With Tamron’s unique lens portfolio, photographers can use their camera’s entire potential. Advanced imaging technology and modern optical systems guarantee unbelievable optical performance. Fast AF, precise VC image stabilization, and high-quality lens coatings open up new ways to express yourself. For more than 60 years, Tamron lenses have been the “creative eyes” of photographers at every level of experience.
**Technology**

**Broadening the possibilities of photographic expression with TAMRON LENS TECHNOLOGIES**

**Camera Compatibility**

The designation DI (Digitally Integrated) refers to a lens developed specially for the exacting requirements of digital cameras. Please ensure when purchasing that the lens has the correct mount for your camera system.

- **For full-frame and APS-C format DSLR cameras:**
- **For APS-C cameras:**
- **For mirrorless interchangeable-lens cameras:**

Some models can be used with all mounts. You can find an overview on pages 30 to 31. Di lenses with built-in motors for NIKON and DI I lenses have no aperture ring.

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

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

**Superior Performance for Discriminating Shooters**

The Tamron SP (Superior 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 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) Glass for Better Color Correction**

AD glass is a special type of optical glass that is used to achieve more precise control of chromatic aberrations, thereby enhancing overall image performance. Glass of this type provides an abnormally large partial dispersion ratio (amount of diffusion) 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).

**GM (Glass Molded Aspherical) Lens**

The XGM lens element is capable of efficiently correcting aberrations in the angle of view that changes significantly with an ultra wide-angle zoom lens. It has an especially significant impact on minimizing distortion and enhancing the sharpness of the image at its periphery. The process by which this lens is made involves using glass molding manufacturing technology that allows the fabrication of a wider range of lens shapes than the composite aspherical lenses method. Moreover, XGM also effectively controls aberrations and reduces total lens size.

**XLD (eXtra Low Dispersion) Lens**

XLD lens elements made from specialized ultrahigh-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 Tamron lens designers to achieve much greater control over chromatic aberration. XLD lens elements made from specialized ultra-high-grade glass allow Tamron to effectively compensate for chromatic aberration at the center of the field (on axis) for wide-angle lenses (or zooms used at wide-angle settings) and reduce total lens size. XLD lens 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.

**GM (Glass Molded Aspherical) Lens**

The XGM lens element is capable of efficiently correcting aberrations in the angle of view that changes significantly with an ultra wide-angle zoom lens. It has an especially significant impact on minimizing distortion and enhancing the sharpness of the image at its periphery. The process by which this lens is made involves using glass molding manufacturing technology that allows the fabrication of a wider range of lens shapes than the composite aspherical lenses method. Moreover, XGM also effectively controls aberrations and reduces total lens size.

**AD (Anomalous Dispersion) Glass for Better Color Correction**

AD glass is a special type of optical glass that is used to achieve more precise control of chromatic aberrations, thereby enhancing overall image performance. Glass of this type provides an abnormally large partial dispersion ratio (amount of diffusion) 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).

**Legend - Optical construction (see lens designs in this brochure)**

- **ASL element**
- **LD element**
- **XLD element**
- **AD element**
- **XRF element**
- **UVR element**
- **GM element**

**BBAR (Broad-Band Anti-Reflection) Coating**

Tamron uses advanced multi-coating techniques to suppress reflections and light dispersion on lens element surfaces that result in reduced light transmission and may cause ghosting and flare images. The BBAR 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-Coating that successfully increases light transmission in both longer and shorter wavelengths. Plus, SP 35mm F1.4 Model F045 applies newly-developed second-generation BBAR-G2 Coating, which provides vastly improved performance compared to the original coating. It corrects for ghosting and flare in a more consistent way, and renders fine subject detail with true clarity and stunning contrast even under backlit conditions.

**AX (Anti-reflection eXpand) Coating**

A revolutionary AX Coating is accomplished through Tamron’s proprietary deposition technology that addresses the difficulty of applying uniformed coatings using existing technology. Now the coating can be applied uniformly edge to edge, even if the camera surface has a strong curvature. As a result, the reflective and color rendition at the peripheral part of the element is the same as the center. The new AX Coating, which is especially effective for wide-angle lenses that tend to let in harmful light from peripheral areas, effectively minimizes ghosting and provides outstanding uniform image clarity.

**eBAND (Extended Bandwidth & Angular-Dependence) Coating**

This coating technique developed by Tamron deploys a nano-structured layer (1nm to 0.1,000,000nm) of ultra-low reflective index, with dimensions smaller than the wavelengths of visible rays of light. This nano-structured layered film is combined with the sophisticated multiple layer coatings underneath, yielding significant anti-reflection properties, efficiently reducing undesired flare and ghosting to an absolute minimum to deliver sharp, crisp images.

**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 length for the same focal length and same maximum F-number. By utilizing XRF (Extra Refractive Index) glass, Tamron has achieved a compact size together with good correction of aberrations while maintaining the optimum balance of overall power. Moreover, through the active utilization of UVR (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**

XRF 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 not only the entire optical system and produce lighter, more compact lenses of the same speed, and also to provide greater zoom range in lenses that are much more convenient to carry and hand-hold.

**Compensation for Spherical Aberration**

In combination with LD elements, XLD elements are used to effectively compensate for chromatic aberration at the center of the field (on axis) for wide-angle lenses (or zooms used at wide-angle settings).

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

Tamron uses several Hybrid Aspherical lens elements 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 compactness and maximum performance potential. By perfectly matching these leading-edge advances for series production, Tamron has advanced the state-of-art in optical design and virtually eliminated spherical aberration and image distortion from the all-in-one 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-focus lenses that deliver a uniformly high level of image quality at all focal lengths and apertures.

**Principles enabling more compact sizes at the same lens brightness**

XRF 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 not only the entire optical system and produce lighter, more compact lenses of the same speed, and also to provide greater zoom range in lenses that are much more convenient to carry and hand-hold.

**LD glass**

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

IF (Internal Focusing) System
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. Of most importance, Tamron’s IF system provides a much closer MDO (Minimum Object Distance) throughout its entire focusing range. In addition, IF improves optical performance by minimizing image loss at the corners of the image field (barreling), 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, a simple convenience feature that prevents undesired extension (out of the lens barrel) when carrying the camcorder unit on a neck strap. This enhances responsiveness in the field and helps protect the lens.

FLEX ZOOM LOCK Mechanism
This mechanism quickly locks or unlocks the zoom at any position simply by sliding the slider. Photographers can shoot from any angle without the zoom extending unintentionally.

Multiple-Cam Zoom Mechanism for Smooth, Stable Zooming and Precise Focusing at All Focal Lengths
The manufacture of compact, high-quality, all-in-one zoom lenses became a reality only when Tamron perfects a lens shape that permitted stable and smooth extension of the lens barrel. The “Multiple-Cam Zoom Mechanism” is an original Tamron design that makes use of precision cam rings rotating on a single cylindrical surface using high-techno automated machinery. This key component enables zoom lens barrels to be extended and retracted effortlessly, achieving commendably compact dimensions at the wide-angle setting, 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 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 all-in-one zoom lenses make extensive use of engineering plastic materials in many critical mechanical components of the lens. Tamron has developed advanced proprietary methods for manufacturing these advanced polycarbonate materials to a very high degree of precision, and repeated tests have confirmed their long-lasting properties and dimensional stability under the toughest conditions. Indeed, polycarbonate of this caliber is the material of choice whenever we produce high-precision components that require the strength to withstand rigorous use.

Different Angles of View
Photographers can shoot from any angle without the lens extending unintentionally. This enhances responsiveness in the field and helps protect the lens.

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 a precision helical ring to compensate for vibrations which glide smoothly on three balls with little friction. This simple mechanical structure is one of the secrets to Tamron’s compact lenses.

OSD (Optimized Silent Drive)
OSD module allows silent focusing. This makes the lens ideal for situations in which absolute silence is required. By applying ultrasonic waves, the AF motor can move at a very high speed with great precision. Compared with their predecessors, their actuator system allows greater flexibility in lens design, reducing the overall size and weight of the lens.

USD (Ultrasonic Silent Drive)
USD is an ingeniously upgraded AF drive system developed by Tamron to deliver the extraordinary autofocusing 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 AF 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.

HLD (High/Low torque-modulated Drive)
This energy-saving HLD motor generates outstanding drive torque, so focusing is precise and quiet. Because of its small size and arched shape, the HLD motor doesn’t take up much space, which means the lens could be designed to be even more compact.

P2D (Piezo Drive)
An exclusive Tamron innovation, P2D is an advanced ultrasonic, 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 moving motor, 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 P2D 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 greater flexibility in lens design, reducing the overall size and weight of the lens.

Dual MPU (Micro-Processing Unit)
Two separate processor units mean that digital signals from the VC image stabilization and autofocus are processed separately at maximum speed. This means, for example, that commands from the camera and AF motor can be interpreted at lightning speed and implemented precisely.

Moisture-Proof and Dust-Resistant Construction
Moisture-Proof and Dust-Resistant Construction has been improved to an exceptionally high standard in lens protection, preventing any intrusion of dirt, dust, or raindrops. A rubber seal protects each switch on the lens, and seaweed material is applied to the mechanical interface between the focus ring and the lens housing. The construction further expands opportunities for shooting, ensuring reliability even in harsh, windy conditions and immediately after rainfall.

Moisture-Resistant Construction
For greater protection when shooting outdoors, leak-resistant seals throughout the lens barrel help protect your equipment.

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

Different Focal Lengths

<table>
<thead>
<tr>
<th>Focal Length</th>
<th>Lens and Equipment</th>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>15mm</td>
<td>28mm</td>
<td>1.85x</td>
</tr>
<tr>
<td>30mm</td>
<td>45mm</td>
<td>1.5x</td>
</tr>
<tr>
<td>45mm</td>
<td>70mm</td>
<td>1.57x</td>
</tr>
<tr>
<td>60mm</td>
<td>90mm</td>
<td>1.6x</td>
</tr>
<tr>
<td>70mm</td>
<td>105mm</td>
<td>1.5x</td>
</tr>
<tr>
<td>105mm</td>
<td>150mm</td>
<td>1.43x</td>
</tr>
<tr>
<td>150mm</td>
<td>225mm</td>
<td>1.49x</td>
</tr>
<tr>
<td>225mm</td>
<td>340mm</td>
<td>1.49x</td>
</tr>
<tr>
<td>340mm</td>
<td>510mm</td>
<td>1.51x</td>
</tr>
<tr>
<td>510mm</td>
<td>765mm</td>
<td>1.51x</td>
</tr>
<tr>
<td>765mm</td>
<td>1155mm</td>
<td>1.51x</td>
</tr>
</tbody>
</table>

With Fluorine Coating

<table>
<thead>
<tr>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5x</td>
</tr>
<tr>
<td>1.57x</td>
</tr>
<tr>
<td>1.6x</td>
</tr>
<tr>
<td>1.43x</td>
</tr>
<tr>
<td>1.49x</td>
</tr>
<tr>
<td>1.51x</td>
</tr>
</tbody>
</table>

Dynamic Rolling-cam mechanism
Thanks to Tamron’s developed Dynamic Rolling-cam mechanism, which operates the heavy focusing unit of the large aperture with high speed and accuracy, Tamron has succeeded in minimizing the drive load placed on the focus lens component. This breakthrough ensures stable AF operating performance and improves reliability even under the harsh shooting conditions of professional use, including high and low temperature extremes.
Conceived with elegance and crafted to perfection

Ultra-high quality where every shape is captured with perfect fidelity. The use of LD and GM lens elements almost completely eliminates any optical aberrations that could reduce image quality. As a result, this lens produces bokeh that blends in beautifully without introducing aberrant color in front of or behind the focal plane.

Stunning clarity and contrast

Newly developed BBAR-G2 Coating corrects for ghosting and flare to an unprecedented extent and renders fine subject detail with true clarity and stunning contrast.

Exceptionally reliable, fast and accurate AF

The AF drive is equipped with Tamron’s proprietary USD motor.

Furthermore, Tamron's all-new Dynamic Rolling cam mechanism operates the heavy focusing unit of the large F/1.4 aperture with unparalleled speed and accuracy. This innovation ensures stable AF performance and improves reliability even under the harsh shooting conditions of professional use, including high and low temperature extremes.

Ultimate optical performance

To deliver a perfect image to people who love photography; that's our obsessive goal for all Tamron lenses. The SP 35mm F/1.4 (Model F045) is our most shining example. The exceptional image quality makes it worthy of being the lens that marks the milestone 40th anniversary of the SP Series. Uncompromising resolution combines with a velvety bokeh that gently blends away from the ultra-sharp focus area. Truly, the Model F045 is the distillation of all of the optical technologies and manufacturing know-how that Tamron has developed.
17-28mm F/2.8 Di III RXD

The 17-28mm F/2.8 gives life to a new range of creative choices. Where large aperture (F/2.8) meets small filter size (ø67mm).

Magnificent image quality without compromise
LD and XLD lens elements are precisely located to quash chromatic and other aberrations. In addition, the BBAR Coating effectively reduces ghosting and flare. Leveraging camera functions*, it provides excellent optical performance matching the latest high resolution image sensors throughout the entire zoom range.

Superior close-up shooting performance

Superior MOD empowers creativity
At the wide end, the MOD is just 0.19m with a max. magnification ratio of 1:5.2. At the tele end, the MOD is 0.26m with the max. magnification ratio is 1:6. You can easily get close for a powerful shot. Plus, you can produce soft expressions with a shallow depth of field by fully opening the aperture when shooting close to the subject.

High performance AF
The AF system works with an extra-quiet RXD stepping motor. A sensor continuously determines the lens’s current focus setting; achieving quick and precise focusing that also allows videographers to keep moving objects in focus continually.

Exciting combo with Model A036

Versatile, exciting combination when paired with the 28-75mm F/2.8 (Model A036). ø67mm filters, lens caps and accessories are usable with both.

* When shooting with the camera’s lens correction function enabled.
28-75mm F/2.8 Di III RXD

Find exciting new ways to express yourself! High sharpness and soft background blur make for true-to-life results.

The Model A036 is a fast standard zoom lens developed for mirrorless system cameras. It combines high image quality with attractive background bokeh. In addition, the 0.19m MOD lets you enjoy new forms of photographic expression with close-up shooting at the wide-angle end. The AF drive includes an extra-quiet stepping motor unit to help you stay focused on the action.

Optical Construction : 15 elements in 12 groups
Filter Size : ø67mm
Length : 117.8mm (4.6in)
Weight : 550g (19.4oz)
Minimum Object Distance : 0.19m (7.5in) [WIDE] 0.39m (15.3in) [TELE]

For Sony full-frame mirrorless

Get an MOD of 0.19m at a wide-angle setting
* Sample image of deformation effects by wide angle close-up shooting

Versatile, exciting combination when paired with the 17-28mm F/2.8 (Model A046)

Spherical Aberration : 1 elements in 13 groups
Filter Size : ø46mm
Length : 117.8mm (4.6in)
Weight : 285g (10oz)
Minimum Object Distance : 0.19m (7.5in) [WIDE] 0.39m (15.3in) [TELE]

28-75mm F/2.8 (Model A046)

SP 24-70mm F/2.8 Di VC USD G2

Sophisticated design, outstanding performance and the best image quality
Your photography will be a dream with this standard zoom lens.

The latest generation of our fast-aperture standard zoom, with the most advanced features, built for professional requirements and the latest generation of high-resolution DSLR cameras. A lens for anyone who doesn’t want to compromise on their equipment or image quality.

Optical Construction : 17 elements in 12 groups
Filter Size : ø82mm
Length : 108.5mm (4.3in)
Weight : 900g (31.7oz)
Minimum Object Distance : 0.38m (15in)

Tamron’s eBAND and BBAR Coatings success-
fully and substantially curb the ghosting and
flare that can occur when photographing backlit
subjects.

The Dual MPU means digital signals
from the VC image stabilization and
USD autofocus are processed separately
at high speed.

Optical Construction : 17 elements in 12 groups
Filter Size : ø82mm
Length : 108.5mm (4.3in)
Weight : 900g (31.7oz)
Minimum Object Distance : 0.38m (15in)
High quality, flexibility and broad creative expression

The 35-150mm F/2.8-4 zoom is based on the new concept of allowing you to concentrate on a wide range of portrait compositions without the interruption of pausing to change lenses. Plus, the MOD of 0.45m across the entire zoom range adds new possibilities to portrait composition.

The great balance between high resolution and brilliant bokeh

A specialized optical formula, including LD and hybrid aspherical lens elements, thoroughly controls optical aberrations. Combining Tamron’s many years of expertise in producing soft bokeh with the latest simulation technologies, the contrast between in-focus areas rendered accurately down to the fine details and backgrounds that gently blend into the scene produces a single high-quality image.

Dual MPU for fast and steady operation

This exciting zoom lens incorporates Tamron’s Dual MPU system, which strikes the perfect balance between AF performance and effective vibration compensation. This ensures accurate focus even in scenes with continually moving subjects or under low-light conditions.

High resolution and brilliant bokeh accentuate any subjects

A specialized optical formula, including LD and hybrid aspherical lens elements, thoroughly controls optical aberrations. Combining Tamron’s many years of expertise in producing soft bokeh with the latest simulation technologies, the contrast between in-focus areas rendered accurately down to the fine details and backgrounds that gently blend into the scene produces a single high-quality image.

Perfect combo with Model A037

The Model A043 covers a wide range of focal lengths from 35mm to 150mm, setting the focal length in the 85mm that is ideal for head and shoulder portraiture. Its optical performance tuned to accentuate the finest qualities of the subject combines clear image quality and soft bokeh at the highest level. Thanks to the new OSD technology, the AF is extra quiet. The precision and speed of focusing have also been significantly improved. This lightweight, compact and highly mobile lens provides the high quality optical performance and focal lengths necessary to make it not only the perfect portrait lens, but also an excellent travel lens ideal for landscapes, street photography, food and more.

High resolution and brilliant bokeh accentuate any subjects

The Model A043 covers a wide range of focal lengths from 35mm to 150mm, setting the focal length in the 85mm that is ideal for head and shoulder portraiture. Its optical performance tuned to accentuate the finest qualities of the subject combines clear image quality and soft bokeh at the highest level. Thanks to the new OSD technology, the AF is extra quiet. The precision and speed of focusing have also been significantly improved. This lightweight, compact and highly mobile lens provides the high quality optical performance and focal lengths necessary to make it not only the perfect portrait lens, but also an excellent travel lens ideal for landscapes, street photography, food and more.

Perfect combo with Model A037

The 35-150mm F/2.8-4 covers from 35mm wide angle to 150mm telephoto.
**Ultra wide-angle zoom**

**SP 15-30mm F/2.8 Di VC USD G2**

Fast, next-generation ultra wide-angle zoom lens.

Extraordinary image quality for professional demands.

The second generation of Tamron’s ultra wide-angle zoom lens offers outstanding image quality. The use of XGM and LD lens elements almost completely suppresses the image aberrations like distortion and lateral chromatic aberrations that are often seen with wide-angle lenses. The AX Coating, newly developed by Tamron, sets new standards in reducing ghost images and blind spots.

- **Optical Construction**: 18 elements in 13 groups
- **Filter Size**: N/A
- **Length**: 142.5mm (5.6in)
- **Weight**: 1.100g (38.8oz)
- **Minimum Object Distance**: 0.28m (11in)

**17-35mm F/2.8-4 Di OSD**

With the total length of 90mm and a weight of 460g, the Model A037 is a lightweight and compact ultra wide-angle zoom lens. Four LD and two GM elements help largely correcting distortion and other optical aberrations. The lens casing is sealed against the weather, and the front lens is additionally protected with a Fluorine Coating. Also, the improved OSD allows quick, precise, and silent focusing.

- **Optical Construction**: 16 elements in 11 groups
- **Filter Size**: ø77mm
- **Length**: 82.1mm (3.2in)
- **Weight**: 440g (15.5oz)
- **Minimum Object Distance**: 0.24m (9.4in)

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

This compact ultra wide-angle zoom lens for APS-C DSLR cameras covers the focal length from 10mm to 24mm (the 35mm equivalent of 15-36mm). With high image performance, it also includes state-of-the-art Tamron technology like VC image stabilization, a HLD, Fluorine Coating, and Moisture-Resistant Construction.

- **Optical Construction**: 15 elements in 10 groups
- **Filter Size**: ø77mm
- **Length**: 90.0mm (3.5in)
- **Weight**: 460g (16.2oz)
- **Minimum Object Distance**: 0.28m (11in)

**A filter holder that allows you to attach gelatin filters to the rear side of the lens is included as a standard feature (for Canon EF-mount only).**

**SP 15-30mm F/2.8 Di VC USD G2**

- **Filter Size**: ø62mm
- **Length**: 183mm (7.2in)
- **Weight**: 1.100g (38.8oz)
- **Minimum Object Distance**: 0.28m (11in)

Impressive high AF performance and image stabilization.
18-400mm F/3.5-6.3 Di II VC HLD

One moment, no limits. Discover new opportunities with the world’s first* 22.2x ultra-telephoto all-in-one zoom lens.

The Model B028 all-in-one zoom lens from Tamron offers limitless photography fun. With a focal length range from 28mm to 620mm converted for 35mm format, no subject will be too elusive. Despite the impressive 22.2x zoom, the lens is surprisingly compact, with a length of 121.4mm and a weight of just 705g.

- **Focal length**: 400mm
- **Exposure**: F/6.3 at 1/250 sec.
- **ISO**: 500

<table>
<thead>
<tr>
<th>Model</th>
<th>Optical Construction</th>
<th>Filter Size</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>B028</td>
<td>16 elements in 11 groups</td>
<td>ø72mm</td>
<td>121.4mm</td>
<td>705g</td>
</tr>
</tbody>
</table>

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

An all-in-one zoom lens covering the versatile 18-200mm focal range. The lightest weight in the world* has been achieved despite the built-in VC image stabilization, and with the latest optical design, the lens produces exceptional rendering performance.

- **Focal length**: 200mm
- **Exposure**: F/8 at 1/1000 sec.
- **ISO**: 400

<table>
<thead>
<tr>
<th>Model</th>
<th>Optical Construction</th>
<th>Filter Size</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>B018</td>
<td>16 elements in 12 groups</td>
<td>ø67mm</td>
<td>99.5mm</td>
<td>540g</td>
</tr>
</tbody>
</table>

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

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

- **Focal length**: 270mm

<table>
<thead>
<tr>
<th>Model</th>
<th>Optical Construction</th>
<th>Filter Size</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>B008TS</td>
<td>16 elements in 13 groups</td>
<td>ø62mm</td>
<td>88mm</td>
<td>450g</td>
</tr>
</tbody>
</table>
28-300mm F/3.5-6.3 Di VC PZD
With the use of specialized glass elements including molded-glass aspherical lenses, high rendering performance has been achieved while reducing lens size. The VC image stabilization corrects for camera shake that tends to occur under low-light conditions and at the telephoto end, enabling comfortable hand-held shooting.

14-150mm F/3.5-5.8 Di III
for Micro Four Thirds System
This lens incorporates molded-glass aspherical elements, LD and other specialized glass elements for excellent correction of different aberrations to achieve stellar imaging performance.

18-200mm F/3.5-6.3 Di III VC
for mirrorless interchangeable-lens cameras (APS-C format): Canon, Sony
This all-in-one zoom lens incorporates the VC image stabilization and a low-noise stepping motor for autofocus mechanism. Enjoy a more comfortable video shooting experience, with expanded shooting options.

SP AF28-75mm F/2.8 XR Di Aspherical [IF] MACRO
A fast standard zoom lens delivers high image quality, balancing a compact form with the exceptional image performance that comes from ensuring uniform light intensity across the entire frame and a constant F/2.8 aperture.

SP AF17-50mm F/2.8 XR Di II LD Aspherical [IF]
An extremely compact fast standard zoom lens that combines astounding image quality with superior versatility and cost effectiveness. Enjoy the beautiful rendering of scenes unique to a constant F/2.8 aperture lens.

SP AF17-50mm F/2.8 XR Di II LD Aspherical [IF]
Enjoy wielding a high-quality, high-performance fast standard zoom lens equipped with VC image stabilization. Unleash your photographic freedom with the ability to easily shoot hand-held, even in low-light.
SP 70-300mm F/4-5.6 Di VC USD

This lens is developed by substantially enhancing the features of the popular SP 70-300mm F/4-5.6 Di VC USD (Model A005). With the external design completely revamped, a Fluorine Coating with outstanding durability is applied to the front element surface of the lens. Improvements have also been achieved in AF speed and responsiveness and VC image stabilization functions.

70-210mm F/4 Di VC USD

With the development of the 70-210mm F/4 (Model A034), Tamron has drawn on its long and wide-ranging expertise in the construction of telephoto lenses. The result is a compact telephoto with the excellent optical performance for shots with very high-resolution and an excellent contrast ratio. The large F/4 aperture across the entire focal length range allows precise control of the depth of field and a beautiful bokeh effect.

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

The 1:2 macro function telephoto lens is the ideal addition to a standard lens. This model combines high mechanical quality with outstanding optical properties. The macro switch-over mechanism at focal ranges 180-300mm lets the photographer photograph the subject from just 0.95m away.

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

With a length of just 195mm, this lens is one of the most compact 70-200mm telephotos. Despite its modest dimensions, it is fast and has high sharpness and resolution. The MOD of just 0.95m means you can take close-up shots with a magnification of 1.3:1.
Ultra-Telephoto zoom

**100-400mm F/4.5-6.3 Di VC USD**

Extremely portable, with a highly responsive AF. Now you can seize the moment with lasting effect.

The Tamron 100-400mm F/4.5-6.3 (Model A035) is a highly portable, ultra-telephoto zoom lens with AF precision for shooting instantaneous movement with the utmost clarity. With this effectively positioned, LD lens element, aberrations typical with many telephoto lenses are a thing of the past. Tamron’s proprietary eBAND Coating suppresses reflections, yielding vivid images of amazing clarity.

Excellent AF performance meets enhanced VC. The optional tripod mount is ARCA-SWISS compatible and can be removed when required.

**Optical Construction**: 17 elements in 11 groups

**Filter Size**: ø67mm

**Length**: 196.5mm (7.7in)

**Weight**: 1,115g (39.3oz)

**Minimum Object Distance**: 1.5m (59in)

**AWARDS**

2017

---

**SP 150-600mm F/5-6.3 Di VC USD G2**

The ultra-telephoto zoom lens means you are never too far away to get a great close-up of your subject. The second generation of the Model A022 has a first-class optical performance, and the AF and VC image stabilization have been improved even further. The front lens has a Fluorine Coating and the entire housing is protected against splashing water and dust.

The optional tripod mount is ARCA-SWISS compatible and can be removed when required.

**Optical Construction**: 17 elements in 11 groups

**Filter Size**: ø95mm

**Length**: 257.8mm (10.1in)

**Weight**: 1,951g (68.8oz)

**Minimum Object Distance**: 2.7m (106.3in)

---

**SP 150-600mm F/5-6.3 Di VC USD**

The ultra-telephoto zoom lens means you are never too far away to get a great close-up of your subject. The second generation of the Model A022 has a first-class optical performance, and the AF and VC image stabilization have been improved even further. The front lens has a Fluorine Coating and the entire housing is protected against splashing water and dust.

The optional tripod mount is ARCA-SWISS compatible and can be removed when required.

**Optical Construction**: 17 elements in 11 groups

**Filter Size**: ø95mm

**Length**: 257.8mm (10.1in)

**Weight**: 1,951g (68.8oz)

**Minimum Object Distance**: 2.7m (106.3in)
SP 35mm F/1.8 Di VC USD
A fast-aperture 35mm is extremely high-quality prime lens, with the built-in VC image stabilization and USD motor. Thanks to the world’s shortest MOD in this lens class, at 0.2m, you can take pictures that have the look of macro shots. The lens is properly protected against splashing water and the front lens can be cleaned easily thanks to Fluorine Coating.

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

SP 45mm F/1.8 Di VC USD
Advanced optical design and use of special glass elements, including aspherical lenses and LD elements, are what make this excellent lens stand out. It is the first standard prime lens for full-format DSLRs in the world to be equipped with an image stabilization, and the first lens of its class** with a MOD of just 0.29m. Like all models in the SP series, it also has exceptionally high built quality.

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

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

Optical Construction : 13 elements in 9 groups
Filter Size : ø62mm
Length : 97mm (3.8in)
Weight : 400g (14.1oz)
Minimum Object Distance : 0.29m (11.4in)

SP 90mm F/2.8 Di MACRO 1:1 VC USD
We have used the most advanced technologies to really make this superb SP prime lens stand out. It carries the heritage of Tamron’s legendary series of 90mm macro lenses into the future. The VC image stabilization is supported by XY-Shift compensation, which dramatically widens the range of applications. The housing is also protected against damp and dust, while Fluorine Coating makes cleaning the lens a breeze.

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

SP AF90mm F/2.8 Di MACRO 1:1
This tried and tested version of Tamron’s classic 90mm macro lens is the ideal universal lens for ambitious photographers. The optical construction includes 10 elements in 9 groups, making for excellent imaging performance. The MOD is just 0.29m, so you can photograph even small objects at an image ratio of 1:1.

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

* In comparison with currently available 85mm F/1.8 prime lenses for DSLR with full-format sensors, excluding macro lenses. (As of January 2016: Tamron)
** In comparison with currently available 35mm F/1.8 and 50mm F/1.8 prime lenses for DSLR with full-format sensors. (As of July 2015: Tamron)
## Accessories

<table>
<thead>
<tr>
<th>Lens</th>
<th>TAP-in Console (optional)</th>
<th>Teleconverter (optional)</th>
<th>Tripod mount (optional)</th>
<th>Tripod mount (included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24mm F/3.5-4.5 Di II VC HLD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 15-30mm F/2.8 Di VC USD G2</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>17-26mm F/2.8-4 Di OSD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>18-400mm F/3.5-6.3 Di II VC HLD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 24-70mm F/2.8 Di VC USD G2</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>35-150mm F/2.8-4 Di VC OSD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 70-200mm F/2.8 Di VC USD G2</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP AF70-200mm F/2.8 Di LD [IF] MACRO</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>70-210mm F/4 Di VC USD</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>100-400mm F/4.5-6.3 Di VC USD</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 150-600mm F/5-6.3 Di VC USD G2</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 150-600mm F/5-6.3 Di VC USD</td>
<td>●</td>
<td>●</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 35mm F/1.4 Di USD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 35mm F/1.8 Di VC USD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 45mm F/1.8 Di VC USD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 85mm F/1.8 Di VC USD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SP 90mm F/2.8 Di MACRO 1:1 VC USD</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

### TAP-in Console™ – Individually configure your Tamron lens

Photographers can use the TAP-in Console to configure selected Tamron lenses for their own needs. This means, for example, that you can update the firmware on your lens using your own computer and configure it in other ways that were previously only possible on-location via Tamron services. The parameters that are individually configurable include (depending on the lens): Focus adjustment, setting the focus limiter, optimization of the manual focus function and calibration of the VC image stabilization.


### Teleconverter

The TC-X14 and TC-X20 teleconverters allow the focal length of compatible Tamron lenses to be extended by the factors 1.4x or 2.0x. The high imaging performance of the lens remains unaffected.

![Teleconverter](image)

*SP AF70-200mm (Model A001) and SP 150-600mm (Model A011) are not ARCA-SWISS compatible.*

### Tripod mount

A new textured grip and ARCA-SWISS compatible tripod interface enhance both speed and utility. And because the tripod mount is made of lightweight magnesium, it is much easier to carry.

*SP AF70-200mm (Model A001) and SP 150-600mm (Model A011) are not ARCA-SWISS compatible.*
### Lens Specifications

#### Di For full-frame and APS-C format DSLR cameras

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FOCAL LENGTH (mm)</th>
<th>LENS HOOD INCLUDED</th>
<th>SP 15-35mm F/2.8 Di VC USD</th>
<th>17 A041</th>
<th>17–30</th>
<th>1:4.5–5.6 (TELE)</th>
<th>16-11</th>
<th>0.68 (2.7)</th>
<th>76 × 117.8 (4.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 24-70mm F/2.8 Di VC USD</td>
<td>13 A022</td>
<td>24-70</td>
<td>1:4.5–5.6 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 28-75mm F/2.8 Di VC USD</td>
<td>21 A039</td>
<td>28-75</td>
<td>1:4.5–5.6 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 35-150mm F/2.8 Di VC USD</td>
<td>24 A039</td>
<td>35-150</td>
<td>1:4.5–5.6 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 70-200mm F/2.8 Di VC USD</td>
<td>22 A039</td>
<td>70-200</td>
<td>1:4.5–5.6 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 70-300mm F/4 Di VC USD</td>
<td>23 A039</td>
<td>70-300</td>
<td>1:4.5–5.6 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 150-600mm F/5-6.3 Di VC USD</td>
<td>25 A039</td>
<td>150-600</td>
<td>1:6.3–9.5 (TELE)</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 45mm F/1.8 Di VC USD</td>
<td>26 F012</td>
<td>45</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 60mm F/2 Di VC USD</td>
<td>27 F017</td>
<td>60</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 100mm F/2.8 Di Macro 1:1</td>
<td>28 F018</td>
<td>100</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 17–50mm F/2.8 Di III VC</td>
<td>29 F019</td>
<td>17-50</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 28–75mm F/2.8 Di III VC</td>
<td>30 D018</td>
<td>28-75</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

#### Di II For APS-C format DSLR cameras

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FOCAL LENGTH (mm)</th>
<th>LENS HOOD INCLUDED</th>
<th>SP 10-24mm F/3.5-4.5 Di II VC HLD</th>
<th>16 B023</th>
<th>10-24</th>
<th>2.8 32</th>
<th>16-11</th>
<th>0.68 (2.7)</th>
<th>76 × 117.8 (4.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16mm F/2.8 Di II VC USD MACRO</td>
<td>19 B016</td>
<td>16</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP AF70-300mm F/4 Di VC USD Aspherical [IF]</td>
<td>21 B025</td>
<td>70-300</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP AF 70–200mm F/2.8 Di II LD [IF] MACRO</td>
<td>23 B025</td>
<td>70-200</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-400mm F/4.5-5.6 Di II VC USD</td>
<td>24 A039</td>
<td>100-400</td>
<td>4.5–5.6 32-64</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 50mm F/1.8 Di II VC USD</td>
<td>26 F012</td>
<td>50</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 60mm F/2.8 Di II VC USD</td>
<td>27 F017</td>
<td>60</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 90mm F/2.8 Di II VC USD</td>
<td>28 F018</td>
<td>90</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 100mm F/2.8 Di II VC USD Macro 1:1</td>
<td>29 F019</td>
<td>100</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

#### Di III For mirrorless interchangeable-lens cameras

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FOCAL LENGTH (mm)</th>
<th>LENS HOOD INCLUDED</th>
<th>SP 14-100mm F/4 Di III VC HLD</th>
<th>31 D018</th>
<th>14-100</th>
<th>2.8 32</th>
<th>16-11</th>
<th>0.68 (2.7)</th>
<th>76 × 117.8 (4.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16mm F/2.8 Di III</td>
<td>10 A046</td>
<td>16-28</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18–55mm F/3.5-5.6 Di III</td>
<td>11 B018</td>
<td>18-55</td>
<td>3.5–5.6 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17–70mm F/2.8 Di III RXD</td>
<td>12 A046</td>
<td>17-70</td>
<td>2.8 32</td>
<td>16-11</td>
<td>0.68 (2.7)</td>
<td>76 × 117.8 (4.6)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

#### Notes

- The lens hood is permanently connected to the lens.
- HF016 Optional: TAP-in Console
- HA022 Included: Lens pouch, tripod mount
- HA011 Included: Tripod mount
- DA018
- HA032 Included: Lens pouch
- HB028 Optional: TAP-in Console
- HF017 Optional: TAP-in Console
- HF012 Optional: TAP-in Console
- HA005
- HA010
- HA001 Included Lens case, tripod mount
- HA035 Optional: 1.4x/2.0x teleconverter, tripod mount, TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HF017 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console
- HA005
- HB028 Optional: TAP-in Console

---

### Lens Hood

- Indicates a flavor shaped hood
- Indicates a round shaped hood

All Tamron lenses are supplied with a lens hood as standard that is made specifically for the specific lens. This lens attachment prevents lateral light rays entering the lens and thereby minimizes the risk of dispersion and ghost images on the inside of the lens harming the quality of the image. On lenses with IF (Internal Focusing), the lens hood is somewhat larger and is tulip-shaped, preventing shadowing in the center of the image.
Photographic Lenses
Interchangeable lenses broaden photographic expression. Tamron employs its advanced technological capabilities to develop lenses with creative specifications, superior rendering capabilities and designs that are compact, lightweight and easy to operate. Among these offerings, our all-in-one zoom lenses that cover a wide range of focal length from wide angle to telephoto in one lens, and our highest-grade SP (Superior Performance) series have won numerous prestigious awards and earned an excellent reputation among photographers and photography enthusiasts around the world.

Surveillance Camera Lenses / FA and Machine Vision Lenses
Tamron has continued to develop surveillance camera lenses to meet the precise needs of the market, evidenced by its pioneering development of vari-focal lenses in the industry. We also develop and manufacture lenses for Machine Vision cameras used in the industrial sector.

Drone Lenses
With the drone market undergoing rapid growth, there is a heightened need for high-performance drones equipped with all manner of functionality in addition to conventional aerial photography applications. Tamron develops and supplies aerial photography lenses as consumer drone lenses, as well as lenses for cinema use. Tamron is also looking to supply industrial drone lenses expected to be in higher demand moving forward.

Camera Module
In addition to lenses, Tamron utilizes the technologies and know-how, which has amassed in the security market, to develop Ultra-Compact Camera Module equipped with a revolutionary optical VC (Vibration Compensation) mechanism. Despite being fitted with damping technologies to control vibrations during recording, they are surprisingly compact and lightweight.

Camcorder Lenses / Digital Still Camera Lenses
Leveraging technologies and expertise cultivated over many years together with leading-edge technologies, Tamron develops and supplies optical lens units that support image sensors with increasingly high pixel counts.

Automotive Camera Lenses
As lawmakers enact tighter laws and regulations to ensure automotive safety and manufacturers continue to equip vehicles with advanced driving assistance systems (ADAS), vehicle-mounted cameras have become increasingly common not only for enhancing visibility but also providing sending features, resulting in the increased importance of high-performance lenses.

Optical Device Units
Tamron has developed a range of high-precision lens components. The lineup includes various aspherical lens elements, thin film-coating products using special multilayer films, and ultra-high precision test plates that can quickly and accurately verify the profile irregularity of lens surfaces.

High-precision Plastic Injection Molds
To better meet diversifying market needs and speedily develop and manufacture excellent products, Tamron maintains plants for the design and production of plastic molds. The plants manufacture molds for all kinds of precision equipment and optical-equipments parts.