LENS CATALOGUE

www.tamron.com

TAMRON
New eyes for industry

Engineering Plastics Technology

LD
Low Dispersion glass

AD
Anomalous Dispersion glass

ASL
Hybrid Aspherical Elements

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

VC
Tamron's Unique VC (Vibration Compensation) Mechanism

PZD
PZD (Piezo Drive) is an Advanced Ultrasonic AF Motor

This expanded view is used to describe the technologies built into the Model B008, and does not represent the actual configuration or construction of the lens.

An entire philosophy in one compact body

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

EISA AWARD Best Product 2011-2012 ZOOM LENS Tamron AF 18-270mm F/3.5-6.3 Di II VC PZD

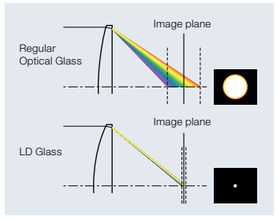
Camera GP Japan 2011 レンズ賞 Lens of The Year

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.

Faithfully capture the scene in front of your eyes.

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



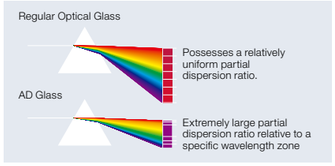
The difference in chromatic aberration between normal optical glass and LD glass elements (schematic diagram)

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, 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.

Anomalous Dispersion (AD) for Better Color Correction

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



The difference in partial dispersion factors between normal optical glass and AD glass elements (schematic diagram)

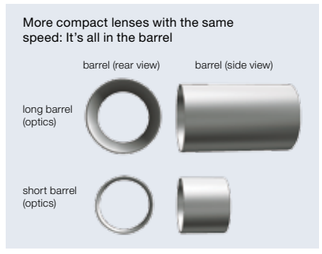
TAMRON LENS

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 impressive and innovative designs that have established an enviable reputation for excellence among those knowledgeable photographers that demand the very best.

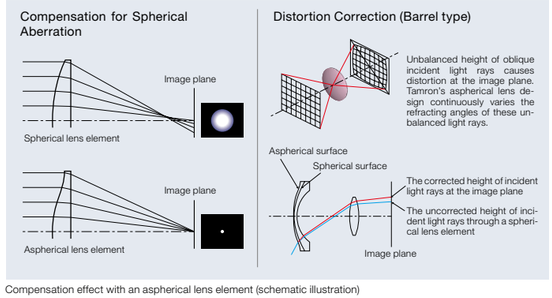
Special Glass for Better Performance and More Compact Lens Designs

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 value) as a long-barrel lens—even with a smaller lens diameter. 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 much 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 17-50mm VC, 17-50mm, 28-75mm, 28-300mm VC, 18-270mm VC PZD and other lenses bearing the Aspherical designation. These innovative optics allow us to achieve the ultimate in image quality, and at the same time produce lenses that offer remarkable zoom ranges in extraordinarily compact packages. By perfecting these cutting-edge advances for series production, Tamron has advanced the state of optical design, and virtually eliminated spherical aberration and image distortion from the high-power-zoom series. Through the effective application of Hybrid Aspherical Technology, one lens element can take the place of multiple elements without compromising performance. This is what allows us to produce remarkably compact long-range lenses that deliver a uniformly high level of image quality at all focal lengths and apertures.



Compensation effect with an aspherical lens element (schematic illustration)

TECHNOLOGIES

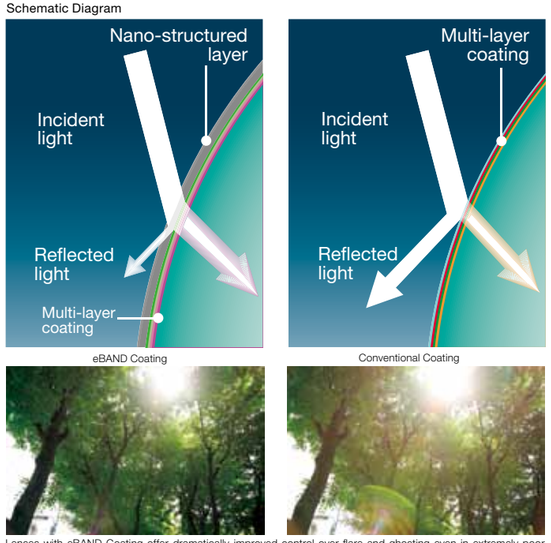
Capture your subject every time, even under unfavorable conditions.

New eBAND (Extended Bandwidth & Angular-Dependency) Coating

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

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

Schematic Diagram



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

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

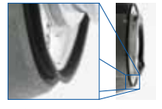
Tamron uses advanced multi-coating techniques to suppress reflections and light dispersion on lens element surfaces that result in reduced light transmission and may, under adverse conditions, cause flare and ghost images that reduce contrast and can diminish image quality. The BBAR (Broad-Band Anti-Reflection)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

Moisture-resistant Construction

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

*Moisture-resistant construction is used in the A007 (24-70mm), A009 (70-200mm), and F004 (90mm).

For Model A007



<Moisture-resistant construction diagram>

Introducing "VC" - Tamron's Unique Vibration Compensation Mechanism

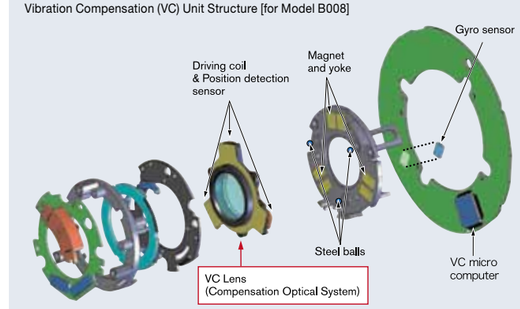
Tamron's unique Vibration Compensation (VC) mechanism uses a proprietary actuator and algorithms to deliver an extremely stable viewfinder image with excellent tracking. The mechanism uses a three-coil system to electromagnetically drive the lens element that compensates for vibration, which glides smoothly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

* VC is loaded on the B005 (17-50mm), A007 (24-70mm/except Sony mount), B011 (18-200mm), B008 (18-270mm/except Sony mount), A20 (28-300mm), A005 (70-300mm/except Sony mount), A009 (70-200mm/except Sony mount) and F004 (90mm/except Sony mount).

Taken under the same conditions using a vibrating table

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

Vibration Compensation (VC) Unit Structure [for Model B008]



* This expanded view is a conceptual image.

Carry every focal length in lightweight comfort.

Internal Focusing (IF) System

Internal Focusing (IF) 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 Focusing Distance (MFD) throughout its entire focusing range. In addition, IF improves optical performance by minimizing illumination loss at the corners of the image field (vignetting), and helps to suppress other aberrations that become more troublesome at different focusing positions.

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

Integrated Focus Cam Design for Optimizing Internal Focusing

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

Engineering Plastics Technology

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

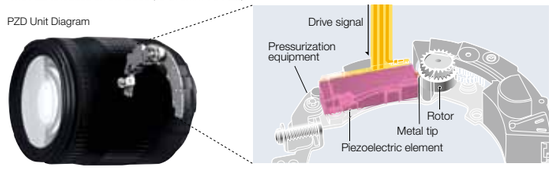
Focus at the precise moment your sensibilities are touched.

Piezo Drive (PZD)

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

*The PZD is loaded on the B008 (18-270mm VC PZD).

PZD Unit Diagram



Ultrasonic Silent Drive (USD)

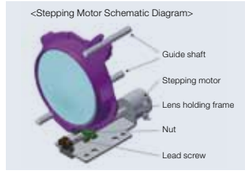
Ultrasonic Silent Drive (USD) is an ingeniously upgraded autofocus-drive system developed by Tamron to deliver the extraordinary auto-focusing speed and precision needed to capture every nuance of high-speed sports action, along with virtually noiseless operation as required for discreet picture taking. 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 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.

*USD is loaded on the A005 (70-300mm) , A007 (24-70mm), A009 (70-200mm) and F004 (90mm).

Stepping Motor

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

*A stepping motor is loaded on the B011 (18-200mm VC).



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 lenses come out of a factory that is well known for delivering on its world-class capabilities, and is widely respected for its unwavering policy of delivering excellent quality products that meet the total satisfaction of its valued customers.

Tamron's Quality Assurance and Environmental Protection Activities

ISO Standards

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

Environment

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

ISO 9001 Quality Control Policy

Provide customer satisfaction by delivering high quality products.

ISO 14001 Environmental Management Philosophy

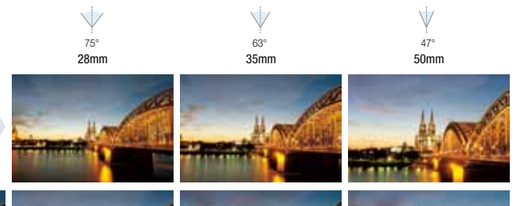
In accordance with its corporate management philosophy, Tamron's goal is to create and deliver superior quality products and services to meet customer needs. Furthermore, each Tamron employee is fully committed to the preservation of the global environment at every level and for each facet of company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

ISO 14001 The Fundamentals of the Environmental Conservation Policy

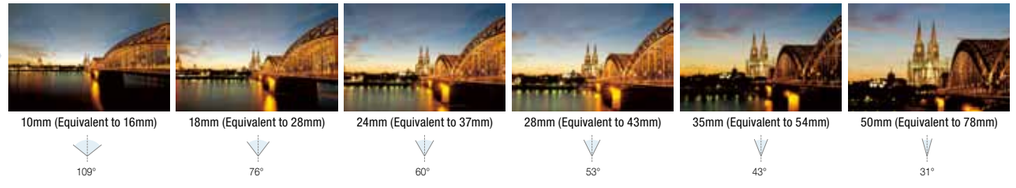
1. Compliance with legislation relevant to environmental conservation
2. Conservation and protection of natural resources
3. Prevention of environmental contamination
4. Continued promotion of an environmental conservation program
5. Promote design philosophy and development of environmentally friendly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

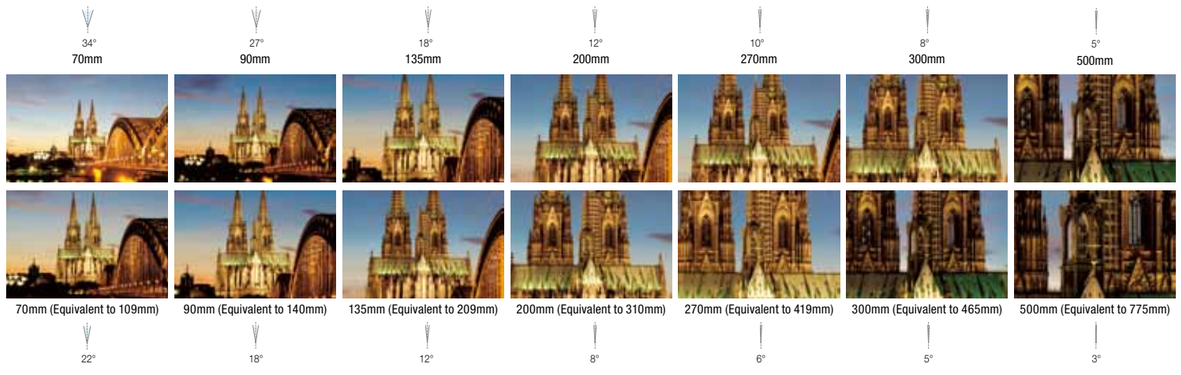
Different Angles of View with Different Focal Lengths

Taken with a full-size camera



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





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.

All-in-One Zoom Lens

MODEL B011 new
18-200mm F/3.5-6.3 Di III VC
for the Sony mirrorless interchangeable-lens camera series
Black/Silver

P.10

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.

All-in-One Zoom Lens

P.12

MODEL B008
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

P.14

MODEL A14
AF18-200mm F/3.5-6.3 XR Di II
LD Aspherical [IF] MACRO
for Nikon, Canon, Sony, Pentax

High-Speed Zoom Lens

P.15

MODEL B005
SP AF17-50mm F/2.8 XR Di II VC
LD Aspherical [IF]
for Nikon, Canon

P.16

MODEL A16
SP AF17-50mm F/2.8 XR Di II
LD Aspherical [IF]
for Nikon, Canon, Sony, Pentax

Macro Lens

P.17

MODEL G005
SP AF60mm F/2 Di II
LD [IF] MACRO 1:1
for Nikon, Canon, Sony

Ultra-Wide-Angle Lens

P.18

MODEL B001
SP AF10-24mm F/3.5-4.5 Di II
LD Aspherical [IF]
for Nikon, Canon, Sony, Pentax

*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.
*For the 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 1.55.

Enter a new and exciting world, with Tamron.

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 assure 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.

High-Speed Zoom Lens

P.20

MODEL A007 new
SP 24-70mm F/2.8 Di VC USD
for Nikon, Canon
SP 24-70mm F/2.8 Di USD
for Sony

P.22

MODEL A09
SP AF28-75mm F/2.8 XR Di
LD Aspherical [IF] MACRO
for Nikon, Canon, Sony, Pentax

All-in-One Zoom Lens

P.23

MODEL A20
AF28-300mm F/3.5-6.3 XR Di VC
LD Aspherical [IF] MACRO
for Nikon, Canon

P.23

MODEL A061
AF28-300mm F/3.5-6.3 XR Di
LD Aspherical [IF] MACRO
for Canon, Sony, Pentax

Telephoto Zoom Lens

P.24

MODEL A009 new
SP 70-200mm F/2.8 Di VC USD
for Nikon, Canon
SP 70-200mm F/2.8 Di USD
for Sony

P.25

MODEL A005
SP 70-300mm F/4-5.6 Di VC USD
for Nikon, Canon
SP70-300mm F/4-5.6 Di USD
for Sony

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MODEL A001
SP AF70-200mm F/2.8 Di
LD [IF] MACRO
for Nikon, Canon, Sony, Pentax

P.26

MODEL A17
AF70-300mm F/4-5.6 Di
LD MACRO
for Nikon, Canon, Sony, Pentax

Ultra-Telephoto Zoom Lens

P.27

MODEL A08
SP AF200-500mm F/5-6.3 Di
LD [IF]
for Nikon, Canon, Sony

Macro Lens

P.28

MODEL F004 new
SP 90mm F/2.8 Di MACRO 1:1 VC USD
for Nikon, Canon
SP 90mm F/2.8 Di MACRO 1:1 USD
for Sony

P.29

MODEL 272E
SP AF90mm F/2.8 Di
MACRO 1:1
for Nikon, Canon, Sony, Pentax

P.29

MODEL B01
SP AF180mm F/3.5 Di
LD [IF] MACRO 1:1
for Nikon, Canon, Sony

Designed to fit digital SLR cameras from major camera makers

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

*Some models are not available for all mounts. Please check the lens specifications on pages 30 - 31 for mount availability.
*Di II Lens Series does not have aperture rings. The Di lens for Nikon with built-in AF motor (NII) does not have aperture rings.
*These mounts are for Di & Di II only and not for Di III.

For Canon AF

For Nikon AF

For Pentax AF

For Sony AF

Di III

For mirrorless interchangeable-lens cameras

Advanced technology is condensed in a small body. The optics use a number of specialized glass elements that successfully compensate for aberrations. You can enjoy taking pictures with a distinct subject and background that have high resolution and contrast.

Focal length: 20mm (Equivalent to 30mm) Exposure: F/18 at 1/160 sec ISO: 200

Equipped with a Vibration Compensation (VC) mechanism allowing stylish handheld photography. Features a high-precision and virtually noiseless stepping autofocus motor, allowing you to achieve the desired focus in a variety of scenes.

Focal length: 50mm (Equivalent to 75mm) Exposure: F/5.6 at 1/100 sec ISO: 500

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. Meanwhile, 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 interchangeable-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.

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

All-in-One Zoom Lens

MODEL B011 new

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

for the Sony mirrorless interchangeable-lens camera series Black/Silver

VC XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.5m (19.7in)

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.

2012 AWARDS TIPA BEST CSC ENTRY LEVEL LENS

Wins TIPA Awards 2012
Best CSC*1 Entry Level Lens
*1 CSC:Compact System Camera

18mm (Equivalent to 27mm)

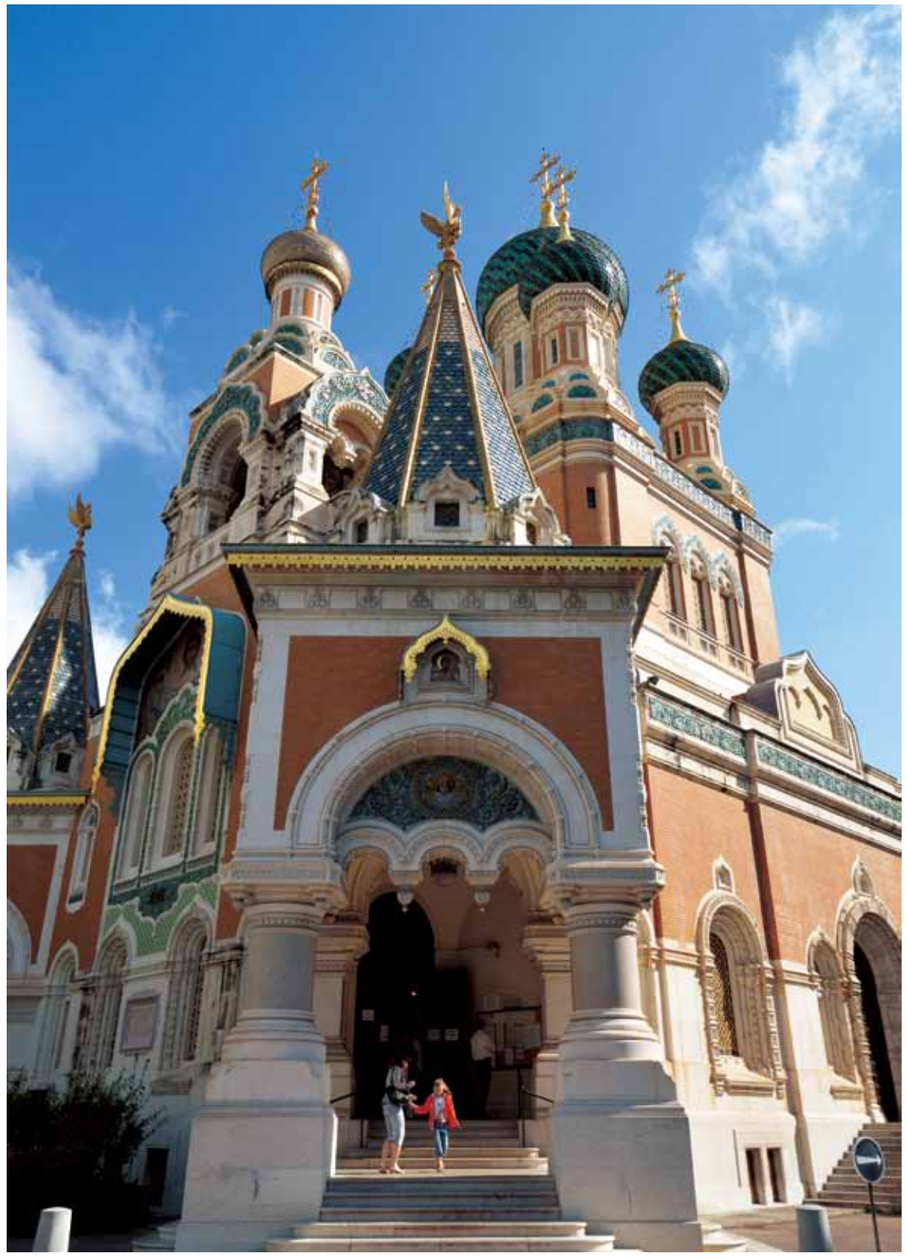
50mm (Equivalent to 75mm)

100mm (Equivalent to 150mm)

200mm (Equivalent to 300mm)

Di II

For APS-C format digital SLR cameras



15x zoom magnification, giving wide coverage from 18mm wide-angle to 270mm super telephoto (35mm size conversion: 28-419mm). Lightweight and compact, and equipped with a Vibration Compensation (VC) system, this all-in-one zoom lens is all you need to handle a variety of scenes.

Focal length: 18mm (Equivalent to 28mm) Exposure: F/8 at 1/250 sec ISO: 200

Equipped with the new Piezo Drive (PZD) autofocus (AF) system, offering smooth, high-speed AF. It can capture split-second movement, ensuring that you never miss a photo opportunity. The motor is silent, allowing discreet picture taking.

Focal length: 270mm (Equivalent to 419mm) Exposure: F/8 at 1/2500 sec ISO: 200

The World's Lightest, Smallest 15x Zoom*[1], with Tamron's First Piezo Drive (PZD)

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.

18mm (Equivalent to 28mm)

270mm (Equivalent to 419mm)

All-in-One Zoom Lens

MODEL B008

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

VC PZD ASL LD AD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.49m (19.3in)

Filter Diameter:ø62mm Length:88mm (3.5in)
Weight:450g (15.9oz.)
*Length is the distance between the mount face and the tip of the lens.

EISA AWARD Best Product 2011-2012 ZOOM LENS Tamron AF 18-270mm F3.5-6.3 Di II VC PZD

Camera GP Japan 2011 レンズ賞 Lens of The Year

Numerous specialized glass elements are used to produce high image quality. These include the Low Dispersion (LD) lens elements that reduce lateral chromatic aberration when using wide-angle lenses and the axial chromatic aberration that compromises sharpness at long focal lengths, as well as the hybrid aspherical lens that compensates for image distortion.
Focal length: 18mm (Equivalent to 28mm) Exposure: F/5.6 at 1/1000 sec ISO: 400

The brightness and sharp picture of a wide F/2.8 aperture, and the stable viewfinder image as a result of the Vibration Compensation (VC) mechanism produce a powerful expression. Tamron's proprietary BBAR (Broad-Band Anti-Reflection) coating helps suppress ghost and flare images.
Focal length: 18mm (Equivalent to 28mm) Exposure: F/2.8 at 1/4 sec ISO: 400

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.

All-in-One Zoom Lens

MODEL A14

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

XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.45m (17.7in)

Filter Diameter:ø62mm Length:83.7mm (3.3in)
Weight:405g (14.3oz.)
*Length is the distance between the mount face and the tip of the lens.

TIPA 2005 — Best Consumer Lens of the Year 2005

AMERICAN PHOTO editor's choice award '05 — The 2005 American PHOTO Editor's Choice Awards

High Speed Plus VC Anti-Shake for Ultimate Image Control

A masterpiece of innovative optical design, this compact, lightweight, high-performance standard zoom (26-78mm 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.

High-Speed Zoom Lens

MODEL B005

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

VC SP XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.29m (11.4in)

Filter Diameter:ø72mm Length:94.5mm (3.7in)
Weight:570g (20.1oz.)
*Length is the distance between the mount face and the tip of the lens.

Outstanding images only possible with a wide F/2.8 aperture lens throughout the entire zoom range are produced with a lightweight, compact body. An all-round lens for when you want to shoot quick snaps with the minimum of hardware.

Focal length: 35mm (Equivalent to 54mm) Exposure: F/2.8 at 1/2000 sec ISO: 200

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.

High-Speed Zoom Lens

MODEL A16

SP AF17-50mm F/2.8 XR Di II

LD Aspherical [IF]
for Nikon, Canon, Sony, Pentax

SP XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.27m (10.6in)

EISA AWARD Best Product 2006-2007 Consumer Lens Tamron SP AF 17–50mm F/2.8 XR Di II LD

Filter Diameter:ø67mm Length:83.2mm (3.3in)
Weight:440g (15.5oz.)
*Length is the distance between the mount face and the tip of the lens.

A macro lens that provides a bright maximum aperture of F/2. This lens enables the expression of delicate macro images with sharp image quality at the point of focus and the soft rendering of out-of-focus areas.

Focal length: 60mm (Equivalent to 93mm) Exposure: F/3.5 at 1/200 sec ISO: 400

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.

Macro Lens

MODEL G005

SP AF60mm F/2 Di II

LD [IF] MACRO 1:1
for Nikon, Canon, Sony

SP LD IF

Minimum focus distance
0.23m (9.1in)

Filter Diameter:ø55mm Length:80mm (3.1in)
Weight:350g (12.3oz.)
*Length is the distance between the mount face and the tip of the lens.

Uses a high-precision glass-molded aspherical lens and three hybrid aspherical lenses to compensate for spherical aberration, coma, and distortion. Delivers high image quality befitting the SP series.
Focal length: 10mm (Equivalent to 16mm) Exposure: F/22 at 1/50 sec ISO: 100

The wide 10-24mm (equivalent to 16-37mm) angle allows you to shoot vast landscapes. Shots that have a sense of perspective, where subjects in the distance appear even further away the wider the angle, are only possible with a wide-angle zoom lens.
Focal length: 10mm (Equivalent to 16mm) Exposure: F/22 at 1/40 sec ISO: 100

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

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

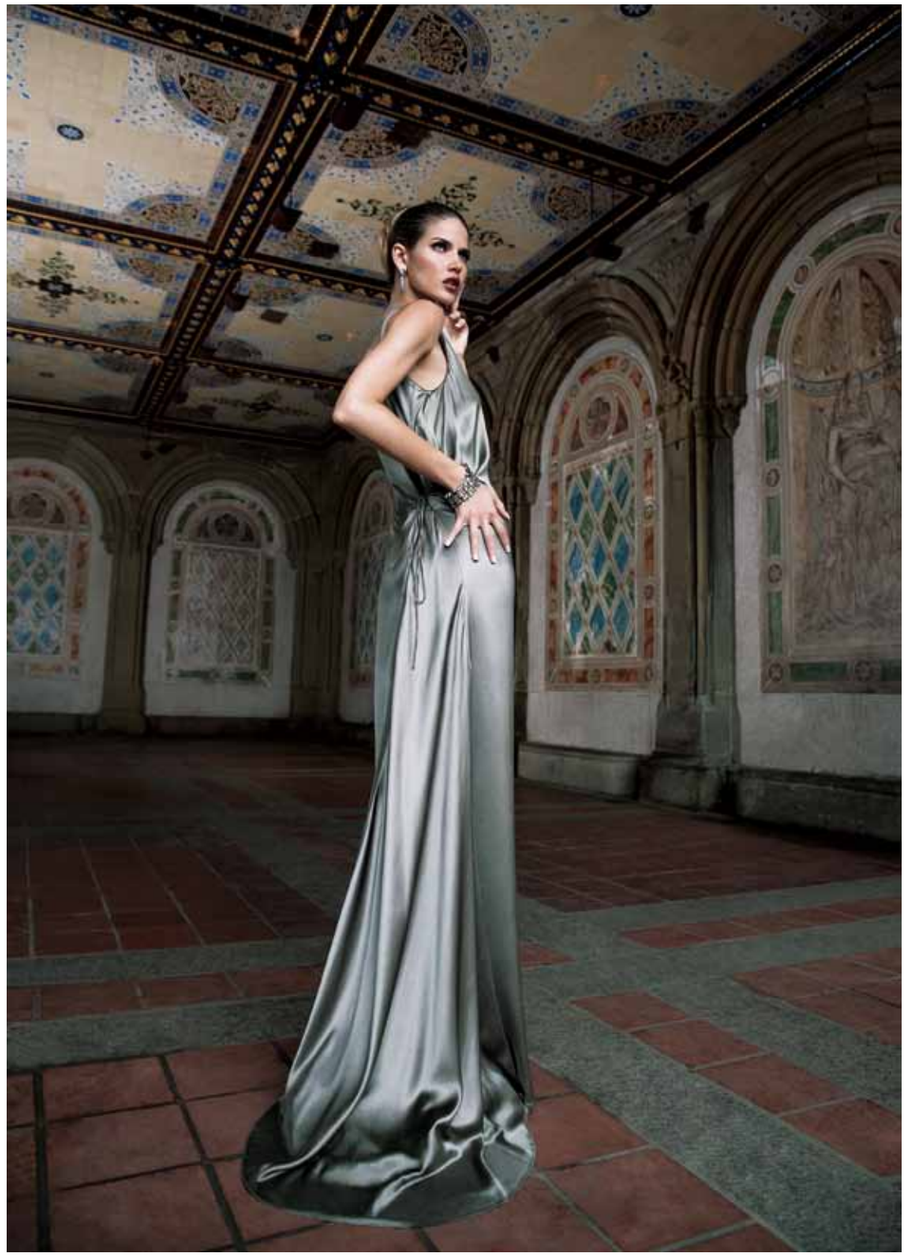
SP ASL LD IF

Minimum focus distance
Throughout the entire zoom range
0.24m (9.4in)

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.

Di

For all SLR cameras



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

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

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.

*1 For high-speed standard zoom lenses compatible with full-size SLR cameras. Current as of November 2012. (Source: Tamron).
*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.
*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 24-70mm F/2.8 Di USD, does not include the VC description.
*Please check camera compatibility information on Di series lenses (with built-in AF motor) for the Sony mount on page 31.

High-Speed Zoom Lens

MODEL A007 new

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

VC USD SP XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.38m (15.0in)

EISA AWARD Best Product 2012-2013 LENS Tamron SP 24-70mm F/2.8 Di VC USD

Filter Diameter:ø82mm Length:108.5mm (4.3in)
Weight:825g (29.1oz.)
*Length is the distance between the mount face and the tip of the lens.

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 sharp, crisp photograph. A large aperture standard zoom lens that broadens your photographic possibilities.
Focal length: 28mm (Equivalent to 43mm) Exposure: F/2.8 at 1/160 sec ISO: 1600

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 Nikon, Canon, Sony, Pentax

SP XR ASL LD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.33m (13.0in)

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.

EISA AWARDS
2003-2004 European Lens of the Year

Equipped with the Vibration Compensation (VC) mechanism, allowing you comfortable handheld photography with stable viewfinder image. You can also try using slower shutter speeds for more sophisticated shooting.
Focal length: 39mm (Equivalent to 60mm) Exposure: F/14 at 1/4 sec ISO: 100

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

All-in-One Zoom Lens

MODEL A20

AF28-300mm F/3.5-6.3 XR Di VC
LD Aspherical [IF] MACRO
for Nikon, Canon

VC XR ASL LD AD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.49m (19.3in)

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.

EISA AWARDS Best Product 2008-2009 CONSUMER LENS

A high-power zoom lens for a full-size camera yet with a lightweight, compact body, this is suitable for carrying with you anywhere. 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.
Focal length: 80mm (Equivalent to 124mm) Exposure: F/4 at 1/40 sec ISO: 100

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
LD Aspherical [IF] MACRO
for Canon, Sony, Pentax

XR ASL LD AD IF ZL

Minimum focus distance
Throughout the entire zoom range
0.49m (19.3in)

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.

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 in a variety of scenes.

Focal length: 121mm Exposure: F/13 at 1/100 sec ISO: 100

A wide-aperture telephoto lens packed into a body that's smallest*1 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*2 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*3 has enabled this lens to achieve spectacular blur effects. For landscapes, sports, fashion, or journalism, the 70-200mm will expand the possibilities of photographic expression.

*1 For high-speed telephoto zoom lenses for full-size SLR cameras, equipped with VC image stabilization and USD. Current as of November 2012. (Source: Tamron)
*2 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 70-200mm F/2.8 Di USD, does not include the VC description.
*3 This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

Telephoto Zoom Lens

MODEL A009 new

SP 70-200mm F/2.8 Di VC USD for Nikon, Canon
SP 70-200mm F/2.8 Di USD for Sony

VC USD SP LD XLD IF

Minimum focus distance
Throughout the entire zoom range
1.3m (51.2in)

Filter Diameter:ø77mm Length:188.3mm (7.4in)
*Length is the distance between the mount face and the tip of the lens.
Weight:1,470g (51.9oz.)
*Includes the weight of the detachable tripod mount.

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.

Focal length: 300mm (Equivalent to 465mm) Exposure: F/5.6 at 1/320 sec ISO: 320

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.
*Please check Nikon camera compatibility information for Di series lenses with built-in AF motors for the Nikon mount on page 30.
*Please check camera compatibility information on Di series lenses (with built-in AF motor) for the Sony mount on page 31.

Telephoto Zoom Lens

MODEL A005

SP 70-300mm F/4-5.6 Di VC USD for Nikon, Canon
SP 70-300mm F/4-5.6 Di USD for Sony

VC USD SP LD XLD IF

Minimum focus distance
Throughout the entire zoom range
1.5m (59.0in)

Filter Diameter:ø62mm Length:142.7mm (5.6in)
Weight:765g (27.0oz.)
*Length is the distance between the mount face and the tip of the lens.

2011 AWARDS TIPA BEST ENTRY LEVEL LENS
TIPA Awards 2011 Best Entry Level Lens

EISA AWARD Best Product 2010-2011 ZOOM LENS Tamron SP70-300mm F4-5.6 Di VC USD

With a wide F/2.8 aperture throughout the entire zoom range, this telephoto zoom lets you take pictures with a distinct subject and background, softening background details, so the subject clearly stands out. The weight has been reduced, allowing it to be used to photograph a variety of scenes, such as nature, sports, and portraits.

Focal length: 123mm (Equivalent to 191mm) Exposure: F/2.8 at 1/4000 sec ISO: 400

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 best 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 one-touch switchover function is available on Nikon and Canon mounts only. The Sony and the Pentax mounts require switchover in two steps.
*Please check Nikon camera compatibility information for Di series lenses with built-in AF motors for the Nikon mount on page 30.

Telephoto Zoom Lens

MODEL A001

SP AF**70-200**mm F/2.8 Di

LD [IF] MACRO
for Nikon, Canon, Sony, Pentax

SP LD IF

Minimum focus distance
Throughout the entire zoom range
0.95m (37.4in)

Filter Diameter:ø77mm Length:194.3mm (7.6in)
*Length is the distance between the mount face and the tip of the lens.
Weight:1,320g (46.6oz.)
*Included the weight of the detachable tripod mount.

A lightweight, compact design that covers a super-telephoto range of 500mm, allowing you to easily shoot faraway objects that are not discernible to the human eye. Delivering high-resolution performance, the lens renders images that are sharp from center to edge.

Focal length: 295mm (Equivalent to 457mm) Exposure: F/5.6 at 1/400 sec ISO: 400

This small, lightweight, and high-image-quality telephoto zoom makes it easy to capture fast-moving scenes anywhere, whether shooting vacation photos or casual snaps. Allowing macro shooting with up to1:2 magnification, it expands the possibilities of photographic expression.

Focal length: 195mm Exposure: F/5.6(+2) at 1/10 sec ISO: 250

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.

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

Telephoto Zoom Lens

MODEL A17

AF**70-300**mm F/4-5.6 Di

LD MACRO
for Nikon, Canon, Sony, Pentax

LD

Minimum focus distance
1.5m (59.0in)/ 0.95m (37.4in) macro

Filter Diameter:ø62mm Length:116.5mm **(4.6in)**
Weight:458g (16.2oz.)
*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.

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 PL filter compensation. You can confirm the Polarizing effect through the viewfinder, all while using the hood to prevent harmful light from entering the lens.

Ultra-Telephoto Zoom Lens

MODEL A08

SP AF**200-500**mm F/5-6.3 Di

LD [IF]
for Nikon, Canon, Sony

SP LD IF ZL

Minimum focus distance
Throughout the entire zoom range
2.5m (98.4in)

Filter Diameter:ø86mm Length:224.5mm (8.8in)
*Length is the distance between the mount face and the tip of the lens.
Weight:1,291g (45.5oz.)
*Includes the weight of the detachable tripod mount.

With a maximum magnification ratio of 1:1, which lets you reproduce a life-size image of the subject on the image sensor, this lens is also suited to close-up photography of small objects.

Focal length: 90mm Exposure: F/2.8 at 1/500 sec ISO: 400

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*1, Ultrasonic Silent Drive (USD) motor, and new advanced optical design. It uses two Extra Low Dispersion (XLD) glass elements made from specialized, 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*2 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.

*1 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 90mm F/2.8 Di MACRO 1:1 USD, does not include the VC description.
*2 This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

Macro Lens

MODEL F004 new

SP 90mm F/2.8 Di MACRO 1:1 VC USD for Nikon, Canon
SP 90mm F/2.8 Di MACRO 1:1 USD for Sony

VC USD eBAND Coating SP LD XLD IF

Minimum focus distance 0.3m (11.8 in)

Filter Diameter:ø58mm Length:114.5mm (4.5in)
Weight:550g (19.4oz.)
*Length is the distance between the mount face and the tip of the lens.

Top: The shortest shooting distance is 0.29m. Allows you to produce beautiful soft blur effects.
Focal length: 90mm (Equivalent to 140mm) Exposure: F/2.8 at 1/500 sec ISO: 100

Bottom: Soft blur effects and sharp images make it great to use as a portrait lens too.
Focal length: 90mm (Equivalent to 140mm) Exposure: F/10 at 1/60 sec ISO: 200

An Enhanced Version of the Classic "Portrait Macro"

An enhanced version of the venerable Tamron 90mm Macro, this lens is widely used by naturalists and other pros who need top imaging performance plus a longer lens-to-subject (working) distance to enable easier lighting and access to skittish subjects. Improved resolution, chromatic correction, and coatings make it a superb choice for full-frame or APS-C format SLRs.

*The one-touch switchover function is available on Nikon and Canon mounts only. The Sony and the Pentax mounts require switchover in two steps.
*Please check Nikon camera compatibility information for Di series lenses with built-in AF motors for the Nikon mount on page 30.

Macro Lens

MODEL 272E

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

SP

Minimum focus distance 0.29m (11.4in)

Filter Diameter:ø55mm Length:97mm (3.8in)
Weight:400g (14.1oz.)
*Length is the distance between the mount face and the tip of the lens.

This lens makes it possible to capture small, inapproachable subjects, even from a distance, and permits shooting at 1:1 with blur effects uniquely possible with a telephoto macro lens.
Focal length: 180mm (Equivalent to 279mm) Exposure: F/22 at 1/200 sec ISO: 100

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 one-touch switchover function is available on Nikon and Canon mounts only. The Sony mount requires switchover in two steps.

Macro Lens

MODEL B01

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

SP LD IF

Minimum focus distance 0.47m (18.5in)

Filter Diameter:ø72mm Length:165.7mm (6.5in)
*Length is the distance between the mount face and the tip of the lens.
Weight:985g (34.7oz.)
*Includes the weight of the detachable tripod mount.

Lens Specifications

	MODEL	LENSES	FOCAL LENGTH (mm)	MAXIMUM APERTURE (F)	LENS CONSTRUCTION (Groups/ Elements)	ANGLE OF VIEW *Figures when used on APS-C sized digital cameras shown in parentheses. Diagonal	Horizontal	Vertical	TYPE OF ZOOMING	DIAPHRAGM BLADES	MINIMUM APERTURE (F)	MINIMUM FOCUS in. (m)	MAX MAG. RATIO	FILTER SIZE (ømm)	WEIGHT OZ. (g)	DIAMETER x LENGTH in. (mm) *ENTIRE LENGTH in. (mm)	ACCESSORY Lens Hood	ACCESSORY Case	MOUNT For Nikon(See Note)	MOUNT For Canon	MOUNT For Sony	MOUNT For Pentax	REMARKS
Di III for mirrorless interchangeable-lens cameras	**B011**	**18-200mm F/3.5-6.3 Di III VC**	18-200	3.5-6.3	13-17	76°10′-8°03′	66°16′-6°43′	46°51′-4°27′	ROTATION	7	22	19.7(0.5) Throughout the entire zoom range	1:3.7	62	16.2 (460)	ø2.7x3.8(ø68x96.7) *4(102)	◎ HB011		For the Sony mirrorless interchangeable-lens camera series		○		new Black/Silver
Di II for APS-C fomat digital SLR cameras	**B001**	**SP AF10-24mm F/3.5-4.5 Di II** LD Aspherical [IF]	10-24	3.5-4.5	9-12	108°44′-60°20′	98°28′-51°36′	75°19′-35°29′	ROTATION	7	22	9.4 (0.24) Throughout the entire zoom range	1:5.1	77	14.3 (406)	ø3.3x3.4(ø83.2x86.5) *3.7(94.9)	◎ AB001		● 〈N II〉	○	○	○	
	B005	**SP AF17-50mm F/2.8 XR Di II VC** LD Aspherical [IF]	17-50	2.8	14-19	78°45′-31°11′	68°37′-26°07′	49°01′-17°22′	ROTATION	7	32	11.4 (0.29) Throughout the entire zoom range	1:4.8	72	20.1 (570)	ø3.1x3.7(ø79.6x94.5) *4(102.9)	◎ AB003		● 〈N II〉	○			
	A16	**SP AF17-50mm F/2.8 XR Di II** LD Aspherical [IF]	17-50	2.8	13-16	78°45′-31°11′	68°37′-26°07′	49°01′-17°22′	ROTATION	7	32	10.6 (0.27) Throughout the entire zoom range	1:4.5	67	15.5 (440)	ø2.9x3.3(ø73.8x83.2) *3.6(92.6)	◎ DA09		● 〈N II〉	○	○	○	
	A14	**AF18-200mm F/3.5-6.3 XR Di II** LD Aspherical [IF] MACRO	18-200	3.5-6.3	13-15	75°33′-7°59′	65°36′-6°38′	46°21′-4°15′	ROTATION	7	22	17.7 (0.45) Throughout the entire zoom range	1:3.7	62	14.3 (405)	ø2.9x3.3(ø73.8x83.7) *3.6(92.1)	◎ AD06		● 〈N II〉	○	○	○	
	B008	**18-270mm F/3.5-6.3 Di II VC PZD*1**	18-270	3.5-6.3	13-16	75°33′-5°55′	65°36′-4°55′	46°21′-3°10′	ROTATION	7	22	19.3 (0.49) Throughout the entire zoom range	1:3.8	62	15.9 (450)	ø2.9x3.5(ø74.4x88) *3.8(96.4)	◎ DA18		● 〈N〉	○	○ *1		
	G005	**SP AF60mm F/2 Di II** LD [IF] MACRO 1:1	60	2	10-14	26°11′	21°53′	14°25′	–	7	22	9.1 (0.23)	1:1	55	12.3 (350)	ø2.9x3.1(ø73x80) *3.5(88.2)	○ HG005		● 〈N II〉	○	○		
Di for all SLR cameras	**A007**	**SP 24-70mm F/2.8 Di VC USD*1**	24-70	2.8	12-17	84°04′-34°21′ (60°20′-22°33′)	73°44′-28°51′ (51°36′-18°49′)	53°05′-19°16′ (35°29′-12°22′)	ROTATION	9	22	15.0 (0.38) Throughout the entire zoom range	1:5	82	29.1 (825)	ø3.5x4.3(ø88.2x108.5) *4.6(116.9)	◎ HA007		● 〈N〉	○	○ *1		new Sony mount to be released.
	A09	**SP AF28-75mm F/2.8 XR Di** LD Aspherical [IF] MACRO	28-75	2.8	14-16	75°23′-32°11′ (52°58′-21°04′)	65°28′-26°59′ (45°0′-17°35′)	46°15′-18°07′ (30°34′-11°29′)	ROTATION	7	32	13.0 (0.33) Throughout the entire zoom range	1:3.9	67	18.0 (510)	ø2.9x3.6(ø73x92) *4(100.5)	◎ DA09		● 〈N II〉	○	○	○	Do not attach 2X tele-converters.
	A20	**AF28-300mm F/3.5-6.3 XR Di VC** LD Aspherical [IF] MACRO	28-300	3.5-6.3	13-18	75°23′-8°15′ (52°58′-5°20′)	65°28′-6°52′ (45°0′-4°26′)	46°15′-4°21′ (30°34′-2°35′)	ROTATION	9	22	19.3 (0.49) Throughout the entire zoom range	1:3	67	19.6 (555)	ø3.1x3.9(ø78.1x99) *4.2(107.4)	◎ DA20		● 〈N II〉	○			
	A061	**AF28-300mm F/3.5-6.3 XR Di** LD Aspherical [IF] MACRO	28-300	3.5-6.3	13-15	75°23′-8°15′ (52°58′-5°20′)	65°28′-6°52′ (45°0′-4°26′)	46°15′-4°21′ (30°34′-2°35′)	ROTATION	9	22	19.3 (0.49) Throughout the entire zoom range	1:2.9	62	15.3 (435)	ø2.9x3.4(ø73x85.7) *3.6(91.2)	◎ AD06			○	○	○	Length, entire length and weight figures are for Sony mount.
	A009	**SP 70-200mm F/2.8 Di VC USD*1**	70-200	2.8	17-23	34°21′-12°21′ (22°33′-7°59′)	28°51′-10°17′ (18°49′-6°38′)	19°16′-6°31′ (12°22′-4°15′)	ROTATION	9	32	51.2 (1.3) Throughout the entire zoom range	1:8	77	51.9 (1,470)	ø3.3x7.4(ø85.8x188.3) *7.7(196.7)	◎ HA001		● 〈N〉	○	○ *1		new Detachable tripod mount. Nikon and Sony mounts to be released sequentially.
	A001	**SP AF70-200mm F/2.8 Di** LD [IF] MACRO	70-200	2.8	13-18	34°21′-12°21′ (22°33′-7°59′)	28°51′-10°17′ (18°49′-6°38′)	19°16′-6°31′ (12°22′-4°15′)	ROTATION	9	32	37.4 (0.95) Throughout the entire zoom range	1:3.1	77	46.6 (1,320)	ø3.5x7.6(ø89.5x194.3) *8(202.6)	◎ HA001	○	● 〈N II〉	○	○	○	Detachable tripod mount. Pentax mount dose not have an apeture ring.
	A005	**SP 70-300mm F/4-5.6 Di VC USD*1**	70-300	4-5.6	12-17	34°21′-8°15′ (22°33′-5°20′)	28°51′-6°52′ (18°49′-4°26′)	19°16′-4°21′ (12°22′-2°35′)	ROTATION	9	32	59.0 (1.5) Throughout the entire zoom range	1:4	62	27.0 (765)	ø3.2x5.6(ø81.5x142.7) *5.9(151.1)	◎ HA005		● 〈N II〉	○	○ *1		
	A17	**AF70-300mm F/4-5.6 Di** LD MACRO	70-300	4-5.6	9-13	34°21′-8°15′ (22°33′-5°20′)	28°51′-6°52′ (18°49′-4°26′)	19°16′-4°21′ (12°22′-2°35′)	ROTATION	9	32	59.0 (1.5) 37.4 (0.95)/Macro	1:2	62	16.2 (458)	ø3.0x4.6(ø76.6x116.5) *4.9(124.9)	○ DA17		● 〈N II〉	○	○	○	
	A08	**SP AF200-500mm F/5-6.3 Di** LD [IF]	200-500	5-6.3	10-13	12°21′-4°57′ (7°59′-3°12′)	10°17′-4°07′ (6°38′-2°39′)	6°31′-2°27′ (4°15′-1°28′)	ROTATION	9	32	98.4 (2.5) Throughout the entire zoom range	1:5	86	45.5 (1,291)	ø3.7x8.8(ø93.5x224.5) *9.2(232.9)	○ DA08	○	○ 〈N〉	○	○		Detachable tripod mount / Filter Effect Control.
	F004	**SP 90mm F/2.8 Di MACRO 1:1 VC USD*1**	90	2.8	11-14	27°02′ (17°37′)	22°37′ (14°41′)	15°06′ (9°31′)	–	9	32	11.8 (0.3)	1:1	58	19.4 (550)	ø3.0x4.5(ø76.4x114.5) *4.8(122.9)	○ HF004		● 〈N〉	○	○ *1		new Nikon and Sony mounts to be released sequentially.
	272E	**SP AF90mm F/2.8 Di** MACRO 1:1	90	2.8	9-10	27°02′ (17°37′)	22°37′ (14°41′)	15°06′ (9°31′)	–	9	32	11.4 (0.29)	1:1	55	14.1 (400)	ø2.8x3.8(ø71.5x97) *4.1(105.4)	○ 2C9FH	○	● 〈N II〉	○	○	○	With tele-converters, use manual focus.
	B01	**SP AF180mm F/3.5 Di** LD [IF] MACRO 1:1	180	3.5	11-14	13°42′ (8°52′)	11°25′ (7°22′)	7°23′ (4°34′)	–	7	32	18.5 (0.47)	1:1	72	34.7 (985)	ø3.3x6.5(ø84.8x165.7) *6.9(174.1)	○ DB01	○	○ 〈N〉	○	○		Detachable tripod mount.

*Length is the distance between the mount face and the tip of the lens. Entire length is the distance between the tip of the lens and the tip of the protrusion. Figures for Length, Entire length and Weight, excluding those for the A061, are for the Nikon mount. ◆: Includes the weight of the detachable tripod mount. ◎: Indicates a flower shaped hood.

*1 The Sony mounts (B008, A007, A009, A005, and F004) do not include the VC image stabilization functionality, as Sony digital SLR camera bodies include image stabilization functionality. Consequently, the names of the Sony mount lenses, such as 18-270mm F/3.5-6.3 Di II PZD (for the B008) and SP24-70mm F/2.8 Di USD (for the A007), do not include the VC description.

Hybrid Aspherical Lens　LD element　AD element　XR (Extra Refractive index) glass　Glass Molded Aspherical Lens　XLD (Extra Low Dispersion) glass

Note: Because Nikon mounts may/may not have built-in AF motors, please refer to this table for the model in question.

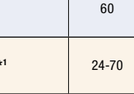
● AF motor is built-in for Nikon II models. Please refer to the table for "[Compatibility of Di series with built-in AF motor for Nikon with Nikon cameras]". Aperture ring is not equipped.

○ AF motor is not built-in on Nikon model. When Nikon models are used with D40, D40X, D60, D3000, D3100, D5000 and D5100, the lenses function only in the manual focus mode.

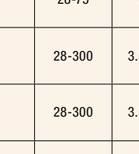
*The lens for Nikon/Sony is "D" compatible.

Lens Hoods

All Tamron lenses come with lens hoods as standard. Even for shallow hoods based on the short end of a zoom's focal range, Tamron hoods are designed to produce ample light shielding effects. Tamron also uses flower shaped hoods for models that employ internal focusing, including wide angle lenses. Flower-shaped hoods remove the parts of the hood that would otherwise show up in the corners of the frame, and conversely extend the hood length to its limits where possible elsewhere, such as the portions covering the long sides of the frame. This design produces hoods that exhibit superb light shielding effects, offering ample protection from stray light even at the telephoto end of high-magnification zooms.



Conceptual diagram of a flower shaped hood



[Nikon camera compatibility information for Di series lenses with built-in AF motors for the Nikon mount]

■ The AF mode does not function when the Nikon mount with built-in AF motor is used with the early AF cameras. Only the MF mode is available.

Cameras	AF	MF
F60D, F50D, F-801 series, F-601, F-501, F-401 series, F90(X) series, F4 series, F5, F70D, Us, FUJIFILM FinePix S1 Pro, MF Cameras	×	○
KODAK DCS Pro 14n, F3AF	×	×

■ Di series Nikon mount lenses with built-in AF motors cannot be used with the cameras indicated at right.

Cameras	
Pronea 600i, Pronea S	×

■ Di series Nikon mount lenses with built-in AF motors are not equipped with aperture rings. Accordingly, there may be some limitations and restrictions upon use. For details, please refer to the following table.

Cameras	P *	S	A	M
F4, F90X, F90XS, F90XD, F90, F90S, F90D, F70D, F801, F801S, F601M	○	○	×	×
F3AF, F601, F501, MF Camera (Except F-601M)	×	×	×	×

○: Compatible ×: Not compatible * : P includes "auto" mode and "image programming" mode.

[Camera compatibility information for Di series lenses (with built-in AF motors) for the Sony mount]

The A005 for Sony, in addition to the A007 for Sony, A009 for Sony, and F004 for Sony scheduled to be launched in sequence

■ The AF mode on the above Di series models, because of their built-in AF motor, may not function in certain early film SLR cameras. Only the MF mode is available.

Cameras	AF	MF
α-7, α-9, α-70, Dynax 3L, Dynax 7, Dynax 9, Maxxum 7, Maxxum 9, Maxxum 70, Maxxum 3Date	○	○
α-SweetIII,, α-SweetII, α-Sweet, α-807Si, α-507Si, α-707Si, α-9Xi, Dynax 4, Dynax 3, Dynax 5, Dynax 505Si Super, Dynax 800Si, Dynax 600Si Classic,Dynax 700Si, Dynax 9Xi, Maxxum 4, Maxxum 5, Maxxum Xtsi, Maxxum 600si, Maxxum 700si	×	○

*Only the α-9 models that have been modified to allow lenses with built-in AF motors can be used.
*The A005 for Sony mount cannot be used with film AF SLR cameras not listed.

■ There may be some limitations and restrictions on the use of the Di series lenses for Sony described above. For details, please refer to the following table.

Cameras	P	S	A	M
α-7, α-9, α-70, α -SweetIII,, α -SweetII, α -Sweet, α -807Si, α -507Si, α -707Si, α -9Xi, Dynax 7, Dynax 9, Dynax 4, Dynax 3, Dynax 5, Dynax 505Si Super, Dynax 800Si, Dynax 600Si Classic, Dynax 700Si, Dynax 9Xi, Maxxum 7, Maxxum 9, Maxxum 70, Maxxum 4, Maxxum 5, Maxxum Xtsi, Maxxum 600si, Maxxum 700si	○	○	○	○
Dynax 3L, Maxxum 3Date	○	×	×	×

○: Compatible ×: Not compatible　*The A005 for Sony mount cannot be used with film AF SLR cameras not listed.

NOTE: When using Continuous AF (AF-C) Mode on B011

- Due to an inherent characteristic of this TAMRON lens, when using the Sports Action mode on Scene Selection, the continuous operation of the focus search function may cause some fluctuation in the LCD monitor image. However, this will not cause problems in photos taken in this situation.
- In other Shoot Modes (P, A, S, M), when the focus mode is set to Continuous AF (AF-C), the same condition may also arise. This will also not cause problems in photos taken in this situation. *As an alternative to either of the above settings, you can change the focus mode to Single-shot AF (AF-S) or Direct Manual Focus (DMF) and continue shooting.

[Model A20 Attention in the use and compatibility]

If you are using the AF28-300mm Di VC (Model A20) with built-in AF motor, please be aware of the following information.

- When 28-300mm Di VC (Model A20) for Canon is used in combination with some EOS Series (film) cameras, the VC function may not work. 100QD, 10QD, 850, 750QD, 650, 620, 630QD.
- When the 28-300mm Di VC (Model A20) for Nikon is used in combination with the following cameras, the VC mechanism does not function: F4, F401s, F5, F50, F501, F60, F801s, F90X, and all the MF cameras.
- The 28-300mm Di VC (Model A20) for Nikon cannot be mounted on the KODAK DCS Pro14n.

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.

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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.

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