Lenses for Digital Cameras and Video Cameras

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

■ IP/CCTV Lenses

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

Lenses for Long Wavelength Infrared Cameras

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

Lenses for Automotive Applications

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

Optical Devices

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



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

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www.tamron.com



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.





LENS CATALOGUE







Designed in every aspect to satisfy the sensibilities of photographers

By fusing its innovative technologies with traditional craftsmanship, Tamron has sought to produce lenses that allow you to capture a wide array of scenes in high definition. Our cutting-edge ultra-high-power zoom covers the 16-300mm focal range and is the first in the world* to achieve a zoom magnification ratio of approximately 18.8 times. Proprietary technologies including an optical design and coatings optimized for digital characteristics, VC (Vibration Compensation) and a PZD (Piezo Drive) standing wave ultrasonic motor have been condensed into a new elegantly refined, compact and lightweight body.

Combining a wide range of shooting scenarios with high definition, high performance and high quality, this lens will continue to open up new possibilities in photographic expression.

*Among interchangeable lenses for DSLR cameras (as of June 13, 2014; source: Tamron)

Di series for digital SLR cameras

All-in-One Zoom Lens	28-300mm F/3.5-6.3 Di VC PZD (Model A010) 10 AF28-300mm F/3.5-6.3 XR Di (Model A061) 11
High-Speed Zoom Lens	SP 24-70mm F/2.8 Di VC USD (Model A007) 13 SP AF28-75mm F/2.8 XR Di (Model A09) 14
Telephoto Zoom Lens	SP 70-200mm F/2.8 Di VC USD (Model A009) 17 SP AF70-200mm F/2.8 Di (Model A001) 17 SP 70-300mm F/4-5.6 Di VC USD (Model A005) 18 AF70-300mm F/4-5.6 Di (Model A17) 18
Ultra-Telephoto Zoom Lens	SP 150-600mm F/5-6.3 Di VC USD (Model A011) •••••••19
Macro Lens	SP 90mm F/2.8 Di MACRO 1:1 VC USD (Model F004) 20 SP AF90mm F/2.8 Di MACRO 1:1 (Model 272E) 21 SP AF180mm F/3.5 Di MACRO 1:1 (Model B01) 21

Dill series for APS-C format digital SLR cameras

	16-300mm F/3.5-6.3 Di II VC PZD MACRO (Model B016) • • • • 09
All-in-One Zoom Lens	18-270mm F/3.5-6.3 Di II VC PZD (Model B008) · · · · · · · · · 11
	AF18-200mm F/3.5-6.3 XR Di II (Model A14) · · · · · · · · · · 11
High-Speed Zoom Lens	SP AF17-50mm F/2.8 XR Di II VC (Model B005) ·····14
Tigh-opeed 20011 Lens	SP AF17-50mm F/2.8 XR Di II (Model A16)14
Ultra-Wide-Angle Lens	SP AF10-24mm F/3.5-4.5 Di II (Model B001) • • • • • • • • 15
Macro Lens	SP AF60mm F/2 Di II MACRO 1:1 (Model G005)

Di III series for mirrorless interchangeable-lens cameras

| 14-150mm F/3.5-5.8 Di III (Model C001) · · · · · · · · · 12 All-in-One Zoom Lens



16-300mm F/3.5-6.3 Di II VC PZD MACRO Model B016



PZD (Piezo Drive) / Advanced ultrasonic AF motor

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

Broadening the possibilities of photographic expression with

TAMRON LENS TECHNOLOGIES



Compatibility with cameras: Di Di II Di III

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

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

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

LD (Low Dispersion) Glass for Greater Lens Sharpness 💿

LD (Low Dispersion) glass elements in a lens help reduce chromatic 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)

XLD (Extra Low Dispersion) Lens

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

Super Performance for Discriminating Shooters (SP)

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

AD (Anomalous Dispersion) for Better Color Correction

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



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

Hybrid Aspherical Elements Provide the Ultimate in Image Quality and Compactness

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



Compensation effect with an appherical lens element (schematic diagram)

Special Glass for Better Performance and More Compact Lens Designs



By minimizing the overall length of the optical system, Tamron has succeeded in drastically reducing lens diameter and reducing overall lens size for the same focal length and same maximum F-number. By utilizing XR (Extra Refractive Index) glass, Tamron has achieved a compact size together with good correction of aberrations while maintaining the optimum balance of overall optical power. Moreover, through the active utilization of UXR (Ultra-Extra Refractive Index) glass, Tamron has developed even more compact designs while achieving good correction of aberrations.

Principles enabling more compact sizes at the same lens brightness

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.



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.

eBAND

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

Schematic Diagram



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

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

Tamron uses advanced multi-coating techniques to suppress reflections and light dispersion on lens element surfaces that result in reduced light transmission and may, under adverse conditions, cause flare and ghost images that reduce contrast and can diminish image quality. The BBAR

(Broad-Band Anti-Reflection) multiple-layer coating technique also helps to provide the best possible color balance for vibrant and accurate color rendition. Tamron has developed an improved proprietary version of BBAR multi-coating that successfully increases light transmission in both longer and shorter wavelengths.

Moisture-resistant Construction

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

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



For Model A007

<Moisture-resistant construction diagram>

TAMRON LENS TECHNOLOGIES

IF (Internal Focusing) System

IF (Internal Focusing) provides numerous practical benefits to photographers including a non-rotating front filter ring that facilitates the positioning of polarizing and graduated filters, and more predictable handling because the lens length does not change during focusing. Even more important, Tamron's IF system provides a much closer Minimum 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.

ZL (Zoom Lock) Feature

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



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

The manufacture of compact, high-guality, 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.

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

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

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

Taken under the same conditions using a vibrating table





Stepping Motor

The stepping motor's actuator allows finely tuned control of angular rotation, and since it drives the focusing mechanism directly without an intermediate reduction gear, it also provides superbly quiet performance. *A stepping motor is loaded on the B011 (18-200mm VC). C001 (14-150mm).



PZD (Piezo Drive)

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

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

PZD Unit Diagram



USD (Ultrasonic Silent Drive)

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

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





10mm (Equivalent to 16mm) 🛷 16mm (Equivalent to 25mm) 😿 18mm (Equivalent to 28mm) 🐨 24mm (Equivalent to 37mm) 🐼 28mm (Equivalent to 43mm) 🕼 50mm (Equivalent to 54mm)

70mm (Equivalent to 109mm) 👘 90mm (Equivalent to 140mm) 👘 150mm (Equivalent to 233mm) 👘 200mm (Equivalent to 310mm) 👘 270mm (Equivalent to 419mm) 👘 300mm (Equivalent to 465mm) ⊉ 600mm (Equivalent to 930mm)

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 guality 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





MODEL B016 Focal length: 16mm (Equivalent to 25mm) Exposure: F/9 at 1/160 sec ISO: 400

All-in-One Zoom Lens

Di II



New MODEL B016

16-300mm F/3.5-6.3 Di II VC PZD MACRO for Nikon, Canon 16-300mm F/3.5-6.3 Di II PZD MACRO for Sony¹¹

An amazing approx. 18.8x zoom covering 16mm at the wide end to 300mm at the super-telephoto end

A pioneering, innovative developer of high-power zoom lenses, Tamron delivers the ultimate in high-power zoom lenses. With unprecedented focal range of 16mm at the wide end to 300mm at the super-telephoto end, along with VC (Vibration Compensation) and a comfortable PZD (Piezo Drive) autofocusing, Tamron has achieved a compact body size. Ideal also for macro photography, the lens sports a minimum focusing distance of 0.39m (maximum image magnification of 1:2.9). Thoroughly compensating for aberrations with three glass molded aspherical elements, two LD elements, one UXR element and other specialized glass elements, and featuring the latest coating technologies to dramatically inhibit flare and ghosting, Tamron has delivered a breakthrough in sharp picture quality.



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

Di II for APS-C format digital SLR cameras

B016 Different Angles of View

Approx. 18.8x magnification is attained



n (Equivalent to 25mm

Capturing a wide view at 16 mm









Lens Construction : 16 elements in 12 groups Filter Size : ø67mm Length : 99.5mm (3.9in) Weight : 540g (19.0oz) imum Focus Distance : 0.39m (15.3in)



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



New MODEL A010

28-300mm F/3.5-6.3 Di VC PZD for Nikon, Canon 28-300mm F/3.5-6.3 Di PZD for Sonv¹¹

A high-power zoom lens for full-size SLR with enhanced image guality, compactness and lightweight features

More than two decades have passed since the revolutionary 28-200mm high power zoom lens, the Model 71D, hit the market. In response to the widespread use of full-sized digital SLR cameras, this high power zoom lens now comes with even more sophisticated features. It adopts three Molded-Glass Aspherical elements, four LD elements, one UXR element, and other specialized glass elements for excellent correction of different aberrations. The result is superior image performance with a smaller lens unit. It is also equipped with a PZD standing-wave ultrasonic motor for faster autofocus and noise reduction, together with a VC (Vibration Compensation) that effectively corrects camera shaking that can occur under poor light conditions or in the telephoto range. The result is a much easier handheld shooting experience.



A010 Different Angles of View Approx. 10.7x magnification is attained.











Lens Construction : 19 elements in 15 group Filter Size : ø67mm Length · 96mm (3.8in) Weight : 540g (19.0oz) Minimum Focus Distance : 0.49m (19.3in) (Throughout the entire 70)



MODEL B008 Focal length: 18mm (Equivalent to 28mm) Exposure: F/20 at 1/160 sec ISO: 200

All-in-One Zoom Lens



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"

A high-power zoom lens featuring VC and PZD, producing a 15x zoom covering 18mm to 270mm in a lightweight, compact body. Achieves by the sharp, clear picture quality, enhancing your power of photographic expression.

PZD ASL LD AD (IF) ZL

for Nikon, Canon, Sony, Pentax

MODEL B008







performance. XR ASL LD (IF) ZL

for Sony, Pentax

An all-rounder high-power zoom lens, fit for everything from super-telephoto to full-fledged macro shooting. LD, AD and XR elements mean stellar rendering performance across the entire zoom range.



MODEL A061

*1 The Sonv mount does not include the VC image stabilization functionality, as Sonv digital SLR camera bodies include image stabilization functionality, *Length is the distance between the mount face and the tip of the lens, Lens Construction Hybrid Aspherical Lens Lo element XLD (Extra Low Discersion) glass Applement XR (Extra Refractive Index) glass UXR (Ultra-Extra Refractive Index) glass Molded-Glass Aspherical Lens

Di for all SLR cameras



Di for all SLR cameras Di II for APS-C format digital SLR cameras





AF18-200mm F/3.5-6.3 XR Di II LD Aspherical [IF] MACRO

A high-power zoom lens that features exceptional mobility in a compact design, producing 11.1x zoom that enables the shooting of myriad scenes, from wide angle to telephoto in a single lens. Corrects aberrations effectively to deliver high rendering











Lens Construction : 16 elements in 13 groups Filter Size : ø62mm Length : 88mm (3.5in) Weight : 450g (15.9oz) Minimum Focus Distance : 0.49m (19.3in)



Lens Construction : 15 elements in 13 groups Filter Size : Ø62mm Lenath : 83.7mm (3.3in) Veight : 405g (14.3oz) Minimum Focus Distance : 0.45m (17.7in) uphout the entire zoom ran



Lens Construction : 15 elements in 13 groups Filter Size : ø62mm Length : 85.7mm (3.4in) Weight : 435g (15.3oz) Minimum Focus Distance : 0.49m (19.3in) (Throughout the entire zoom range)



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

All-in-One Zoom Lens

Di III





Di III

MODEL C001

MODEL B011





14-150mm F/3.5-5.8 Di III for Micro Four Thirds System A high power zoom lens for the Micro Four Thirds System

helps swiftly capture different views at the angle of field you choose

A 10.7x high power zoom lens covering 14-150mm focal range (equivalent to 28-300mm in 35mm format), incorporating Molded-Glass Aspherical elements, LD elements and other specialized glass elements for excellent correction of different aberrations to achieve stellar imaging performance.

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

ASL LD AD ZL

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

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

A high power zoom lens for mirrorless SLR cameras

produces images of superb quality in a compact and lightweight body



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



TIPA Awards 2012 CSC*1 Entry Level Lens

Lens Construction : 17 elements in 13 groups Weight : 460g (16.2oz)

Di III for mirrorless interchangeable-lens cameras

Lens Construction : 17 elements in 13 groups

Filter Size : ø52mm Length : 80.4mm (3.2in)

um Focus Distance : 0.5m (19.7in)

Weight : 285g (10.1oz)

WY

MICRO

Filter Size : ø62mm Length : 96.7mm (3.8in) Animum Focus Distance : 0.5m (19.7in)



High-Speed Zoom Lens



MODEL A007

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

A high-speed F/2.8 standard zoom lens painstakingly crafted in the pursuit of high-level rendering performance

A high-quality, high-performance fast standard zoom lens with VC and USD. From portraits to landscapes and studio work, enjoy rendering power like never before. *For information on compatibility with cameras designed for Sony mount lenses, please check [Cameras subject to restrictions in the use of Di series lenses for the Sony mount with built-in AF motors] on page 22.



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

Di for all SLR cameras





Lens Construction : 17 elements in 12 groups Filter Size : ø82mm Length : 108.5mm (4.3in) Weight : 825g (29.1oz) Minimum Focus Distance : 0.38m (15.0in)

MODEL B005

Di II





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

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







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

A fast standard zoom lens delivering high picture quality, balancing a compact form with the exceptional image performance that comes from ensuring uniform light intensity across the entire frame and a constant F/2.8 aperture. Close-up shooting down to 0.33m is available.







Lens Construction : 16 elements in 13 groups

Filter Size : ø67mm Length : 83.2mm (3.3in)

nimum Focus Distance : 0.27m (10.6in)

Weight : 440g (15.5oz)

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



Ultra-Wide-Angle Lens

Di II



An ultra-wide-angle zoom for easily capturing wide vistas that exceed your own vision

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



MODEL B001

*Length is the distance between the mount face and the tip of the lens. Lens Construction 📕 Hybrid Aspherical Lens 📙 LD element 📕 XLD (Extra Low Dispersion) glass 📕 AD element 📄 XR (Extra Refractive Index) glass 📕 UXR (Ultra-Extra Refractive Index) glass

MODEL A09 14

High-Speed Zoom Lens

MODEL B005 Focal length: 18mm (Equivalent to 28mm) Exposure: F/2.8 at 1/4 sec ISO: 400

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

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



Lens Construction : 19 elements in 14 groups

Di II for APS-C format digital SLR cameras

Di II for APS-C format digital SLR cameras

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



Lens Construction : 12 elements in 9 arouns Filter Size : Ø77mm Length : 86.5mm (3.4in) Weight : 406g (14.3oz) Minimum Focus Distance : 0.24m (9.4in) (Throughout the entire zoom range)





MODEL A009 Focal length: 121mm Exposure: F/13 at 1/100 sec ISO: 100

Telephoto Zoom Lens

Di

MODEL A009

Di

MODEL A001



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

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

*2 Among fast telephoto zoom lenses for full-frame SLR cameras equipped with VC image stabilization and USD. Current as of October 2012 (Source: Tamron) *For information on compatibility with cameras designed for Sony mount lenses, please check [Cameras subjec to restrictions in the use of Di series lenses for the Sony mount with built-in AF motors] on page 22

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

A lightweight, high-performance fast telephoto zoom lens that makes light work of F/2.8 telephoto shooting

A breakthrough in lightweight design, this fast telephoto zoom lens offers stunning mobility. Revel in photo renditions unique to the F/2.8 aperture, like boldly blurring the background to make the subject pop. The lens also boasts exceptional close-focusing performance, with a minimum focusing distance of 0.95m (macro magnification of 1:3.1 at 200mm) across the entire zoom range.

(SP) (IF)

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



Di for all SLR cameras

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



Lens Construction : 23 elements in 17 groups Filter Size : ø77mm Length : 188.3mm (7.4in) Weight : 1,470g (51.9oz)

Includes the weight of the detachable tripod mount. Ainimum Focus Distance : 1.3m (51.2in)



Lens Construction : 18 elements in 13 groups Filter Size : ø77mm Length : 194.3mm (7.6in) Weight : 1,320g (46.6oz)

(Includes the weight of the detachable tripod mount.) Minimum Focus Distance : 0.95m (37.4in) (Throughout the entire zoom range)



Telephoto Zoom Lens

Di for all SLR cameras

()() ()

Di

MODEL A005

Di

MODEL A17

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

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

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

*For information on compatibility with cameras designed for Sony mount lenses, please check [Cameras subject to restrictions in the use of Di series lenses for the Sony mount with built-in AF motors] on page 22.

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



Lens Construction : 17 elements in 12 group Filter Size : ø62mm Length : 142.7mm (5.6in Weight : 765g (27.0oz) imum Focus Distance : 1.5m (59.0in)



MODEL A011

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



Sturdy, easy-to-use new tripod mount





LD

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

for Nikon, Canon, Sony, Pentax

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



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







Di for all SLR cameras

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

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







Lens Construction : 20 elements in 13 groups Filter Size : ø95mm Length : 257.8mm (10.1in)

Weight : 1,951g (68.8oz) (Includes the weight of the detachable tripod mount.) Minimum Focus Distance : 2.7m (106.3in) (Throughout the entire zoom range)



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

Macro Lens

Di for all SLR cameras

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 Sonv⁻¹

A macro lens for sharp descriptive power and pleasing blur effects

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

*For information on compatibility with cameras designed for Sony mount lenses, please check [Cameras subject to restrictions in the use of Di series lenses for the Sony mount with built-in AF motors] on page 22.

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





Weight : 550g (19.4oz) Minimum Focus Distance : 0.3m (11.8in)



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

Macro Lens

MODEL 272E

Di

MODEL B01

Di II



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

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

(SP)

SP AF180mm F/3.5 Di LD [IF] MACRO 1:1

for Nikon, Canon, Sony

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

(SP) (IF)

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

for Nikon, Canon, Sony

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

SP D (F)

MODEL G005

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



Di for all SLR cameras Di II for APS-C format digital SLR cameras



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



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



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

Lens Specifications

LENGEG	MODEL	FOCAL LENGTH	MAXIMUM	LENS	*Figures when used	ANGLE OF VIEW	ras shown in parentheses.	TYPE OF	DIAPHRAGM	MINIMUM	MINIMUM	MAX MAG.	FILTER	WEIGHT	DIAMETER x LENGTH	ACCESSORY		MOUNT				REWARKS	
LENSES	WODEL	(mm)	APERTURE (F)	(Groups/ Elements)	Diagonal	Horizontal	Vertical	ZOOMING	BLADES	APERTURE (F)	FOCUS m (in.)	RATIO	SIZE (ømm)	g (oz.)	mm (in.)	Lens Hood	Case 1	Detachable tripod mount	For Nikon (See Note)	For Canon	For Sony	For Pentax	newianko
Di for all SLR cameras																							
SP 24-70mm F/2.8 Di VC USD *1	A007	24-70	F/2.8	12-17	84°04′-34°21′ (60°20′-22°33′)	73°44′-28°51′ (51°36′-18°49′)	53°05′-19°16′ (35°29′-12°22′)	ROTATION	9 *2 (circular diaphragm)	22	0.38 (15.0) Throughout the entire zoom range	1:5	82	825 (29.1)	ø88.2×108.5 (4.3)	© HA007			• (N)	0	0 "		
SP AF28-75mm F/2.8 XR Di LD Aspherical [IF] MACRO	A09	28-75	F/2.8	14-16	75°23′-32°11′ (52°58′-21°4′)	65°28′-26°59′ (45°0′-17°35′)	46°15′-18°7′ (30°34′-11°29′)	ROTATION	7	32	0.33 (13.0) Throughout the entire zoom range	1:3.9	67	510 (18.0)	ø73×92 (3.6)	O DA09				0	0	0	
28-300mm F/3.5-6.3 Di VC PZD *1 NEW	A010	28-300	F/3.5-6.3	15-19	75°23′-8°15′ (52°58′-5°20′)	65°28′-6°52′ (45°0′-4°26′)	46°15′-4°21′ (30°34′-2°35′)	ROTATION	7 *2 (circular diaphragm)	22-40	0.49 (19.3) Throughout the entire zoom range	1:3.5	67	540 (19.0)	ø74.4×96 (3.8)	© HA010			• (N)	0	0 *		Sony mount to be released.
AF28-300mm F/3.5-6.3 XR Di LD Aspherical [IF] MACRO	A061	28-300	F/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	22-40	0.49 (19.3) Throughout the entire zoom range	1:2.9	62	435 (15.3)	ø73×85.7 (3.4)	O AD06					0	0	Length and weight figures are for Sony mount.
SP 70-200mm F/2.8 Di VC USD *1	A009	70-200	F/2.8	17-23	34°21′-12°21′ (22°33′-7°59′)	28°51′-10°17′ (18°49′-6°38′)	19°16′-6°31′ (12°22′-4°15′)	ROTATION	9 *2 (circular diaphragm)	32	1.3 (51.2) Throughout the entire zoom range	1:8	77	1,470 (51.9) ♦	ø85.8×188.3 (7.4)	© HA001		0	• (N)	0	0 "		
SP AF70-200mm F/2.8 Di LD [IF] MACRO	A001	70-200	F/2.8	13-18	34°21′-12°21′ (22°33′-7°59′)	28°51′-10°17′ (18°49′-6°38′)	19°16′-6°31′ (12°22′-4°15′)	ROTATION	9	32	0.95 (37.4) Throughout the entire zoom range	1:3.1	77	1,320 (46.6) ♦	ø89.5×194.3 (7.6)	© HA001	0	0	• (N II)	0	0	0	Pentax mount dose not have an apeture ring.
SP 70-300mm F/4-5.6 Di VC USD *1	A005	70-300	F/4-5.6	12-17	34°21′-8°15′ (22°33′-5°20′)	28°51′-6°52′ (18°49′-4°26′)	19°16′- 4°21′ (12°22′-2°35′)	ROTATION	9	32-45	1.5 (59.0) Throughout the entire zoom range	1:4	62	765 (27.0)	ø81.5×142.7 (5.6)	© HA005			• (N 11)	0	0 *1		
AF70-300mm F/4-5.6 Di LD MACRO	A17	70-300	F/4-5.6	9-13	34°21′-8°15′ (22°33′-5°20′)	28°51′-6°52′ (18°49′-4°26′)	19°16′-4°21′ (12°22′-2°35′)	ROTATION	9	32-45	1.5 (59.0) 0.95 (37.4) / Macro	1:2	62	458 (16.2)	ø76.6×116.5 (4.6)	O DA17			• (N II)	0	0	0	
SP 150-600mm F/5-6.3 Di VC USD *1 NEW	A011	150-600	F/5-6.3	13-20	16°25′-4°8′ (10°38′-2°40′)	13°41′-3°26′ (8°51′-2°13′)	9°6′-2°10′ (5°33′-1°18′)	ROTATION	9 *2 (circular diaphragm)	32-40	2.7 (106.3) Throughout the entire zoom range	1:5	95	1,951 (68.8) ♦	ø105.6×257.8 (10.1)	O HA011		0	● ⟨N⟩	0	0 *1		Sony mount to be released.
SP 90mm F/2.8 Di MACRO 1:1 VC USD *1	F004	90	F/2.8	11-14	27°2′ (17°37′)	22°37′ (14°41′)	15°6′ (9°31′)	-	9 *2 (circular diaphragm)	32	0.3 (11.8)	1:1	58	550 (19.4)	ø76.4×114.5 (4.5)	O HF004			• (N)	0	0 *1		
SP AF90mm F/2.8 Di MACRO 1:1	272E	90	F/2.8	9-10	27°2′ (17°37′)	22°37′ (14°41′)	15°6′ (9°31′)	-	9	32	0.29 (11.4)	1:1	55	400 (14.1)	ø71.5×97 (3.8)	O 2C9FH	0		• (N II)	0	0	0	
SP AF180mm F/3.5 Di LD [IF] MACRO 1:1	B01	180	F/3.5	11-14	13°42′ (8°52′)	11°25′ (7°22′)	7°23′ (4°34′)	-	7	32	0.47 (18.5)	1:1	72	985 (34.7) ♦	ø84.8×165.7 (6.5)	O DB01	0	0	\bigcirc (N)	0	0		
Di II for APS-C format digital SLR cameras															-								
SP AF10-24mm F/3.5-4.5 Di II LD Aspherical [IF]	B001	10-24	F/3.5-4.5	9-12	108°44′-60°20′	98°28′-51°36′	75°19′-35°29′	ROTATION	7	22-29	0.24 (9.4) Throughout the entire zoom range	1:5.1	77	406 (14.3)	ø83.2×86.5 (3.4)	© AB001			• (N II)	0	0	0	
16-300mm F/3.5-6.3 Di II VC PZD MACRO *1 NEW	B016	16-300	F/3.5-6.3	12-16	82°12′-5°20′	71°57′-4°26′	51°39′-2°57′	ROTATION	7 *2 (circular diaphragm)	22-40	0.39 (15.3) Throughout the entire zoom range	1:2.9	67	540 (19.0)	ø75×99.5 (3.9)	© HB016			• (N)	0	0 *1		Sony mount to be released.
SP AF17-50mm F/2.8 XR Di II VC LD Aspherical [IF]	B005	17-50	F/2.8	14-19	78°45′-31°11′	68°37′-26°7″	49°01′-17°22′	ROTATION	7	32	0.29 (11.4) Throughout the entire zoom range	1:4.8	72	570 (20.1)	ø79.6×94.5 (3.7)	© AB003			• (N II)	0			
SP AF17-50mm F/2.8 XR Di II LD Aspherical [IF]	A16	17-50	F/2.8	13-16	78°45′-31°11′	68°37′-26°7′	49°01′-17°22′	ROTATION	7	32	0.27 (10.6) Throughout the entire zoom range	1:4.5	67	440 (15.5)	ø73.8×83.2 (3.3)	O DA09			• (N II)	0	0	0	
AF18-200mm F/3.5-6.3 XR Di II LD Aspherical [IF] MACRO	A14	18-200	F/3.5-6.3	13-15	75°33′-7°59′	65°36′-6°38′	46°21′-4°15′	ROTATION	7	22-40	0.45 (17.7) Throughout the entire zoom range	1:3.7	62	405 (14.3)	ø73.8×83.7 (3.3)	O AD06			• (N II)	0	0	0	
18-270mm F/3.5-6.3 Di II VC PZD *1	B008	18-270	F/3.5-6.3	13-16	75°33′-5°55′	65°36′-4°55′	46°21′-3°10′	ROTATION	7	22-40	0.49 (19.3) Throughout the entire zoom range	1:3.8	62	450 (15.9)	ø74.4×88 (3.5)	O DA18			• (N)	0	0 *1		
SP AF60mm F/2 Di II LD [IF] MACRO 1:1	G005	60	F/2	10-14	26°11′	21°53′	14°25′	-	7	22	0.23 (9.1)	1:1	55	350 (12.3)	ø73×80 (3.1)	O HG005			• (N 10)	0	0		
Di III for mirrorless interchangeable-lens came	ras																						
14-150mm F/3.5-5.8 Di III NEW	C001	14-150	F/3.5-5.8	13-17	75°22′-8°15′	*3 63°25′-6°37′	*3 49°45′-4°57′	ROTATION	7 *2 (circular diaphragm)	22	0.5 (19.7) Throughout the entire zoom range	1:3.8	52	285 (10.1)	ø63.5×80.4 (3.2)	O HC001		-		For the Micro Fo	ur Thirds System		Black/Silver *3 Case of aspect ratio "4:3"
18-200mm F/3.5-6.3 Di III VC	B011	18-200	F/3.5-6.3	13-17	75°33′-7°59′	65°36′-6°38′	46°21′-4°15′	ROTATION	7	22-40	0.5 (19.7) Throughout the entire zoom range	1:3.7	62	460 (16.2)	ø68×96.7 (3.8)	© HB011			For Car	ion	For	Sony	Black/Silver Length and weight figures are for Sony mount.

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

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 Pro14n, F3AF × × Di series Nikon mount lenses with built-in AF motors Cameras cannot be used with the cameras indicated at right. 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	А	М
F4, F90X, F90XS, F90XD, F90, F90S, F90D, F70D, F801, F801S, F601M	0	0	×	×
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, A007 for Sony, A009 for Sony, and F004 for Sony.

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	0	0
α-SweetIIL, α-Sweet, α-807Si, α-507Si, α-707Si, α-9Xi	×	0
⁴ Only the α -9 models that have been modified to allow lenses with built-in AF motors can be used.		

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	М
α-7, α-9, α-70, α-SweetIIL, α-Sweet, α-807Si, α-507Si, α-707Si, α-9Xi	0	0	0	0
Dynax 3L	0	×	×	×

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

gth is the distance between the mount face and the tip of the lens. Figures for Length and Weight, excluding those for the A061 and B011, are for the Nikon mount. Includes the weight of the detachable tripod mount. O: Indicates a flower shaped hood.

*1 The Sony mounts (B016, B008, A007, A010, A009, A005, A011, 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. *2 This circular diaphragm retains a nearly circular shape even at two stops down from its maximum aperture

Note: Because Nikon mounts may/may not have built-in AF motors, please refer to the table above for the model in question. • AF motor is built-in for Nikon II models. Please refer to the bottom left table for "ICompatibility of Di series with built-in AF motor for Nikon with Nikon cameras)". Aperture ring is not equipped. Nikon models are used with D40, D40X, D60, D3000, D3100, D3200, D3300, D5000, D5100, D5200 and D5300, the lenses function only in the manual focus mode. *The lens for Nikon/Sony is "D" compatible

NOTE for B011

When using Continuous AF (AF-C) Mode with Sony mirrorless interchangeable-lens cameras.

. 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, there will be no associated problems on 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. There will also be no associated problems on 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.

Caution when an error message appears on the camera or when the display disappears from the LCD monitor (for Canon lenses). In very rare cases, malfunction may occur when the signal transmission between the camera and lens is not performed correctly. In such a case, use one of the following methods to fix the problem. Turn the camera switch off.

Make sure there is no stain on signal contact points of the lens and camera.
If the problem remains after performing the above operation, turn the camera switch off and remove the battery, then put the battery back in the camera.

MF mode is available

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 emove 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.

