberration for wide-angle lenses (or zooms used at wide-angle settings).



## Hybrid Aspherical Elements Provide the Ultimate in Image Quality and Compactness



Tamron uses several Hybrid Aspherical lens elements in the 17-50mm VC, 16-300mm VC PZD, 18-270mm VC PZD, 24-70mm VC USD, 28-300mm VC PZD and other lenses bearing the Aspherical designation. These innovative optics allow us to achieve the ultimate in image quality, and at the same time produce lenses that offer remarkable zoom ranges in extraordinarily compact packages. By perfecting these cutting-edge advances for series production, Tamron has advanced the state of optical design, and virtually eliminated spherical aberration and image distortion from the high-power-zoom series. Through the effective application of Hybrid Aspherical Technology, one lens element can take the place of multiple elements without compromising performance. This is what allows us to produce remarkably compact long-range lenses that deliver a uniformly high level of image quality at all focal lengths and apertures.



Compensation effect with an aspherical lens element (schematic diagram)

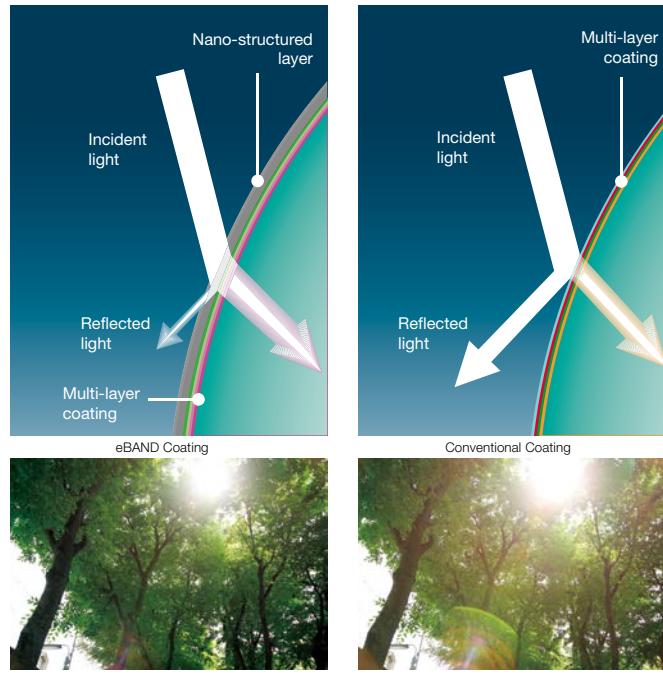
## New eBAND (Extended Bandwidth & Angular-Dependency) Coating



This new coating technique developed by Tamron deploys a nano-structured layer ( $1\text{nm} = 1/1,000,000\text{mm}$ ) of ultra-low refractive index, with dimensions smaller than the wavelengths of visible rays of light. This nano-structured layer coupled with the sophisticated multiple layer coatings underneath, yields significant anti-reflection properties, efficiently reducing undesired flare and ghosting to an absolute minimum to deliver sharp, crisp images.

\*Lenses employing eBAND coating display the above "eBAND Coating" mark on their respective product pages.

Schematic Diagram



Lenses with eBAND Coating offer dramatically improved control over flare and ghosting even in extremely poor light conditions.

## Advanced BBAR Lens Coating Technology: The Key to Attaining the Highest Image Quality

Tamron uses advanced multi-coating techniques to suppress reflections and light dispersion on lens element surfaces that result in reduced light transmission and may, under adverse conditions, cause flare and ghost images that reduce contrast and can diminish image quality. The BBAR (Broad-Band Anti-Reflection) multiple-layer coating technique also helps to provide the best possible color balance for vibrant and accurate color rendition. Tamron has developed an improved proprietary version of BBAR multi-coating that successfully increases light transmission in both longer and shorter wavelengths.

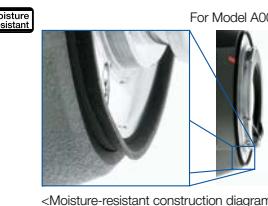


## Moisture-resistant Construction



A moisture-resistant construction helps prevent moisture from penetrating the lens.

\*Lenses employing a moisture-resistant construction display the "Moisture Resistant" mark on their respective product pages.



<Moisture-resistant construction diagram>

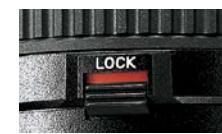
## TAMRON LENS TECHNOLOGIES

### IF (Internal Focusing) System

IF (Internal Focusing) provides numerous practical benefits to photographers including a non-rotating front filter ring that facilitates the positioning of polarizing and graduated filters, and more predictable handling because the lens length does not change during focusing. Even more important, Tamron's IF system provides a much closer Minimum Object Distance (MOD) throughout its entire focusing range. In addition, IF improves optical performance by minimizing illumination loss at the corners of the image field (vignetting), and helps to suppress other aberrations that become more troublesome at different focusing positions.

### ZL (Zoom Lock) Feature

Another original Tamron mechanical engineering concept is ZL (Zoom Lock), a simple convenience feature that prevents undesired extension (creep) of the lens barrel when carrying the camera/lens unit on a neck strap. This enhances responsiveness in the field and helps protect the lens.



### Multiple-Cam Mechanism for Smooth, Stable Zooming and Precise Focusing at All Focal Lengths

The manufacture of compact, high-quality, high-power zoom lenses became a reality only when Tamron perfected a lens chassis that permitted stable and smooth extension of the lens barrel. The "Multiple-Cam Zoom Mechanism" is an original Tamron design that incorporates several precision cams cut into a single cylindrical surface using high-tech automated machinery. This key component enables zoom lens barrels to be extended and retracted effortlessly, achieving commendably compact dimensions at the wide-angle settings, while holding precise extension at telephoto settings.

### Integrated Focus Cam Design for Optimizing Internal Focusing

Tamron's Integrated Focus Cam is a precision mechanical component that optimizes the coordinated movement of the Internal Focusing (IF) system with the Multiple-Cam Zoom Mechanism. This ingenious Focus Cam is designed to ensure seamless and precise positioning of all the highly sophisticated internal elements within the lens and coordinate them with the convenient external zoom and focus controls that comprise the user interface.

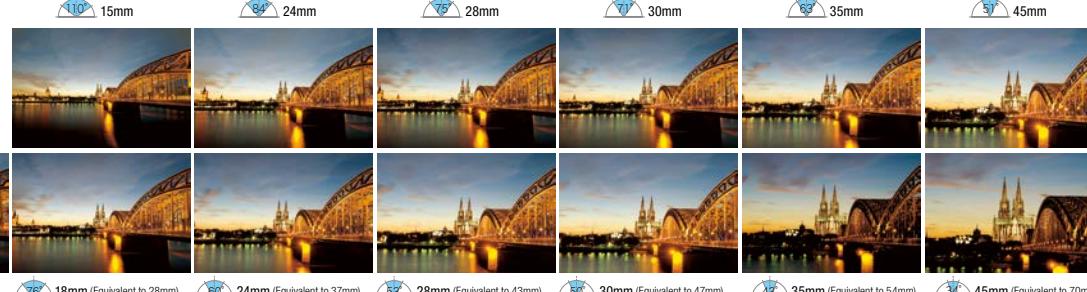
### Engineering Plastics Technology

To insure the highest levels of performance and durability without adding additional weight, Tamron High-Power Zoom Lenses make extensive use of engineering plastic materials in many critical mechanical components of the lens. Tamron has developed advanced proprietary methods for manufacturing these advanced polycarbonate materials to a very high degree of precision, and repeated tests have confirmed their long-lasting properties and dimensional stability under the toughest conditions. Indeed, polycarbonate of this caliber is the material of choice whenever we produce high-precision components that require the strength to withstand rigorous use.

### Different Angles of View

#### with Different Focal Lengths

Taken with a full-frame camera 



Taken with an APS-C size digital camera   
\*Tamron's conversion value is 1.55x

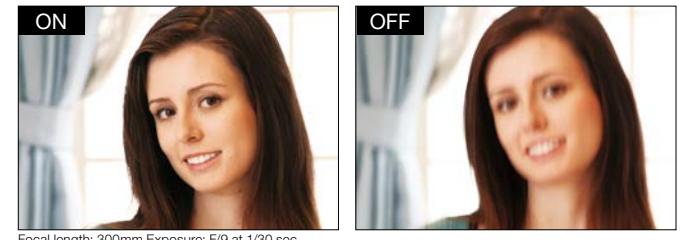


### Introducing "VC" — Tamron's Unique Vibration Compensation Mechanism

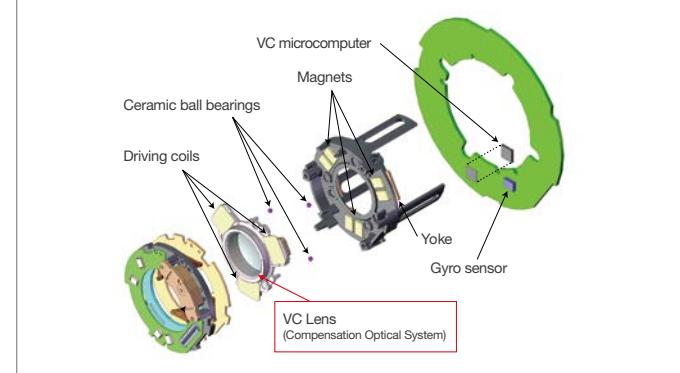
Tamron's unique VC (Vibration Compensation) mechanism uses a proprietary actuator and algorithms to deliver an extremely stable viewfinder image with excellent tracking. The mechanism uses a three-coil system to electromagnetically drive the lens element that compensates for vibration, which glides smoothly on three balls with little friction. This simple mechanical structure is one of the secrets to Tamron's compact lenses.

\*Lenses equipped with VC incorporate "VC" in their product names.

Taken under the same conditions using a vibrating table



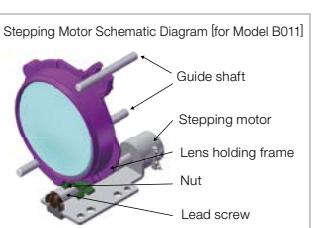
Focal length: 300mm Exposure: F/9 at 1/30 sec



### Stepping Motor

The stepping motor's actuator allows finely tuned control of angular rotation, and since it drives the focusing mechanism directly without an intermediate reduction gear, it also provides superbly quiet performance.

\*A stepping motor is loaded on the B011 (18-200mm VC), C001 (14-150mm).

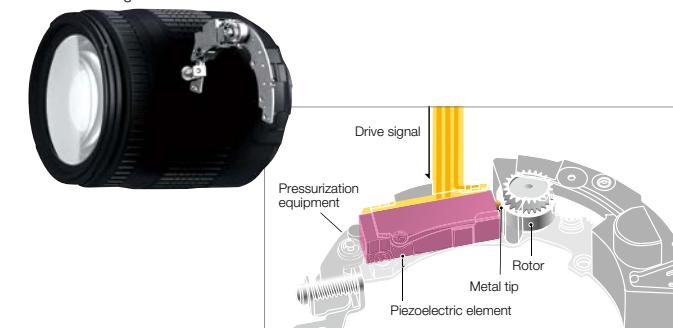


### PZD (Piezo Drive)

An exclusive Tamron innovation, PZD (Piezo Drive) is an advanced ultrasonic, AF (autofocus) motor based on the latest piezoelectric technology—the standing wave principle. It utilizes high-frequency voltage to turn a ceramic piezoelectric element with a swiveling motion, causing the metal tip at the rotor's contact point to rotate elliptically, thereby turning the rotor to focus the lens swiftly, silently, and with great precision. Standing wave ultrasonic motors like the one used in Tamron's innovative PZD have a number of advantages. They're smaller and lighter and also provide faster and quieter operation than DC motors for improved AF performance. Compared with their predecessors, their actuator system allows far greater flexibility in lens design, reducing the overall size and weight of the lens.

\*Lenses equipped with PZD incorporate "PZD" in their product names.

PZD Unit Diagram



### USD (Ultrasonic Silent Drive)

USD (Ultrasonic Silent Drive) is an ingeniously upgraded autofocus-drive system developed by Tamron to deliver the extraordinary auto-focusing speed and precision needed to capture every nuance of high-speed sports action, along with virtually noiseless operation as required for discreet picture taking. Based on advanced motor technology and newly developed software, it employs a piezoelectric ceramic element to generate two high-frequency ultrasonic vibrations on the motor's stator ring. This in turn causes the adjacent metallic rotor to rotate by means of deflective traveling waves when voltage of a specific frequency is applied. This advanced electronically controlled autofocus system is linked to a precision focusing helical that moves the lens to the precise focus point. The result: A remarkable new level of AF speed, accuracy, smoothness, and silence.

\*Lenses equipped with USD incorporate "USD" in their product names.



### Sophisticated Tamron Production Technology

Tamron manufacturing processes are certified according to ISO 9001 standards, an internationally recognized indicator of the most thorough quality control. Tamron's high-power zoom lenses come out of a factory that is well known for delivering on its world-class capabilities, and is widely respected for its unwavering policy of delivering excellent quality products that meet the total satisfaction of its valued customers.

### Tamron's Quality Assurance and Environmental Protection Activities

#### ISO Standards

ISO stands for the International Organization for Standardization. These international standards include the ISO 9000 family of standards relating to quality system management, and the ISO 14000 series for certification of environmental management systems. Certification regarding the environment and quality control is also being applied to all of Tamron.

#### Environment

Tamron has been actively addressing concerns about the earth's environment through efforts to reduce the environmental footprint of its business operations based on ISO 14001. Specifically, Tamron has promoted the "Green Procurement" policy for abrogating harmful substances from the beginning and reinforcing positive environmental programs. At Tamron, we have addressed such issues as energy savings and waste reduction and recycling for reducing environmental loads generated from the manufacture of products. Such activities promote the development of high quality, compact and environmentally friendly products to satisfy customers. Since 2004, Tamron has also issued Environmental Reports to introduce its socially responsible philosophy and practices for environmental preservation. For further details, please visit Tamron's website at <http://www.tamron.co.jp/en/envi/top/index.html>

#### ISO 9001 Quality Control Policy

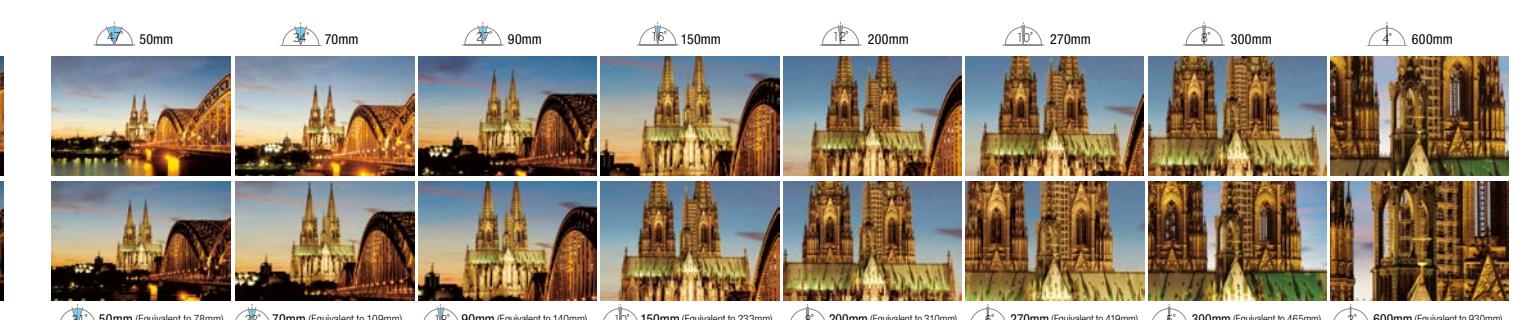
Provide customer satisfaction by delivering high quality products.

#### ISO 14001 Environmental Management Philosophy

In accordance with its corporate management philosophy, Tamron's goal is to create and deliver superior quality products and services to meet customer needs. Furthermore, each Tamron employee is fully committed to the preservation of the global environment at every level and for each facet of company activities. At Tamron, we recognize the significance of our social responsibilities.

#### ISO 14001 The Fundamentals of the Environmental Conservation Policy

1. Compliance with legislation relevant to environmental conservation
2. Conservation and protection of natural resources
3. Prevention of environmental contamination
4. Continued promotion of an environmental conservation program
5. Promote design philosophy and development of environmentally friendly products to contribute to environmental protection
6. Promote environmental education
7. Disclosure of environmental-related information to the public



# Lens Specifications

LENS	MODEL	FOCAL LENGTH (mm)	MAXIMUM APERTURE (F)	OPTICAL CONSTRUCTION (Groups/ Elements)	ANGLE OF VIEW			TYPE OF ZOOMING	APERTURE BLADES	MINIMUM APERTURE (F)	MINIMUM OBJECT DISTANCE / m (in.)	MAX. MAG. RATIO	FILTER SIZE (mm)	WEIGHT g (oz.)	MAX. DIAMETER x LENGTH mm (in.)	ACCESSORY			MOUNT				REMARKS
					Diagonal	Horizontal	Vertical									Lens Hood	Case	Detachable Tripod Mount	For Nikon	For Canon	For Sony	For Pentax	
<b>Di for DSLR cameras</b>																							
SP 15-30mm F/2.8 Di VC USD *1	A012	15-30	F/2.8	13-18	110°32'-71°35' (85°52'-49°54')	100°23'-61°56' (75°30'-42°19')	77°19'-43°36' (64°36'-28°56')	ROTATION	9 *2 (circular diaphragm)	22	0.28 (11.0) Throughout the entire zoom range	1:5	N/A	1,100 (38.8)	ø98.4x142.5 (5.6)	◎			○	○	○ *1		
SP 24-70mm F/2.8 Di VC USD *1	A007	24-70	F/2.8	12-17	84°04'-34°21' (60°20'-22°33')	73°44'-28°51' (51°36'-18°49')	53°05'-19°16' (35°29'-12°22')	ROTATION	9 *2 (circular diaphragm)	22	0.38 (15.0) Throughout the entire zoom range	1:5	82	825 (29.1)	ø88.2x108.5 (4.3)	◎ HA007			○	○	○ *1		
SP AF28-75mm F/2.8 XR Di LD Aspherical [IF] MACRO	A09	28-75	F/2.8	14-16	75°23'-32°11' (52°58'-21°4)	65°28'-26°59' (45°0'-17°36')	46°15'-18°7' (30°34'-11°29')	ROTATION	7	32	0.33 (13.0) Throughout the entire zoom range	1:3.9	67	510 (18.0)	ø73x92 (3.6)	◎ DA09			○	○	○	○	
28-300mm F/3.5-6.3 Di VC PZD *1	A010	28-300	F/3.5-6.3	15-19	75°23'-8°15' (52°58'-5°20')	65°28'-6°52' (45°0'-4°26')	46°15'-4°21' (30°34'-2°35')	ROTATION	7 *2 (circular diaphragm)	22-40	0.49 (19.3) Throughout the entire zoom range	1:3.5	67	540 (19.0)	ø74.4x96 (3.8)	◎ HA010			○	○	○ *1		
SP 70-200mm F/2.8 Di VC USD *1	A009	70-200	F/2.8	17-23	34°21'-12°21' (22°33'-7°59')	28°51'-10°17' (18°49'-6°38')	19°16'-6°31' (12°22'-4°15')	ROTATION	9 *2 (circular diaphragm)	32	1.3 (51.2) Throughout the entire zoom range	1:8	77	1,470 (51.9) ♦	ø85.8x188.3 (7.4)	◎ HA001			○	○	○	○ *1	
SP AF70-200mm F/2.8 Di LD [IF] MACRO	A001	70-200	F/2.8	13-18	34°21'-12°21' (22°33'-7°59')	28°51'-10°17' (18°49'-6°38')	19°16'-6°31' (12°22'-4°15')	ROTATION	9	32	0.95 (37.4) Throughout the entire zoom range	1:3.1	77	1,320 (46.6) ♦	ø89.5x194.3 (7.6)	◎ HA001	○	○	○	○	○	○	Pentax mount does not have an aperture ring.
SP 70-300mm F/4-5.6 Di VC USD *1	A005	70-300	F/4-5.6	12-17	34°21'-8°15' (22°33'-5°20')	28°51'-6°52' (18°49'-4°26')	19°16'-4°21' (12°22'-2°35')	ROTATION	9	32-45	1.5 (59.0) Throughout the entire zoom range	1:4	62	765 (27.0)	ø81.5x142.7 (5.6)	◎ HA005			○	○	○	○ *1	
AF70-300mm F/4-5.6 Di LD MACRO	A17	70-300	F/4-5.6	9-13	34°21'-8°15' (22°33'-5°20')	28°51'-6°52' (18°49'-4°26')	19°16'-4°21' (12°22'-2°35')	ROTATION	9	32-45	1.5 (59.0) 0.95 (37.4) Macro	1:2	62	458 (16.2)	ø76.6x116.5 (4.6)	◎ DA17			○	○	○	○	
SP 150-600mm F/5-6.3 Di VC USD *1	A011	150-600	F/5-6.3	13-20	16°25'-4°8' (10°38'-2°40')	13°41'-3°26' (8°51'-2°13')	9°6'-2°10' (5°33'-1°18')	ROTATION	9 *2 (circular diaphragm)	32-40	2.7 (106.3) Throughout the entire zoom range	1:5	95	1,951 (68.8) ♦	ø105.6x257.8 (10.1)	◎ HA011			○	○	○	○ *1	Extra options sold separately - Long-type tripod mount ring - Lens case A011
SP 35mm F/1.8 Di VC USD *1 <span style="color:red;">New</span>	F012	35	F/1.8	9-10	63°26' (43°29')	54°26' (36°43')	37°51' (24°57')	-	9 *2 (circular diaphragm)	16	0.2 (7.9)	1:2.5	67	450 (15.9)	ø80.4x78.3 (3.1)	◎ HF012			○	○	○	○ *1	Sony mount model to be released.
SP 45mm F/1.8 Di VC USD *1 <span style="color:red;">New</span>	F013	45	F/1.8	8-10	51°21' (34°28')	43°36' (28°56')	29°52' (19°31')	-	9 *2 (circular diaphragm)	16	0.29 (11.4)	1:3.4	67	520 (18.3)	ø80.4x89.2 (3.5)	◎ HF012			○	○	○	○ *1	Sony mount model to be released.
SP 90mm F/2.8 Di MACRO 1:1 VC USD *1	F004	90	F/2.8	11-14	27°2' (17°37')	22°37' (14°41')	15°6' (9°31')	-	9 *2 (circular diaphragm)	32	0.3 (11.8)	1:1	58	550 (19.4)	ø76.4x114.5 (4.5)	◎ HF004			○	○	○	○ *1	
SP AF90mm F/2.8 Di MACRO 1:1	272E	90	F/2.8	9-10	27°2' (17°37')	22°37' (14°41')	15°6' (9°31')	-	9	32	0.29 (11.4)	1:1	55	400 (14.1)	ø71.5x97 (3.8)	◎ 2C9FH	○		○	○	○	○	
SP AF180mm F/3.5 Di LD [IF] MACRO 1:1	B01	180	F/3.5	11-14	13°42' (8°52')	11°25' (7°22')	7°23' (4°34')	-	7	32	0.47 (18.5)	1:1	72	985 (34.7) ♦	ø84.8x165.7 (6.5)	◎ DB01	○	○	○	○	○	○	The SP AF180mm does not incorporate an AF motor.
<b>Di II for APS-C DSLR cameras</b>																							
SP AF10-24mm F/3.5-4.5 Di II LD Aspherical [IF]	B001	10-24	F/3.5-4.5	9-12	108°44'-60°20'	98°28'-51°36'	75°19'-35°29'	ROTATION	7	22-29	0.24 (9.4) Throughout the entire zoom range	1:5.1	77	406 (14.3)	ø63.2x86.5 (3.4)	◎ AB001			○	○	○	○	
16-300mm F/3.5-6.3 Di II VC PZD MACRO *1	B016	16-300	F/3.5-6.3	12-16	82°12'-5°20'	71°57'-4°26'	51°39'-2°57'	ROTATION	7 *2 (circular diaphragm)	22-40	0.39 (15.3) Throughout the entire zoom range	1:2.9	67	540 (19.0)	ø75x99.5 (3.9)	◎ HB016			○	○	○	○ *1	
SP AF17-50mm F/2.8 XR Di II VC LD Aspherical [IF]	B005	17-50	F/2.8	14-19	78°45'-31°11'	68°37'-26°7'	49°01'-17°22'	ROTATION	7	32	0.29 (11.4) Throughout the entire zoom range	1:4.8	72	570 (20.1)	ø79.6x94.5 (3.7)	◎ AB003			○	○			
SP AF17-50mm F/2.8 XR Di II LD Aspherical [IF]	A16	17-50	F/2.8	13-16	78°45'-31°11'	68°37'-26°7'	49°01'-17°22'	ROTATION	7	32	0.27 (10.6) Throughout the entire zoom range	1:4.5	67	440 (15.5)	ø73.8x83.2 (3.3)	◎ DA09			○	○	○	○	
18-200mm F/3.5-6.3 Di II VC *1 <span style="color:red;">New</span>	B018	18-200	F/3.5-6.3	14-16	75°33'-7°59'	65°36'-6°38'	46°21'-4°15'	ROTATION	7 *2 (circular diaphragm)	22-40	0.49-0.77 (19.3-30.3)	1:4	62	400 (14.1)	ø75x94.1 (3.7)	◎ HB018			○	○	○	○ *1	
AF18-200mm F/3.5-6.3 XR Di II LD Aspherical [IF] MACRO	A14	18-200	F/3.5-6.3	13-15	75°33'-7°59'	65°36'-6°38'	46°21'-4°15'	ROTATION	7	22-40	0.45 (17.7) Throughout the entire zoom range	1:3.7	62	405 (14.3)	ø73.8x83.7 (3.3)	◎ AD06			○	○	○	○	
18-270mm F/3.5-6.3 Di II VC PZD *1	B008	18-270	F/3.5-6.3	13-16	75°33'-5°55'	65°36'-4°55'	46°21'-3°10'	ROTATION	7	22-40	0.49 (19.3) Throughout the entire zoom range	1:3.8	62	450 (15.9)	ø74.4x88 (3.5)	◎ DA18			○	○	○	○ *1	
SP AF60mm F/2 Di II LD [IF] MACRO 1:1	G005	60	F/2	10-14	26°11'	21°53'	14°25'	-	7	22	0.23 (9.1)	1:1	55	350 (12.3)	ø73x80 (3.1)	◎ HG005			○	○			

## ■ Lenses for Digital Cameras and Video Cameras

Tamron has earned high marks from the market by providing optical lens units that meet the demands of the latest high-resolution CCDs. Tamron also produces lightweight, compact zoom lenses for video cameras with high performance and superb image quality.

## ■ IP/CCTV Lenses

Utilizing its advanced technologies as an optical products manufacturer, Tamron develops revolutionary surveillance lenses that embody the needs of today's market. Tamron offers an extensive lineup of IP and CCTV lenses including Near IR lenses, lenses compatible with multi-megapixel cameras and motorized zoom lenses.

## ■ Lenses for Long Wavelength Infrared Cameras

By applying its accumulated expertise as an optical products manufacturer, Tamron has developed the world's first lenses equipped with a VC (Vibration Compensation) system for LWIR products. We boast a vast product line-up and will continue to create more high-added value lenses in the future.

## ■ Lenses for Automotive Applications

Vehicles around the world are being fitted with cameras that offer a wide variety of image recognition functions to increase driving safety. Tamron will leverage its proprietary high-precision optics technologies and leading-edge lens production technologies to become a leading manufacturer of lenses for vehicle-mounted cameras.

## ■ Optical Devices

Tamron develops a broad range of high-precision lens components such as various aspherical lenses, specialized prisms, devices for lasers, dichroic mirrors for color separation, polarized beam splitters, special multi-layered thin film-coating products and test plates for quickly and precisely inspecting the precise specifications of lens surfaces.



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

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\* Information valid as of October 2015. Information in this publication may be subject to change at any time.

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### Management on Quality and Environment

Tamron is certified with international standards: ISO 9001 for quality and ISO14001 for environmental management at its headquarters, domestic sales offices, China plant as well as three production facilities in Aomori, Japan, and is fully committed to striving for continued and sustainable improvement at all levels and facets of its business operations.