Photographic Lenses
Using its proprietary technologies, Tamron develops a wide selection of one-of-a-kind interchangeable lenses.
Tamron’s most notable achievement to date is a series of All-in-One Zoom lenses which cover from a wide-angle to telephoto and SP (Super Performance) series lenses. These series have earned prestigious awards, as well as high praise from countless photographers.

IP/CCTV Lenses
Tamron has continually developed surveillance camera lenses to meet market needs, including the development of industry-leading vari-focal lenses. Tamron maintains an extensive lineup of IP/CCTV lenses catering to various surveillance environments including IR lenses and mega-pixel lenses. We also offer a series of fixed-focal lenses for image processing applications for FA and Machine Vision.

Lenses for Long Wavelength Infrared Cameras
Tamron applies the expertise it has acquired as a comprehensive optical manufacturer to the field of Long Wavelength Infrared lenses (LWIR lenses). We have developed a lineup of LWIR lenses compatible with various environments and equipment, including lenses equipped with optical Vibration Compensation (VC) mechanisms, large aperture lenses and compact lenses.

Camera Module
Utilizing an experienced know-how as a comprehensive optical manufacturer and proprietary optical technology based on versatile lenses development, we develop a unique camera module. Miniature-size and light weight construction incorporating an optical Vibration Compensation (VC) feature is suitable for various applications.

Lenses for Digital Cameras and Video Cameras
Tamron has earned an excellent reputation for its use of leading-edge technologies to supply the market with optical lens units that support image sensors with ever-increasing resolutions. Tamron also produces video camera zoom lenses boasting high performance and excellent image quality in a light weight, compact form factor.

Lenses for Automotive Applications
Automobiles are equipped with cameras that offer an array of image processing features to ensure safety while driving, such as the monitoring of surroundings, passenger detection and white line recognition. Tamron leverages its accumulated precision optical technologies, cutting-edge lens manufacturing techniques and stable supply system to provide lenses for vehicle-mounted cameras.

Optical Devices
Tamron has developed a range of high-precision lens components and test plates that quickly and precisely inspect the surface accuracy of lens.

High-precision Injection Mold of Engineering Plastic
Tamron is committed to meeting diversifying market needs and developing and manufacturing outstanding products. The company owns facilities and equipment for the design and production of plastic mold, where it manufactures a range of precision equipment and optical-equipment parts.

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*Information valid as of December 2017. Information in this publication may be subject to change at any time.
SUPER PERFORMANCE - STRIVE FOR EXCELLENCE

The lenses in our new SP Series unlock the full potential of high-resolution cameras for photographers. Advanced technologies such as VC image stabilization, fast USD auto-focus and high-grade lens compensation ensure excellent imaging performance from every aperture settings. Using state of the art imaging technology, our SP technology is becoming the “creative eye” of photographers of all levels of experience.
Di-III Technology

The Tamron Di-III technology is designed for full-frame and APS-C format digital SLR cameras and features an optical design targeted to the characteristics of digital cameras. Di-III lenses have an optical design developed specifically for APS-C format digital cameras, while Di-II 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.

Compatibility with cameras: 

- Di-II lenses do not have lens-side aperture rings.
- Di lenses for Nikon with build-in AF motors do not have aperture rings.
- Some models are not produced for all mounts. Please check the lens specifications on pages 30-31 for mount availability.
- 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 these knowledgeable photographers that demand the very best.

LB (Low Dispersion) Glass for Greater Lens Sharpness

LB (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 (towards the edges of the field that often occurs at short focal lengths (the wide-angle end of the zoom range).

Super Performance for Discriminating Shooters

The Tamron Di-III 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 these 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 a specific wavelength range (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 errors (central chromatic aberration for telephoto lenses, or zooms used at wide-angle settings) and a significant reduction of lateral (peripheral) chromatic aberration for wide-angle lenses (or zooms used at wide-angle settings).

XLD (xExtra Low Dispersion) Lens

XLD (xExtra Low Dispersion) lens elements are made from specialized ultra-high-grade glass that allow Tamron lens designers to achieve much greater control over chromatic aberration (color fringeing) 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.

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 range in extremely 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, the lens elements can take on 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.

New eBAND (Extended Bandwidth & Angular-Dependency) Coating

This new coating technique developed by Tamron employs a nano-structured layer (1nm = 1,000,000th of a millimeter) of ultra-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.

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.

XGM (xExpanded Glass Molded Aspherical) Lens

The XGM (xExpanded Glass Molded Aspherical) lens element is capable of efficiently correcting aberrations in the angle of view that changes significantly with an ultra-wide-angle zoom lens. It has an especially significant impact on minimizing distortion and enhancing the sharpness of the image at the periphery. Furthermore, the moldedglass element can take on the place of multiple elements, allowing the fabrication of a wider range of lens shapes than the composite aspherical lens method. Moreover, XGM also effectively controls aberrations and reduces total lens size.

Legend - Lens construction

- Hybrid aspheric lens
- LD element
- XLD element
- AD element
- XR element
- UXR element
- Aspheric ultra-precision moulded glass
TECHNOLOGY

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 (barrel shading), 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 precisioncams 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 considerably compact dimensions at the wide-angle components within the lens and coordinate them with the convenient external zoom and focus controls that comprise the user interface.

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’s 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.

Introducing “VC” — Tamron’s Unique Vibration Compensation Mechanism

Tamron’s unique VC (Vibration Compensation) mechanism uses a proprietary actuator and algorithm 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 gives smoothness on three balls with little friction. This simple mechanical structure is one of the secrets to Tamron’s compact lenses.

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 for greater flexibility in lens design, reducing the overall size and weight of the lens.

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.

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. For Model A007

Well-protected against splashing water

“Moisture-Resistant” means that the lens is protected against penetration by water. Any sealing won’t stick to the surface - you will be able to wipe it away easily.

Different Angles of View with Different Focal Lengths

With different focal lengths, Tamron’s lenses can capture Scenes 300mm Exposure: F/9 at 1/30 sec

Fluorine Coating

Fluorine Coating was developed for optical systems in industrial production. It provides long-term protection to the front lens against oil and water. Any sealing won’t stick to the surface - you will be able to wipe it away easily.

TAP-in Console™

Individual settings for your Tamron lens

Photographers can use the TAP-in Console to configure Tamron’s new SP Series for their own needs. The accessory lets them update firmware themselves using a computer for the first time, as well as adopting other configurations. Previously, this could only be done on-location at a Tamron Customer Service Centre. Depending on the lens, the individually configurable parameters include: Focus adjustment, setting the focus limit, optimization of the manual focus function and calibration of the VC image stabilizer. The TAP-in Console can be used with all lenses in the new SP Series (F012, F013, F016, F017, A022, A025 and B023). Download the software here: http://www.tamron.co.jp/software/en/tapin/
“As an advertising photographer, who mainly works in the field of sports and action, a fast telephoto zoom is of course one of my standard lenses. The narrow angle of view condenses the depth of the scene and focuses on the essentials. I am also able to zoom in so that the subject is captured as large as possible, even if I have to photograph from a distance.

I first used the new SP 70-200mm F/2.8 Di VC USD G2 in Portugal, where I photographed surfers. Its high build quality and the haptic fascinated me right away. This telephoto zoom feels really good in your hand. It is also protected against splash water and dust, which is great when you’re shooting by the sea. I could simply wipe off splashes of salt water and grains of sand afterwards.

The most important features of the SP 70-200mm G2 are inside the tube. The sharpness is excellent and reminds me of pictures taken with fixed focal lengths. Every detail is captured perfectly when working with professional, high-resolution cameras. A further advantage and ideal for action shooting, when I follow an athlete with the camera is the new panning mode of the VC (Vibration Compensation). The autofocus reacts quickly. The rate of sharp results was enormous, even though the surfer often came out of a wave at the last moment.”
The new SP 70-200mm F/2.8 G2 (Model A025) telephoto zoom lens reimagines the highly acclaimed Model A009 with enhanced optical and technical features.

**High resolution meets beautiful bokeh**

Every aspect of the SP 70-200mm F/2.8 G2 (Model A025) zoom has been improved, providing high image quality and enhanced bokeh throughout.

**Fast auto-focus and flexible VC image stabilizer**

Tamron’s best-in-class1 VC image stabilization performance is equivalent to 5 stops2, according to CIPA standards. Plus, this lens offers a choice of three VC modes, including one exclusively for panning. Now you can match the VC mode to your shooting conditions and enjoy sharp, jitter-free handheld shooting – even in low light conditions.

1 Among 70-200mm F/2.8 interchangeable lenses for full-frame DSLR cameras. (As of May, 2017. Source: Tamron.)

2 Using in VC MODE 3

For Canon: 5D-MKIII is used
For Nikon: D810 is used

The tripod mount is Arca-Swiss compatible and can be removed when required.

Two optional tele converters available (1.4x and 2.0x)

**Extremely Sharp: SP 70-200mm F/2.8 Di VC USD G2**

50-Mpx portrait picture made with the Tamron SP 70-200mm G2
(Focal length: 200mm, F/2.8, 1/200 sec., ISO 125)

Selected image detail of the same picture – Highest optical performance in addition to the newest VC image stabilizer warrants for razor sharp images

With the TAP-in Console™ you can update and customize your Tamron lens for your personal needs

The electromagnetic diaphragm is compatible with Nikon cameras. For more electromagnetic diaphragm-compatible cameras, see page 31.
**SP 150-600mm F/5-6.3 Di VC USD G2**

The new generation of Tamron’s ultra-telephoto zoom lenses. This incredible lens will win you over with its astounding optical performance and slick features.

The ultra-telephoto zoom lens means you are never too far away to get a great close-up of your subject. The second generation of the SP 150-600mm has a first-class optical build and the auto-focus and VC image stabilizer have been improved even further. The front lens is equipped with Fluorine Coating and the entire housing is protected against splashing water and dust.

*The electromagnetic diaphragm is compatible with Nikon cameras. For more electromagnetic diaphragm compatible cameras, see page 21.*

**Focal length comparison: SP 150-600mm F/5-6.3 Di VC USD G2**

- **Optical Construction:** 10 elements in 9 groups
- **Filter Size:** ø67mm
- **Length:** 78.3mm (3.1in)
- **Weight:** 450g (15.9oz)
- **Minimum Object Distance:** 0.2m (7.9in)

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**SP 35mm F/1.8 Di VC USD**

A large-aperture 35mm extremely high-quality prime lens, with built-in VC image stabilization and USD ultrasonic motor. Thanks to the world’s shortest* closest focusing distance in this lens class, at 0.2m, you can take pictures that have the look of macro shots. The lens is properly protected against splashing water and the front lens can be cleaned easily thanks to Fluorine Coating.

1. In comparison with currently available 35mm prime lenses for DSLR with full-format sensors, excluding macro lenses. As of July 2015, source: Tamron.

**SP 45mm F/1.8 Di VC USD**

Advanced optical design and use of special glass elements, including aspherical lenses and LD elements, are what make this excellent lens stand out. It is the first* standard prime lens for full-format DSLRs in the world to be equipped with an image stabilizer, and the first lens of its class* with a Minimum Object Distance of just 0.29m. Lila all models in the SP series, it also has exceptionally high build quality.


3. In comparison with currently available 45mm and 50mm prime lenses for DSLR cameras with full-format sensors. As of July 2015, source: Tamron.

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**Optical Construction:** 21 elements in 13 groups
- **Filter Size:** ø95mm
- **Length:** 257.7mm (10.1in)
- **Weight:** 1,990g (70.2oz)
- **Minimum Object Distance:** 2.2m (86.6in)
SP 85mm F/1.8 Di VC USD
A top-class portrait lens. The perfect combination of high luminosity, a compact form factor and image stabilization.

This large-aperture compact prime lens is ideally suited for demanding portrait shots with natural-looking proportions and colours. It is the first 85mm F/1.8 lens in the world with integrated image stabilization. Its features include an excellent resolution and dreamy bokeh. An XLD and an LD glass element ensure consistently high imaging performance over the entire image area.

The SP 85mm’s large aperture means an optimum balance between sharpness and bokeh, perfectly separating the portrait subject from the background.

Optical Construction: 13 elements in 9 groups
Filter Size: ø67mm
Length: 88.8mm (3.5in)
Weight: 660g (23.3oz)
Minimum Object Distance: 0.8m (31.5in)

SP 90mm F/2.8 Di MACRO 1:1 VC USD
The pioneer of a new generation of macro lenses with extremely high resolution and detail reproduction.

We have used the most advanced technologies to really make this superb SP prime lens stand out. It carries the heritage of Tamron’s legendary series of 90mm macro lenses into the future. The VC image stabilization is supported by XY-Shift compensation, which dramatically widens the range of applications. The housing is also protected against damp and dust, while Fluorine Coating makes cleaning the lens a breeze.

Optical Construction: 14 elements in 11 groups
Filter Size: ø62mm
Length: 114.6mm (4.5in)
Weight: 600g (21.2oz)
Minimum Object Distance: 0.3m (11.8in)

1 In comparison with currently available 85mm F/1.8 prime lenses for DSLR with full format sensors, excluding macro lenses. As of January 2016, source Tamron.
* The electromagnetic diaphragm is compatible with Nikon cameras. For more electromagnetic diaphragm-compatible cameras, see page 31.
All-in-One Zoom

16-300mm F/3.5-6.3 Di II VC PZD MACRO

Whether travelling, hiking or going to a family party - this lens is a true companion when you need low weight and the best image quality.

Large zoom area from 16mm to 300mm
From ultra wide-angle to super telephoto - this high-performance zoom lens is suited for all kinds of subjects and photo opportunities. Both group shots at close proximity and photos of far-away details can now be photographed with a single lens.

Light and compact - stellar photography without the weight
540 grams with a total length of barely ten centimetres, this zoom lens is ideal for hiking and travelling light. The use of innovative optic elements, such as lenses made of XR glass and hybrid aspherical lenses, is what makes it so compact.

Fast PZD auto-focus and VC image stabilizer
Never miss a perfect moment again: Tamron’s Piezo Drive ultrasonic motor gives you lightning-fast focusing. The VC image stabilizer balances the smallest camera vibrations and shaking. Your telephoto-range shots will be sharp even in low light conditions.

Sensational Moments

Enormous zoom, light weight - this is how the 16-300mm F/3.5-6.3 Di II VC PZD MACRO won us over. As travel bloggers from 22places.de, we’re always on the road and we like to travel as light as possible. Tamron’s travel zoom means we don’t have to compromise any more.

The 16-300mm has a huge range of focal lengths (focal lengths 24.8mm to 465mm equivalent to full-format). That means you can capture great landscape photos and also very personal snapshots of street scenes. We can even take macro photos without having to change the lens first.

We captured so many sensational moments with the Tamron 16-300mm on our six-month Asia trip - from the Festival of Lights in Chiang Mai to the Chocolate Hills in the Philippines. We could take photos with slower shutter speeds thanks to the VC image stabilizer, and it reliably helped us avoid shaking when we were filming out of buses or trains. The images are sharp and very detailed. They show all these moments exactly as we experienced them at the time.

This extremely versatile megazoom lens for digital SLR camera with APS-C sensors covers a huge range of focal lengths from 16mm to 300mm. You can even shoot macro photos, thanks to the short Minimum Object Distance of 0.39m. Our newly developed aspherical elements and multi-layer compensated lenses warranty excellent image quality.
**28-300mm F/3.5-6.3 Di VC PZD**

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.

**18-200mm F/3.5-6.3 Di II VC**

A high-power zoom lens covering the versatile 18-200mm focal range. The lightest weight in the world¹ has been achieved despite the built-in VC image stabilization, and with the latest optical design, the lens produces exceptional rendering performance.

¹ Among 18-200mm interchangeable lenses for APS-C DSLR cameras with O.I.S. (As of June 2015. Source: Tamron)

**18-270mm F/3.5-6.3 Di II VC PZD**

This high-power zoom lens covers a wide focal range from 18mm at the wide end to 270mm at the telephoto end, and produces sharp and clear image quality. Tamron’s VC image stabilization reduces image blur caused by camera shake to deliver sharp images even when shooting handheld in low light or at the telephoto end.

**14-150mm F/3.5-5.8 Di III for Micro Four Thirds System**

A 10.7x high power zoom lens covering 14-150mm focal range (equivalent to 28-310mm in 35mm format), incorporating molded-glass aspherical elements, LD elements and other specialized glass elements for excellent correction of different aberrations to achieve stellar imaging performance.

* This lens cannot be used with digital SLR cameras with built-in mirror box or with 35mm film SLR cameras.
* This product conforms to the “Micro Four Thirds System Standard” established by Olympus Imaging Corporation and Panasonic Corporation. Micro Four Thirds™ and the Micro Four Thirds logo mark are trademarks or registered trademarks of Olympus Imaging Corporation, in Japan, the United States, the European Union, and other countries. The company names and product names in this document are the trademarks or registered trademarks of their respective owners.

**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 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.
**10-24mm F/3.5-4.5 Di II VC HLD**

Experience the complete joy of shooting with Tamron’s new compact, ultra-wide-angle zoom

**Excellent optical performance across the entire zoom range**

The optical design includes 16 elements in 11 groups. A new large aperture aspherical lens and LD (Low Dispersion) lens elements deliver exceptional resolution across the complete zoom range – combined with stable imaging across the entire frame.

**VC lets you go wherever your vision takes you**

Tamron’s unique VC (Vibration Compensation) technology makes it easy to enjoy handheld, wide-angle shooting, even in low light environments such as evening and indoors. Tamron has optimized the actuator and control algorithm in order to incorporate VC into our new Model B023.

**HLD meets highly precise AF**

With this lens, Tamron introduces the HLD (High/Low torque-modulated Drive) AF drive system. The excellent driving power of the all-new HLD enables stable and precise focusing, even with the large focusing lens elements used on Model B023. The Full-time Manual Focus override allows you to make fine adjustments – without having to switch from AF to MF mode.

**Focal length comparison: 10-24mm F/3.5-4.5 Di II VC HLD**

<table>
<thead>
<tr>
<th>Focal Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16mm (33mm)</td>
<td>10mm (16mm)</td>
</tr>
<tr>
<td>24mm (37mm)</td>
<td>37mm (58mm)</td>
</tr>
</tbody>
</table>

**Exceptional perspectives thanks to a gigantic focal length of 10-24mm**

**The VC Image Stabilizer delivers sharp and clear images, even in low-light environment**

This ultra-wide-angle zoom lens for APS-C DSLR cameras offers the finest of all Tamron worlds: best-in-class¹ 10-24mm focal length range (the 35mm equivalent of 16-37mm), the compact size of our previous SP AF 10-24mm F/3.5-4.5 Di II LD Aspherical [IF] (Model B001), plus vastly improved optical performance. It also includes state-of-the-art Tamron technology like VC (Vibration Compensation), a new HLD (High/Low torque-modulated Drive), Fluorine Coating, and Moisture-Resistant Construction.

**Spectacular angles, unique moments**

"On our trip to the beautiful city of Rome, we only brought one lens with us: the Tamron 10-24mm F/3.5-4.5 Di II VC HLD. The focal range of this ultra-wide-angle zoom lens excited us right away. It’s just perfect to capture impressive shots of the Italian capital. With this lens, we were able to take some really great pictures of every highlight of the city. Particularly in the field of architectural and street photography, many perspectives had an extremely spectacular angle of view. Fascinated by the enormous field of depth as well, we came as close as 0.24m to several motives and still could include a lot of background to the picture. They almost appear three-dimensional, as if you could walk in them.

The general performance of the lens, especially the high resolution and amazing reproduction of detail, have positively surprised us. It is amazing how sharp the pictures are. This also shows the strengths of the new and improved autofocus system and, above all, the image stabilizer, which prevents camera shake when shooting handheld! We photographed a restaurant entrance with a 1/4 second – the picture we took is crisp and clear. It wasn’t raining in Rome, which led to very dusty streets. We trusted the Moisture-Resistant Construction of the lens to deal with it and weren’t disappointed at all."
Ultra-Wide-Angle Zoom / High-Speed Zoom

**SP AF10-24mm F/3.5-4.5 Di II LD Aspherical [IF]**

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.

**SP 15-30mm F/2.8 Di VC USD**

Professional wide-angle zoom for outstanding perspective. This wide-aperture F/2.8 lens expands Tamron’s SP Series in the low focal length range. A unique XGM lens element (Expanded Glass Molded Aspherical) reduces aberrations to a minimum and, in combination with the VC image stabilizer, provides peerless imaging performance.

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

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]**

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.

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**Optical Construction**

- **SP AF10-24mm**: 16 elements in 13 groups
- **SP 15-30mm**: 19 elements in 14 groups
- **SP AF17-50mm F/2.8 XR**: 18 elements in 13 groups
- **SP AF17-50mm F/2.8 XR**: 12 elements in 9 groups

**Filter Size**

- **SP AF10-24mm**: ø67mm
- **SP 15-30mm**: ø72mm
- **SP AF17-50mm F/2.8 XR**: ø77mm

**Length**

- **SP AF10-24mm**: 83.2mm (3.3in)
- **SP 15-30mm**: 94.5mm (3.7in)
- **SP AF17-50mm F/2.8 XR**: 142.5mm (5.6in)
- **SP AF17-50mm F/2.8 XR**: 86.5mm (3.4in)

**Weight**

- **SP AF10-24mm**: 440g (15.5oz)
- **SP 15-30mm**: 570g (20.1oz)
- **SP AF17-50mm F/2.8 XR**: 1,100g (38.8oz)
- **SP AF17-50mm F/2.8 XR**: 406g (14.3oz)

**Minimum Object Distance**

- **SP AF10-24mm**: 0.27m (10.6in)
- **SP 15-30mm**: 0.29m (11.4in)
- **SP AF17-50mm F/2.8 XR**: 0.28m (11in)
- **SP AF17-50mm F/2.8 XR**: 0.24m (9.4in)

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**Specifications**

- **Focal Length**: 17mm
- **Exposure**: F/8 at 1/640 sec.
- **ISO 200**

- **Focal Length**: 15mm
- **Exposure**: F/2.8 at 5 sec.
- **ISO 1600**

- **Model B001
- **Model A012
- **Model B005
- **Model A16
- **Model B005

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**Specifications**

- **Filter Size**: ø67mm
- **Length**: 83.2mm (3.3in)
- **Weight**: 440g (15.5oz)
- **Minimum Object Distance**: 0.27m (10.6in)

- **Filter Size**: ø72mm
- **Length**: 94.5mm (3.7in)
- **Weight**: 570g (20.1oz)
- **Minimum Object Distance**: 0.29m (11.4in)

- **Filter Size**: N/A
- **Length**: 142.5mm (5.6in)
- **Weight**: 1,100g (38.8oz)
- **Minimum Object Distance**: 0.28m (11in)

- **Filter Size**: ø77mm
- **Length**: 86.5mm (3.4in)
- **Weight**: 406g (14.3oz)
- **Minimum Object Distance**: 0.24m (9.4in)
SP 24-70mm F/2.8 Di VC USD

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.

SP AF28-75mm F/2.8 XR Di LD Aspherical (IF) MACRO

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.

SP 70-200mm F/2.8 Di VC USD

Versatile telephoto lens with F/2.8 aperture throughout and lots of modern features. The optical construction of the world’s most compact lens of its class contains a special XLD glass element and four LD elements, allowing top-class picture quality and contributing to a compact form factor.

SP AF70-200mm F/2.8 Di LD [IF] MACRO

With a length of just 195mm, this lens is one of the most compact 70-200mm telephotos. Despite its modest dimensions, it has a large aperture and high sharpness and resolution. The low Minimum Object Distance of just 0.95m means you can take close-up shots with a magnification of 1:3.1.
AF70-300mm F/4-5.6 Di LD MACRO
The 1:2 macro function telephoto lens is the ideal addition to a standard lens. This model combines high mechanical quality with outstanding optical properties. The macro switch-over mechanism at focal ranges 180-300mm lets the photographer shoot the subject from just 0.95m away.

SP 70-300mm F/4-5.6 Di VC USD
This compact telephoto lens is the first choice for photo enthusiasts wanting to capture faraway subjects fulsize in a photo. Equipped with VC image stabilization and USD auto-focus, you can take sharp, lively photos in a variety of situations. XLD and LD glass elements help to reduce optical image defects.

SP 150–600mm F/5-6.3 Di VC USD
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.
This tried and tested version of Tamron’s classic 90mm macro lens is the ideal universal lens for ambitious photographers. The optical structure includes 10 elements in 9 groups, making for excellent imaging performance. The Minimum Object Distance is just 0.29m, so you can photograph even small objects at an image ratio of 1:1.

**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)

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This lens offers a special look at the subtleties in nature. You can use it to project your subjects life-size (1:1 image ratio) onto the sensor at a distance of 0.23m. The high speed and large aperture will give you wonderful blur effects and sharp photos without a tripod, even in low light.

**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)

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A unique telemacro lens that is just as well-suited to use outdoors and in the studio. At an image ratio of 1:1, it has a particularly long shooting distance and was specially developed for photographing timid subjects such as butterflies and other insects, to which you wouldn’t be able to get close enough with a normal macro lens.

**Optical Construction:** 14 elements in 11 groups  
**Filter Size:** Ø72mm  
**Length:** 165.7mm (6.5in)  
**Weight:** 985g (34.7oz)  
**Minimum Object Distance:** 0.47m (18.5in)  
(Includes the weight of the detachable tripod mount.)

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**SP AF60mm F/2 Di II LD [IF] MACRO 1:1**

**SP AF90mm F/2.8 Di MACRO 1:1**

**SP AF180mm F/3.5 Di LD [IF] MACRO 1:1**
## Lens Specifications

### Di for DSLR cameras

<table>
<thead>
<tr>
<th>Model</th>
<th>Lens Type</th>
<th>Focal Length</th>
<th>Maximum Aperture</th>
<th>Macro Capability</th>
<th>Diaphragm Range</th>
<th>Image Stabilizer</th>
<th>Built-in Filter Diameter</th>
<th>Recommended Power Source</th>
<th>Auto Focus</th>
<th>Price</th>
<th>Category</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>AD10</td>
<td>SP 15-30mm F2.8 Di VC USD</td>
<td>15-30</td>
<td>F2.8</td>
<td>18-24</td>
<td>SP-15</td>
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<td>N/A</td>
<td>1,100 (68.8)</td>
<td>600 (422)</td>
<td>$300</td>
<td>USD300</td>
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<td>F2.8</td>
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<td>910 (63.6)</td>
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<td>AF3</td>
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<td>F2.8</td>
<td>56-70</td>
<td>SP-70</td>
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<td>N/A</td>
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<td>F2.8</td>
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<td>N/A</td>
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<td>USD450</td>
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<td>F2.8</td>
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<td>SP-70</td>
<td>N/A</td>
<td>N/A</td>
<td>910 (63.6)</td>
<td>610 (426)</td>
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<td>USD450</td>
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<td>F2.8</td>
<td>56-70</td>
<td>SP-70</td>
<td>N/A</td>
<td>N/A</td>
<td>910 (63.6)</td>
<td>610 (426)</td>
<td>$450</td>
<td>USD450</td>
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### Di II for APS-C DSLR cameras

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<thead>
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<th>Model</th>
<th>Lens Type</th>
<th>Focal Length</th>
<th>Maximum Aperture</th>
<th>Built-in Filter Diameter</th>
<th>Recommended Power Source</th>
<th>Auto Focus</th>
<th>Price</th>
<th>Category</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>AD30</td>
<td>SP 15-30mm F3.5-5.6 Di II HLD</td>
<td>15-30</td>
<td>F3.5-5.6</td>
<td>18-24</td>
<td>SP-15</td>
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<td>18-30</td>
<td>F3.5-5.6</td>
<td>24-36</td>
<td>SP-18</td>
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<td>N/A</td>
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<td>300 (208)</td>
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<td>F3.5-5.6</td>
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<td>SP-28</td>
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<td>N/A</td>
<td>480 (32.5)</td>
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<td>F3.5-5.6</td>
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### Di III for mirrorless interchangeable-lens cameras

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<th>Model</th>
<th>Lens Type</th>
<th>Focal Length</th>
<th>Maximum Aperture</th>
<th>Built-in Filter Diameter</th>
<th>Recommended Power Source</th>
<th>Auto Focus</th>
<th>Price</th>
<th>Category</th>
<th>Remarks</th>
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<td>SP 14-30mm F3.5-5.6 Di III</td>
<td>14-30</td>
<td>F3.5-5.6</td>
<td>18-24</td>
<td>SP-14</td>
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<td>N/A</td>
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<td>150 (102)</td>
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<td>16-30</td>
<td>F3.5-5.6</td>
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<td>SP-16</td>
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<td>N/A</td>
<td>250 (16.8)</td>
<td>170 (115)</td>
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<td>F3.5-5.6</td>
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<td>N/A</td>
<td>270 (17.5)</td>
<td>190 (128)</td>
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[Editors' Note: This data is provided for reference. Prices and availability may vary. Please check with your local retailer or online store for the most accurate information.]