An entire philosophy in one compact body

18-270mm F/3.5-6.3 Di II VC PZD  Model B008

To infinitely extend the possibilities of photographic expression, Tamron has developed an innovative high-power zoom lens that is both small and lightweight, while ensuring high image quality. Products of uncompromising quality reflect an insistence on outstanding technology and superb image quality. The Model B008 inherits the philosophy of Tamron and comes with higher maturity. An optical design optimized for digital characteristics and prominent technology such as coatings, a Vibration Compensation (VC) system and a new Piezo Drive (PZD) autofocus (AF) system come together in a compact body that features superior operability. Combining high resolution, functionality, and practicality, Tamron lenses continue to set the pace.
TAMRON LENS

Super Performance for Discriminating Shooters

The Tamron Super Performance (SP) 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 superior and innovative designs that have established an enviable reputation for excellence among those knowledgeable photographers that demand the very best.

Low Dispersion (LD) Glass for Greater Lens Sharpness

Low Dispersion (LD) glass elements in a lens help reduce chromatic aberration, 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 edge of the field that often occurs at short focal lengths (the wide-angle end of the zoom range).

Extra Low Dispersion (XLD) Lens

Extra Low Dispersion (XLD) 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, Extra Low Dispersion (XLD) glass elements in a lens help reduce chromatic aberration, for Greater Lens Sharpness.

Special Glass for Better Performance and More Compact Lens Designs

Extra Refractive Index (XR) glass can bend light rays at steeper angles, thereby decreasing the physical length of the lens while enhancing imaging performance by minimizing optical aberrations. This has allowed Tamron to develop a line of shorter, smaller-diameter (lighter) lenses without sacrificing lens speed, and actually upgrading image quality compared to older designs. XR glass is costlier than conventional glass but it yields enhanced optical power distribution, making possible many of the outstanding and innovative lens designs that bear the XR designation. XR glass, with its superior light-bending power, makes it possible to design a short-barrel lens with the same light-gathering ability (aperture of valued as a long-barrel lens—even with a smaller diameter than its longer XR glass counterpart. By using this principle Tamron has been able to shorten the length of the entire optical system and produce lighter, more compact lenses of the same speed, and also to provide greater zoom ranges in lenses that are more convenient to carry and hand-hold.

Hybrid Aspherical Elements Provide the Ultimate in Image Quality and Compactness

Tamron uses several Hybrid Aspherical lens elements in the 17-55mm VC, 28-75mm (2000C), 18-270mm VC F2.8D 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 replace the place of multiple elements without compromising performance. This is what allows us to produce remarkably compact lenses that deliver a uniformly high level of image quality at all focal lengths and apertures.

TECHNOLOGIES

Capture your subject every time, even under unfavorable conditions.

New eBAND (Extended Bandwidth & Angular-Dependency) Coating

Three new coatings techniques developed by Tamron employ a nano-structured layer (from 11,000,000mm of ultra-low refractive index, with dimensions smaller than the wavelengths of visible rays of light). This nano-structured layer coupled with the sophisticated multi-layer coating settings, yields significant anti-reflection properties, effectively reducing undesired flare and ghosting to an absolute minimum to deliver sharp, clear images.

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

Tamron’s unique Vibration Compensation (VC) 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 glides smoothly on three balls with little friction. This simple mechanical structure is one of the secrets to Tamron’s compact lenses.

Low Dispersion (LD) Glass

LD Glass

LD Glass

Regular Optical Glass

Regular Optical Glass

LD Glass

LD Glass

Low Dispersion (LD) Glass

Low Dispersion (LD) Glass

Low Dispersion (LD) Glass

Low Dispersion (LD) Glass

LD Glass

LD Glass

Innovative eBAND Coating Technology

Tamron uses advanced multi-coating techniques to suppress reflections and light dispersion on lens elements which 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.

* Moisture-resistant construction is used on the 2000C (28-75mm), A005 (70-300mm), and F004 (90mm).

* The eBAND Coating is used for the F004 (90mm).

* VC is located on the B008 (18-270mm), A007 (28-300mm/ except Sony mount), B009 (18-270mm/ except Sony mount), A005 (70-300mm/ except Sony mount), A007 (70-300mm Sony mount), and F004 (90mm Sony mount).

* This expanded view is a conceptual image.
**Internal Focusing (IF) System**

Tamron’s conversion APS-C size taken with an 10mm (Equivalent to 16mm) 109° 18mm (Equivalent to 28mm) 76° 24mm (Equivalent to 37mm) full-size camera.

*Tamron’s conversion APS-C size taken with a 60° material of choice whenever we produce high-precision components that require Tamron has developed advanced proprietary methods for manufacturing these engineering plastic materials in many critical mechanical components of the lens. To insure the highest levels of performance and durability without adding additional 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 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.

**Zoom Lock (ZL) Feature**

Another original Tamron mechanical engineering concept is the Zoom Lock (ZL), 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 possible only when Tamron developed a lens chassis that permitted smooth and precise extension of the lens barrel. The “Multiple-Cam Zoom Mechanism” is an original Tamron design that incorporates several precision cam cutter into a single cylindrical surface using high-tech automated machinery. This key component extends 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 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 has developed proprietary methods for manufacturing these advanced poly carbonate materials to a very high degree of precision, and re-polymerized these 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.

**Focus at the precise moment your sensibilities are touched.**

Piezo Drive (PZD)

An exclusive Tamron innovation, the Piezo Drive (PZD) is an advanced ultrasonic, ceramic stepper motor based on the latest piezoelectric technology—the standing wave principle. It utilizes high-frequency voltage to turn a ceramic piezoelectric element with a sawing motion, causing the metal tip at the motor’s contact point to rotate elliptically, thereby turning the motor 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.

Ultrasonic Silent Drive (USD)

Ultrasonic Silent Drive (USD) 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 deflection causing waves when voltage of a specific frequency is applied. This advanced electronically controlled acoustic system is a precision-crafted ultra-precision ceramic unit 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.

**Sophisticated Tamron Production Technology**

Tamron’s Quality Assurance and Environmental Protection Activities

- **ISO Standards**
  - ISQ 9001:2000 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 avoiding harmful substances from the beginning and minimizing positive environmental programs. As Tamron, we have addressed such issues as energy savings and significant reduction in 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 included Environmental Reports to introduce its socially responsible philosophy and practices for environmental protection. For further details, please visit Tamron’s website at http://www.tamron.co.jp/en/envalmostock/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, Tamron employees are fully committed to the preservation of the global environment at every level and to each facet of company activity. At Tamron, we recognize the significance of our social responsibilities.
  - **ISO 14001 The Fundamentals of the Environmental Conservation Policy**
    1. Comply with relevant laws and regulations.
    2. Conservation and protection of natural resources.
    4. Promotion of recycling and reduction activities to maintain the quality of the environment. The Environmental Conservation program aims to promote positive action to reduce environmental impact.
    5. Promote design, philosophy and development of environmentally friendly products to contribute to environmental conservation.
    6. Promote environmental education.
    7. Disclose environmental-related information to the public.

**Different Angles of View with Different Focal Lengths**

**Sophisticated Tamron Production Technology**

Tamron manufacturing processes are certified to demanding ISO 9001 standards, an internationally recognized indicator of the most thorough quality control. Tamron’s high-power zoom lens comes 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.
A lineup of lenses tailored to the features of each class of camera.

**TAMRON Lens Lineup**

**Di III**
For mirrorless interchangeable-lens cameras
Digitally Integrated Design (Di) III lenses are designed specifically for mirrorless interchangeable-lens cameras. Advanced technology is condensed into a small, lightweight lens that fits small mirrorless interchangeable-lens cameras.

**Di II**
For APS-C format digital SLR cameras
Digitally Integrated Design (Di) II lenses are designed for digital SLR cameras with APS-C format image sensors. The lenses adopt a variety of optical designs tailored to the characteristics of digital cameras, and also feature focal lengths configured to achieve the optimum angle of field.

**Di**
For all SLR cameras
Digitally Integrated Design (Di) is a Tamron designation that applies to lenses that have been optimized for digital capture using advanced multi-coating techniques and optical designs that ensure excellent image quality across the entire picture field. Because of these characteristics, Di lenses provide outstanding performance on cameras with full-frame and APS-C format sensors as well as on 35mm film.

**For APS-C format digital SLR cameras**

**High-Speed Zoom Lens**
- **MODEL M01**
  - SP 10-24mm F/3.5-4.5 Di II
  - SP 28-75mm F/2.8 Di USD
- **MODEL M02**
  - SP 24-70mm F/2.8 Di USD
- **MODEL M03**
  - SP 70-200mm F/2.8 Di USD
- **MODEL M04**
  - SP AF 28-75mm F/2.8 Di
- **MODEL M05**
  - SP AF 10-24mm F/3.5-4.5 Di II

**Telephoto Zoom Lens**
- **MODEL M06**
  - SP 70-200mm F/2.8 Di USD
- **MODEL M07**
  - SP 70-300mm F/4-5.6 Di USD
- **MODEL M08**
  - SP 300-800mm F/5.6 Di

**Ultra-Telephoto Zoom Lens**
- **MODEL M09**
  - SP AF 150-500mm F/5-6.3 Di II
  - SP 300-800mm F/5.6 Di

**Macro Lens**
- **MODEL M10**
  - SP AF 70-200mm F/4-5.6 Di
  - SP AF 90mm F/2.8 Di

**Ultra-Wide-Angle Lens**
- **MODEL M11**
  - SP AF 10-24mm F/3.5-4.5 Di II
- **MODEL M12**
  - SP AF 11-16mm F/2.8 Di

**All-in-One Zoom Lens**
- **MODEL M13**
  - SP 18-200mm F/3.5-6.3 Di III VC
  - SP 18-270mm F/3.5-6.3 Di II VC PZD

**High-Speed Zoom Lens**
- **MODEL A007**
  - SP 24-70mm F/2.8 Di VC USD
- **MODEL A008**
  - SP 70-200mm F/2.8 Di VC USD
- **MODEL A009**
  - SP 70-300mm F/4-5.6 Di VC USD

**Macro Lens**
- **MODEL A010**
  - SP AF 70-200mm F/4-5.6 Di
  - SP AF 90mm F/2.8 Di

**Ultra-Telephoto Zoom Lens**
- **MODEL A011**
  - SP AF 150-500mm F/5-6.3 Di II

**All-in-One Zoom Lens**
- **MODEL A012**
  - SP 18-200mm F/3.5-6.3 Di II VC
  - SP 18-270mm F/3.5-6.3 Di II VC PZD

**Designed to fit digital SLR cameras from major camera makers**

Tamron’s AF lenses fit AF models from major camera makers. Please be sure to select the appropriate mount for your camera.

*For Di II Series lenses shown in this catalogue, focal length values equivalent to the 35mm format, which appear in the main text and photo data, are determined by multiplying each value by 1.5.

*For the Di III Series lenses shown in this catalogue, focal length values equivalent to the 35mm format, which appear in the main text and photo data, are determined by multiplying each value by 1.5.

*Some models are not available for all mounts. Please check the lens specifications on pages 30 - 31 for mount availability.

For Canon AF - For Nikon AF - For Pentax AF - For Sony AF

Enter a new and exciting world, with Tamron.
Light. Compact. Stylish in Silver or Black.
The First All-in-One Zoom for the Sony Mirrorless Interchangeable-Lens Camera Series by Tamron, the Pioneer in High-Power Zoom Lens Design

This striking new 11X zoom features greatly enhanced shooting flexibility with the Sony mirrorless interchangeable-lens camera series. Equivalent focal lengths from the 27mm wide-angle to the 300mm super telephoto are provided in compact form, with the latest version of Tamron’s acclaimed Vibration Compensation (VC) system incorporated. Moreover, an advanced optical design and stepping motor AF drive deliver extraordinary image quality in addition to seamless AF performance.

*The B011 cannot be used with digital SLR cameras with a built-in mirror box or with conventional 35mm film SLR cameras.

*This product is developed, manufactured and sold based on the specifications of E-mount which was disclosed by Sony Corporation under the license agreement with Sony Corporation.

*Please see “NOTE: When using Continuous AF (AF-C) Mode on B011” on page 31.

*Di III (Digitally Integrated Design): A designation Tamron gives to lenses engineered specifically for mirrorless interchange-lens cameras with no internal mirror box or pentaprism, adopting an optical design that matches the characteristics of the digital camera.

*On the Sony mirrorless interchangeable-lens camera series that use APS-C size image sensors, the B011 provides an angle of view equivalent to a 27-300mm focal-length lens on a 35mm format camera.

18-200mm F/3.5-6.3 Di III VC for the Sony mirrorless interchangeable-lens camera series Black/Silver

MODEL B011

Filter Diameter: ø62mm   Length: 96.7mm (3.8in)   Weight: 460g (16.2oz.)

*Length is the distance between the mount face and the tip of the lens.

"Mirrorless interchangeable-lens cameras" are also known as “Compact System Cameras.”

Wins TIPA Awards 2012

Best CSC*1 Entry Level Lens

*1 CSC: Compact System Camera

Focal length: 18mm (Equivalent to 27mm)

Focal length: 50mm (Equivalent to 75mm)

Focal length: 100mm (Equivalent to 150mm)

Focal length: 200mm (Equivalent to 300mm)
The acclaimed Tamron 18-270mm VC ultra zoom for APS-C format DSLRs has reached an astonishing new level of compactness, performance, and speed with the addition of the Piezo Drive (PZD), an innovative ultrasonic autofocus motor based on an advanced piezo electric design. The result is a lens that’s considerably lighter, and noticeably shorter and slimmer (filter diameter: 62mm) than any previous lens in its class, and provides faster, quieter auto-focusing. Signature features that have made this amazingly versatile lens the world standard in its class have been retained. They include a 28-419mm equivalent (15x) zoom range, an improved, lightweight, compact Vibration Compensation (VC) system, macro focusing to 0.49m (19.3 inches) throughout, and, of course, superlative imaging performance.

*1 For SLR camera high-zoom-ratio lenses with 15x magnification capability. Current as of November 2012. (Source: Tamron).

The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Consequently, the name of the Sony mount, 18-270mm F/3.5-6.3 Di II PZD, does not include the VC description.

**The Sony mount does not include the VC image stabilization capability.**

*The Sony mount does not include the VC image stabilization functionality. Consequently, the name of the Sony mount, '18-270mm F/3.5-6.3 Di II PZD', does not include the VC description.*

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**MODEL B009**

18-270mm F/3.5-6.3 Di II VC PZD for Nikon, Canon
18-270mm F/3.5-6.3 Di II PZD for Sony

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**Product Specifications**

- **Filter Diameter**: ø62mm
- **Length**: 88mm (3.5in)
- **Weight**: 450g (15.9oz.)
High Speed Plus VC Anti-Shake for Ultimate Image Control

A masterpiece of innovative optical design, this compact, lightweight, high-performance standard zoom (28-78mm equivalent) delivers a fast F/2.8 aperture over its entire focal-length range for maximum creative flexibility. To maintain critical sharpness when shooting handheld it includes Vibration Compensation (VC), Tamron’s state-of-the-art, triaxial image stabilization system. Three compound aspheric elements, special Low Dispersion (LD) glass, and BBAR (Broad-Band Anti-Reflection) coating ensure superb correction, color fidelity, and freedom from flare. A minimum focus distance of 0.29m (11.4 inches) offers exciting close-up opportunities.

Classic, Compact, Lightweight Ultra-Long-Range Zoom for APS-C Format

The first all-in-one zoom lens to achieve wide-angle to long-telephoto coverage (28-300mm equivalent) along with outstanding imaging performance, it’s still the world’s lightest, most compact 11.1X zoom lens in its class. Ready for virtually any photographic opportunity—family events, distant wildlife and sports action, compelling close-ups of the kids—it does it all without having to change lenses. Advanced Tamron technology—special Extra Refractive Index (XR) and Low Dispersion (LD) glass, Hybrid Aspheric, and Internal Focusing (IF)—is what makes all this possible in a dramatically downsized package. Cutting-edge internal and external multi-coating assures flare-free pictures even under challenging conditions.
High Speed, High Performance, Perfect Light and Image Control

With its wide F/2.8 constant aperture, this superb high-speed wide-angle to medium-telephoto (26-78mm equivalent) zoom lets you create natural-looking pictures in almost any light, and shoot at faster shutter speeds too. One of the most compact and lightweight lenses in its class, its shallow depth of field at wide apertures allows you to create dramatic pictorial and portrait effects by softening background details so the subject looks more vibrant and three-dimensional.

Unique High-Speed F2 1:1 Macro with Classic Portrait Potential

This exciting lens is the first in its class to combine top-notch macro shooting performance down to 1:1 (life-size on-sensor image) with unequalled depth of field control and extended low-light shooting ability thanks to its ultra-wide F2 aperture. With a 35mm-equivalent focal length of 90mm, a Tamron tradition, it’s a superb choice for portraits and its two Low Dispersion (LD) glass elements and Internal Focusing (IF) endow it with exceptional imaging performance.

<table>
<thead>
<tr>
<th>Macro Lens</th>
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<tbody>
<tr>
<td>MODEL G005</td>
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<tr>
<td>SP AF60mm F/2 Di II</td>
</tr>
<tr>
<td>for Nikon, Canon, Sony, Pentax</td>
</tr>
<tr>
<td>Filter Diameter: ø55mm</td>
</tr>
<tr>
<td>Length: 80mm (3.1in)</td>
</tr>
<tr>
<td>Weight: 350g (12.3oz.)</td>
</tr>
</tbody>
</table>

*Length is the distance between the mount face and the tip of the lens.

©Takehiko Nakafuji
A High-Performance Ultra-Wide-Angle Zoom Lens for Shooting Vast Landscapes That Far Exceed Your Own Vision

This lens uses a high-precision glass-molded aspherical lens and three hybrid aspherical lenses to render a wide 10-24mm (equivalent to 16-37mm) focal range in superb quality. Despite the compact, lightweight body, this ultra-wide zoom lens offers a range of wide-angle shooting possibilities in a single lens. Use an ultra-wide angle to capture photos of vast landscapes that far exceed your own vision, or shoot at semi-wide angles for snaps that approximate your own field of view.

**Ultra-Wide-Angle Lens**

- **Model:** B001
- **Focal Length:** 10mm (Equivalent to 16mm)  Exposure: F/22 at 1/40 sec  ISO: 100
- **Uses:** Ultra-wide angle to capture photos of vast landscapes.
- **Minimum Focus Distance:** Throughout the entire zoom range

**Specifications**

- **Filter Diameter:** ø77mm
- **Length:** 86.5mm (3.4in)
- **Weight:** 406g (14.3oz.)

*Length is the distance between the mount face and the tip of the lens.*
For all SLR cameras

The World’s First*1 F/2.8 Large-Aperture Standard Zoom Lens with Image Stabilization

Equipped with a Vibration Compensation (VC) mechanism that provides a stable image that seems virtually pasted onto the viewfinder and with an Ultrasonic Silent Drive (USD) motor enabling speedy and silent autofocusing, this is a high-quality, highly functional, large-aperture standard zoom lens covering the 24-70mm focal range.*2 The lens makes full use of specialized glass elements in its layout, including three Low Dispersion (LD) elements and two Extra Refractive Index (XR) glass elements to deliver sharp, high-contrast image quality. It is also Tamron’s first lens to feature its new moisture-resistant construction. This is a full-featured standard zoom lens supporting photographic expressions that transcend conventional limitations in portraits, landscapes, and studio shoots.


*2 With SLR cameras corresponding to APS-C format, the angle of view based on 35mm equivalent focal length will range from 37mm to 109mm.

NEW MODEL A007

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

SP 24-70mm F/2.8 Di USD
For Sony

For Hand-Held Shooting

Focal length: 70mm  Exposure: F/5.6 at 1/15 sec  ISO: 400

An F/2.8 large-aperture standard zoom lens with Tamron’s original Vibration Compensation (VC) mechanism enables handheld shooting even under low-light conditions.

NEW MODEL A007

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

SP 24-70mm F/2.8 Di USD
For Sony

For Hand-Held Shooting

Focal length: 24mm  Exposure: F/4 at 1/60 sec  ISO: 100

The use of Low Dispersion (LD) and Extra Refractive Index (XR) lens elements reduces aberrations and achieves image quality at the top of its class when used on either APS-C or full-frame (35 mm) format cameras.

Minimum focus distance
Throughout the entire zoom range

Weight: 825g (29.1 oz.)

Filter Diameter: ø82mm
Length: 108.5mm (4.3 in)

**Length is the distance between the mount face and the tip of the lens.**
Fast, Ultra-Compact Mid-Range Zoom for Digital and Film SLRs

This ground-breaking high-speed mid-range zoom is prized by pros and serious shooters for its fast F/2.8 constant aperture, evenness of illumination, and its outstanding imaging performance, and by all photographers for its compact size and reasonable weight that make it feel like an ordinary standard zoom. These admirable characteristics have been achieved by the use of special Extra Refractive Index (XR) and Low Dispersion (LD) glass, the efficient use of aspherical elements, and a non-rotating Internal Focusing (IF) design. This remarkable zoom lens also focuses down to 0.33m (13 inches) (1:3.9 magnification) at all focal lengths for satisfying close-up performance and is compatible with APS-C and full-frame-format SLRs. Not surprisingly it is widely acclaimed as a classic.

*Please check Nikon camera compatibility information for Di series lenses with built-in AF motors for the Nikon mount on page 30.

**High-Speed Zoom Lens**

**MODEL A09**

SP AF28-75mm F/2.8 XR Di

LD Aspherical (IF) Macro

for Canon, Nikon, Sony, Pentax

Focal length: 28mm (Equivalent to 43mm)  Exposure: F/2.8 at 1/160 sec  ISO: 1600

Delivering the brightness of a wide F/2.8 aperture throughout the entire zoom range, great for when you desire a slightly faster shutter speed, or when you want to be sure of getting a usable shutter speed. A larger aperture standard zoom lens that broadens your photographic possibilities.

**Filter Diameter**: ø67mm  **Length**: 92mm (3.6in)  **Weight**: 510g (18.0oz.)

*Length is the distance between the mount face and the tip of the lens.

**Ultimate Ultra-Long-Range Zoom with Advanced Vibration Compensation**

This remarkably handy all-in-one 28-300mm zoom covers an impressive 10.7x range on full-frame and APS-C DSLRs and focuses to 0.49m (19.3 inches) in Macro for dramatic close-ups. To ensure sharp handheld shots, it incorporates Tamron's exclusive state-of-the-art Vibration Compensation (VC) system, and its cutting-edge formula includes special Extra Refractive Index (XR), Low Dispersion (LD), and Anomalous Dispersion (AD) glass plus aspherical elements to deliver exquisite image quality.

*Please check important information on the use of the Model A20 on page 31.

**All-in-One Zoom Lens**

**MODEL A01**

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

LD Aspherical (IF) Macro

for Nikon, Sony, Canon

Focal length: 39mm (Equivalent to 60mm)  Exposure: F/14 at 1/4 sec  ISO: 100

Focal length: 80mm (Equivalent to 124mm)  Exposure: F/4 at 1/40 sec  ISO: 100

A high-power zoom lens for a full-size camera yet with a lightweight, compact body, this is suitable for carrying with you conveniently. Reach 28-300mm with just one lens to cover the 300mm equivalent extremely equivalent to 456mm, allowing you to try ever longer focal lengths. Reach length: 300mm (Equivalent to 456mm)  Exposure: F/4 at 1/125 sec  ISO: 100

**Filter Diameter**: ø62mm  **Length**: 85.7mm (3.4in)  **Weight**: 435g (15.3oz.)

*Length is the distance between the mount face and the tip of the lens.

**High-Power All-in-One Zoom with Extra Reach and Close-up Power**

Reach out and grab distant detail, wildlife, and sports action with this amazing 11X extended-range wide-to-super-tele zoom that covers both full-frame and consumer DSLR (APS-C) formats, and focuses down to an incredible 0.49m (19.3 inches) (1:2.9) for breathtaking close-ups. If there’s any compact zoom that does it all on digital and film SLRs, this is it.

**All-in-One Zoom Lens**

**MODEL A061**

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

LD Aspherical (IF) Macro

for Canon, Sony, Pentax

Focal length: 39mm (Equivalent to 60mm)  Exposure: F/14 at 1/4 sec  ISO: 100

Focal length: 80mm (Equivalent to 124mm)  Exposure: F/4 at 1/40 sec  ISO: 100

A high-power zoom lens for a full-size camera yet with a lightweight, compact body, this is suitable for carrying with you conveniently. Attach to an APS-C size equivalent digital SLR to make the 300mm telephoto extremity equivalent to 465mm, allowing you to enjoy super-telephoto shooting.

**Filter Diameter**: ø67mm  **Length**: 99mm (3.9in)  **Weight**: 555g (19.6oz.)

*Length is the distance between the mount face and the tip of the lens.

**Ultimate Ultra-Long-Range Zoom with Advanced Vibration Compensation**

This remarkably handy all-in-one 28-300mm zoom covers an impressive 10.7x range on full-frame and APS-C DSLRs and focuses to 0.49m (19.3 inches) in Macro for dramatic close-ups. To ensure sharp handheld shots, it incorporates Tamron’s exclusive state-of-the-art Vibration Compensation (VC) system, and its cutting-edge formula includes special Extra Refractive Index (XR), Low Dispersion (LD), and Anomalous Dispersion (AD) glass plus aspherical elements to deliver exquisite image quality.

*Please check important information on the use of the Model A20 on page 31.

**All-in-One Zoom Lens**

**MODEL A20**

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

LD Aspherical (IF) Macro

for Canon, Sony, Pentax

Focal length: 39mm (Equivalent to 60mm)  Exposure: F/14 at 1/4 sec  ISO: 100

Focal length: 80mm (Equivalent to 124mm)  Exposure: F/4 at 1/40 sec  ISO: 100

A high-power zoom lens for a full-size camera yet with a lightweight, compact body, this is suitable for carrying with you conveniently. Attach to an APS-C size equivalent digital SLR to make the 300mm telephoto extremity equivalent to 465mm, allowing you to enjoy super-telephoto shooting.

**Filter Diameter**: ø67mm  **Length**: 99mm (3.9in)  **Weight**: 555g (19.6oz.)

*Length is the distance between the mount face and the tip of the lens.
A New Benchmark in Telephoto Zoom Lens Design

This premium, state-of-the-art, telephoto zoom lens is the culmination of decades of outstanding innovation in ultra-long-range zoom optics by Tamron. It provides professional and enthusiast users of full-frame and APS-C format digital SLR cameras with the ultimate in image quality and handling in the telephoto zoom class. Built to exacting Super Performance (SP) standards, it delivers ultra-high resolution across the image field at all focal lengths, along with the Ultrasonic Silent Drive (USD) for extraordinary auto-focusing speed and responsiveness. To assure razor sharp imaging when shooting handheld, the SP 70-300mm incorporates Vibration Compensation (VC), Tamron’s exclusive low-friction triaxial image stabilization system acclaimed for its unsurpassed anti-shake performance.

*The Sony mount does not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Consequently, the name of the Sony mount, SP 70-300mm F/4-5.6 Di USD, does not include the VC description.

Use the Ultrasonic Silent Drive (USD) to focus the lens swiftly and silently on the subject, and you will never miss a photo opportunity. The latest optical designs allow you to capture sharp, high-contrast images using the entire zoom range.

**A New Benchmark in Telephoto Zoom Lens Design**

**Telephoto Zoom Lens**

**MODEL A009**

**SP 70-200mm F/2.8 Di VC USD**

- *TIPA Awards 2011 - Best Entry Level Lens*
- *Minimum focus distance*: Throughout the entire zoom range
- *Filter diameter*: ø77mm
- *Length*: 188.3mm (7.4in)
- *Weight*: 1,470g (51.9oz.)
- *Includes the weight of the detachable tripod mount.*
- *Length is the distance between the mount face and the tip of the lens.*

This is a wide-aperture telephoto zoom lens compatible with full-size SLR cameras, equipped with Tamron’s proprietary Vibration Compensation (VC) image stabilization and Ultrasonic Silent Drive (USD) motor that ensures a speedy, silent autofocus. Using the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations, while the new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

**Telephoto Zoom Lens**

**MODEL A009**

**SP 70-200mm F/2.8 Di VC USD**

- For Nikon, Canon

With the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations. The new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

**Telephoto Zoom Lens**

**MODEL A009**

**SP 70-200mm F/4-5.6 Di VC USD**

- For Nikon, Canon

A wide-aperture telephoto lens packed into a body that’s smallest* in its class, with further advances in image quality and performance

This is a wide-aperture telephoto zoom lens compatible with full-size SLR cameras, equipped with Tamron’s proprietary Vibration Compensation (VC) image stabilization and Ultrasonic Silent Drive (USD) motor that ensures a speedy, silent autofocus. Using the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations, while the new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

**Di II**

**Di III**

**SP 70-200mm F/2.8 Di VC USD**

- For Nikon, Canon

A wide-aperture telephoto lens packed into a body that’s smallest* in its class, with further advances in image quality and performance

This is a wide-aperture telephoto zoom lens compatible with full-size SLR cameras, equipped with Tamron’s proprietary Vibration Compensation (VC) image stabilization and Ultrasonic Silent Drive (USD) motor that ensures a speedy, silent autofocus. Using the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations, while the new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

*Length is the distance between the mount face and the tip of the lens.*

**Telephoto Zoom Lens**

**MODEL A009**

**SP 70-300mm F/4-5.6 Di VC USD**

- For Nikon, Canon

**Di II**

**SP 70-300mm F/4-5.6 Di USD**

- For Sony

A wide-aperture telephoto lens packed into a body that’s smallest* in its class, with further advances in image quality and performance

This is a wide-aperture telephoto zoom lens compatible with full-size SLR cameras, equipped with Tamron’s proprietary Vibration Compensation (VC) image stabilization and Ultrasonic Silent Drive (USD) motor that ensures a speedy, silent autofocus. Using the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations, while the new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

*Length is the distance between the mount face and the tip of the lens.*

**Telephoto Zoom Lens**

**MODEL A009**

**SP 70-300mm F/4-5.6 Di USD**

- For Sony

**Di II**

**SP 70-300mm F/4-5.6 Di USD**

- For Sony

A wide-aperture telephoto lens packed into a body that’s smallest* in its class, with further advances in image quality and performance

This is a wide-aperture telephoto zoom lens compatible with full-size SLR cameras, equipped with Tamron’s proprietary Vibration Compensation (VC) image stabilization and Ultrasonic Silent Drive (USD) motor that ensures a speedy, silent autofocus. Using the Extra Low Dispersion (XLD) glass and Low Dispersion (LD) elements, this lens offers a new level of correction for chromatic aberrations, while the new advanced optical design delivers higher performance with excellent contrast and resolution. Packed in a compact body that’s smallest in its class, this lens boasts high image quality and F/2.8 brightness across the zoom range. In addition, use of a rounded diaphragm** has enabled this lens to achieve spectacular blue effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

*Length is the distance between the mount face and the tip of the lens.*
A Remarkable Ultra-Telephoto Lens
for Serious Shooters

A powerful zoom for capturing close, detailed views of faraway subjects, this high-magnification beauty is the perfect choice for nature and sports shooters. Remarkably light and compact, it compresses the apparent distance between objects within the frame, giving stunning pictorial effects.

Setting the Standard for Lightweight Long-Range Zooms

Designed for optimum handling ease and portability, it’s ideal for handheld shooting with full-frame and APS-C format SLRs. Its unsurpassed close-focusing ability (down to 0.95m or 1:2 in macro mode) makes it perfect for nature and portrait photography.

The Ultimate in Reach, Speed, and Performance for Dual SLR Formats

This exciting high-speed, high-performance F/2.8 telephoto zoom for full-frame and APS-C format SLRs delivers outstanding imaging performance in a remarkably convenient package plus beat close-focusing ability in its class—down to 0.95m (37.4 inches) (1:3.1 at 200mm) throughout the range. Its wide aperture permits the use of faster shutter speeds in any light, and the effective use of shallow depth-of-field to achieve dramatic pictorial effects.

The Detachable Filter Effect Control

The Filter Effect Control is designed to rotate the filter to the desired position with the hood attached, enabling you to simultaneously perform minute adjustments to the Polarizing effect. You can confirm the Polarizing effect through the viewfinder, all while using the hood to prevent harmful light from entering the lens.

A power zoom for capturing close, detailed views of faraway subjects, this high-magnification beauty is the perfect choice for nature and sports shooters. Remarkably light and compact, it compresses the apparent distance between objects within the frame, giving stunning pictorial effects.

The Ultimate in Reach, Speed, and Performance for Dual SLR Formats

This exciting high-speed, high-performance F/2.8 telephoto zoom for full-frame and APS-C format SLRs delivers outstanding imaging performance in a remarkably convenient package plus beat close-focusing ability in its class—down to 0.95m (37.4 inches) (1:3.1 at 200mm) throughout the range. Its wide aperture permits the use of faster shutter speeds in any light, and the effective use of shallow depth-of-field to achieve dramatic pictorial effects.

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A remarkable ultra-telephoto lens for serious shooters.

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The Detachable Filter Effect Control

The Filter Effect Control is designed to rotate the filter to the desired position with the hood attached, enabling you to simultaneously perform minute adjustments to the Polarizing effect. You can confirm the Polarizing effect through the viewfinder, all while using the hood to prevent harmful light from entering the lens.
A new masterwork lens in the 90mm Macro, which features beautiful blur effects and sharp images while inheriting the Tamron tradition.

Tamron’s classic 90mm Macro lens is reborn with Vibration Compensation (VC) image stabilization**, Ultra-Sonic Silent Drive (USD) motor, and new advanced optical design. It uses two Extra Low Dispersion (LD) glass elements made from specialists, high-grade glass and one Low Dispersion (LD) element, which are combined to ensure sharp images by thoroughly correcting any aberration. In addition, its new advanced optical design and a rounded diaphragm** have enabled this lens to achieve spectacular blur effects. The new eBAND [Extended Bandwidth & Angular-Dependency] Coating yields significant anti-reflection properties, efficiently reducing undesired flare and ghosting to an absolute minimum to deliver sharp, crisp images. The lens also boasts improved operability enabled by the Internal Focusing (IF) system, which focuses without protruding the lens group, as well as full-time manual focus that enables fine focus adjustments. The lens also comes in a moisture-resistant construction that helps prevent moisture from penetrating the lens.  

**The Sony mount does not include the VC image stabilization functionality, as Sony Digital SLR cameras include image stabilization functionality. Consequently, for more information on Sony-mount SP 90mm F/2.8 Di VC USD, please refer to the VC description.  
**2 This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

** Superior Performance and Features in a Long Tele Macro **

This unique high-performance telephoto macro lens is equally at home in the field and in the studio, providing outstanding image quality at all distances, plus an extra-long working distance for unsurpassed subject access. An advanced optical design incorporating special Low Dispersion (LD) glass and internal focusing (IF), it has a handy Filter Effect Control (FEC) ring for adjusting polarizing filters and an AF/MF ring for easier switching from manual to autofocus. The new one-touch switchover function is available on Nikon and Canon mounts only. The Sony mount requires switchover in two steps.

** Macro Lens **

**MODEL F004**  
SP 90mm F/2.8 Di MACRO 1:1 VC USD  
For Nikon, Canon

**Macro Lens **

**MODEL B01**  
SP AF 180mm F/3.5 Di LD [IF] MACRO 1:1  
For Nikon, Canon, Sony

** Macro Lens **

**MODEL 272E**  
SP AF 90mm F/2.8 Di MACRO 1:1  
For Nikon, Canon, Sony, Pentax
### Di III

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<th>Model</th>
<th>Lens</th>
<th>Local Name</th>
<th>Code</th>
<th>Di III Length</th>
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### Di II

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</table>

### Lens Specifications

- **Length**: The distance between the mount face and the tip of the lens.
- **Entire Length**: The distance between the tip of the lens and the camera body.
- **Weight**: The weight of the lens excluding the weight of the hood.
- **Di III Length**: The distance between the mount face and the tip of the Di III lens.
- **Di III Local Name**: The local name of the Di III lens.
- **Di Local Name**: The local name of the Di lens.

#### Lens Hoods

- **Deep hood**
- **Shallow hood**
- **Deep shaped hood**
- **Shallow shaped hood**
- **Concealed diagram of a flower shaped hood**

#### Accessory Mount Remarks

- **EF**: Canon’s main lens mount.
- **N**: Nikon's main lens mount.
- **P**: Pentax's main lens mount.
- **S**: Sony's main lens mount.
- **A**: Sigma's main lens mount.
- **M**: Mamiya's main lens mount.
- **O**: Olympus's main lens mount.
- **Sonic Motor**: A motorized focus mechanism.

#### Note: When using Continuous AF (AF-C) Mode on Di III lenses

- **Manual Focus Mode**: Di III lenses can be used in manual focus mode with the Di III lenses. However, the focus ring may not function in continuous focus mode.
- **Micro Focus Mode**: Di III lenses can be used in micro focus mode with the Di III lenses. However, the focus ring may not function in continuous focus mode.
- **Manual Focus Mode with Built-in Focus Motor**: Di III lenses can be used in manual focus mode with built-in focus motor. However, the focus ring may not function in continuous focus mode.

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*The A005 for Sony mount cannot be used with film AF SLR cameras not listed.*
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.

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’s extensive lineup of CCTV lenses includes 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 Vibration Compensation (VC) 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.

TAMRON CO., LTD.
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* Information valid as of November 2012. Information in this publication may be subject to change at any time.

Based on ISO9001 and ISO14001, Tamron produces superior products in accordance with the ISO9001 and ISO14001 standards while holding the environment and workers in the highest regard.