LENS CATALOGUE
Uncover your creativity

For nearly 70 years, Tamron lenses have been the “creative eyes” of passionate photographers in the whole world. Our advanced optical technology guarantees shots full of details and assists you in recording the important moments in life in impressive images for eternity.
28-200mm F/2.8-5.6
The fast travel zoom for unforgettable images

The 28-200mm F/2.8-5.6 Di III RXD is the first travel zoom with a power of F/2.8*. It is the ideal choice for everyone who wants a powerful and lightweight lens for a wide variety of motifs for everyday life and holiday.

Whether landscape panoramas, portraits or telephoto shots full of details - with the large zoom range of the new 28-200mm F/2.8-5.6 Di III RXD, every motif can be captured in excellent image quality. Special lenses and the high power of F/2.8-5.6 ensure sharp and brilliant photos even with little light. The professional photographer Philip Ruopp is impressed with the performance of the new travel zoom. "At 28 mm I can get up to 0.19 m close to the motif. In combination with the wide aperture F/2.8 and the seven rounded aperture blades, beautiful close-ups with a really charming background blur are possible."

28-200mm F/2.8-5.6 Di III RXD
Several special lenses minimise chromatic aberrations and ensure an evenly high imaging performance in the wide angle and the telephoto range. Despite the large zoom range and the sophisticated optical design, the lens has a length of only 117 mm and weighs just 575 g.

"With an aperture of F/2.8 at a focal length of 28 mm, images are created with impressive depth effect."

Philip Ruopp,
Outdoor and sports photographer,
Laichingen

Advantages of travel zoom lenses

1. Wide range
With a focal length from wide-angle to the telephoto, travel zoom lenses are suitable for panoramic pictures as well as for detailed close-ups of people.

2. Lightweight and compact
Modern technologies and high-quality materials ensure compact dimensions and low weight, so you always like to take your travel zoom with you.

28-200mm at 28 mm · F/10 at 1/5 sec. · ISO 100
28-200mm at 50 mm · F/8 at 1/800 sec. · ISO 100
28-200mm at 73 mm · F/6.5 at 1/1600 sec. · ISO 100
28-200mm at 53 mm · F/4.5 at 1/1600 sec. · ISO 100
28-200mm at 30 mm · F/5.6 at 1/500 sec. · ISO 100
28-200mm at 38 mm · F/10 at 1/500 sec. · ISO 100
28-200mm at 28 mm · F/3.5 at 1/60 sec. · ISO 1600
28-200mm at 28 mm · F/2.8 at 1/2500 sec. · ISO 100
28-200mm at 28 mm · F/4 at 1/500 sec. · ISO 100

* Greatest power with currently available travel zoom interchangeable lenses with at least 7x magnification (status: May 2020, Tamron Survey)
E-Mount fixed focal lengths

Compact trio for images at the highest level

20mm, 24mm and 35mm – three handy wide-angle lenses with uniform dimensions and a large image scale. These fixed focal lengths were designed for photographers who want to give their creativity new expression.

20mm F/2.8 Di III OSD M1:2

The large image angle of this ultra wide angle lens is optimal for fascinating image compositions and extensive panoramas. With the short focusing distance of only 0.11 m, you can take pictures with a strong perspective and dramatic depth.

Di III
OSD
MR
FLR
LD
FOR FULL FORMAT
SONY DSLM
Model F050

24mm F/2.8 Di III OSD M1:2

Handy super wide-angle lens for thrilling coverage and landscape shots. The low focusing distance (0.12 m) enables exciting close-ups with a magnification of 1:2. As with all E-Mount lenses from Tamron, the filter diameter is 67 mm.

Di III
OSD
MR
FLR
LD
FOR FULL FORMAT
SONY DSLM
Model F051

35mm F/2.8 Di III OSD M1:2

With a length of 64 mm and a diameter of 73 mm, this wide-angle lens has the same dimensions as the other fixed focal lengths of the E-Mount series. The power of F/2.8 and the fast, quiet OSD autofocus form part of the common grounds of these lenses.

Di III
OSD
MR
FLR
LD
FOR FULL FORMAT
SONY DSLM
Model F053

"With the 24 mm wide-angle lens, I can take pictures close-up – ingenious macros with a 1:2 magnification are successful."

Klaus Wohlmann, travel and street photographer, Enger

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E-Mount lenses

Fast all-rounders for the mirrorless full format

17-28mm, 28-75mm and 70-180mm – this trio sets new standards for fast zoom lenses. With a continuous open aperture of F/2.8 and compact dimensions, they are ideal for a variety of different motifs.

The introduction of the E-Mount lenses has brought a new era in Tamron’s history. The three zoom lenses – the 17-28mm F/2.8 Di III RXD, the 28-75mm F/2.8 Di III RXD and the new 70-180mm F/2.8 Di III VXD – stand for high optical quality and technological innovation. The outdoor and sports photographer Phillip Ruopp appreciates the continuous power of F/2.8 and the exceptionally high resolution of the lenses. Optical special glasses ensure an excellent image at every focal length. "Sharpness and details are phenomenal," says Ruopp. "The autofocus is lightning fast and to the point, even in dynamic scenes." Practical: The three zoom lenses are not only surprisingly light, but also very handy with a uniform filter size of 67 mm.

Advantages of the E-mount trinity

➊ Professional power
The continuous aperture of F/2.8 offers maximum design freedom and ensures a beautiful bokeh. The main motif can be staged in razor-sharp against a soft background.

➋ Lightweight and compact
Tamron’s E-Mount zoom lenses are very compact and light. In conjunction with a mirrorless system camera, they are perfectly balanced and together only weigh 1,780 grammes.

➌ Fast and quiet autofocus
RXD and VXD autofocus were developed especially for compact system cameras. They focus quickly, precisely and silently on the motif - ideal not only for photos, but also for high-quality video recordings.

17-28mm F/2.8 Di III RXD
Fast wide-angle zoom lens for particularly dynamic perspectives. With a length of 99 mm and a weight of just 420 g, it is exceptionally compact and lightweight for its class. LD and XLD lenses guarantee a brilliant imaging performance.

28-75mm F/2.8 Di III RXD
Powerful standard zoom lens with F/2.8 power for shots with attractive background blur (bokeh). Perfect for a wide range of motifs, from landscape to architecture to portraits. With a length of 117.8 mm and a weight of 550 g particularly light and compact.

70-180mm F/2.8 Di III VXD
The pleasantly compact and light telephoto zoom with high power is equipped with the innovative VXD autofocus and is fully compatible with the fast hybrid AF and the eye AF of the camera. As with the other lenses of the E-Mount series, filters with a diameter of 67 mm can be screwed on.

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70-180mm at 180 mm · F/2.8 at 1/400 sec. · ISO 800

70-180mm at 70 mm · F/2.8 at 1/125 sec. · ISO 400

70-180mm at 180 mm · F/2.8 at 1/125 sec. · ISO 800

17-28mm at 17 mm · F/4 at 1/2500 sec. · ISO 320

70-180mm at 180 mm · F/2.8 at 1/125 sec. · ISO 400

28-75mm at 35 mm · F/4.5 at 1/1600 sec. · ISO 100

70-180mm at 180 mm · F/2.8 at 1/125 sec. · ISO 400

17-28mm at 17 mm · F/4 at 1/2500 sec. · ISO 320

28-75mm at 35 mm · F/4.5 at 1/1600 sec. · ISO 100
G2 Trinity
Highest image quality and performance for professional demands

The Tamron Trio SP 15-30mm F/2.8, SP 24-70mm F/2.8 and SP 70-200mm F/2.8 leaves nothing to be desired with respect to photography. Not without reason, the powerful G2-Trinity is part of the standard equipment of demanding professional photographers.

he cites another reason why many professionals choose Tamron’s G2-Trinity SP 15-30mm G2, SP 24-70mm G2 and SP 70-200mm G2 with F/2.8 aperture: the sturdy design and durability of the lenses. “Regardless whether storm, rain or snow - I cannot take into account my high-quality equipment when photographing if I need to move fast”, explains the experienced storm chaser and weather photographer. “Tamron meets all my requirements for a tough lens with the SP series.”

“With the fast zooms of the SP series, I can capture landscapes and weather phenomena exactly as I have seen and experienced them with my own eyes.”

Bastian Werner, Weather and landscape photographer, Mühltal

When it comes to photographic equipment, professional photographers like Bastian Werner do not compromise. They need lenses that are to class both visually and mechanically. “Highest image quality and maximum sharpness are a must in any case. But I do not want to miss the fast ultrasound autofocus and a solid image stabilisation in everyday life”, says Werner. And

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The Hamburg advertising photographer Thomas Kettner regularly uses the zoom lenses and fixed focal lengths of the SP series in his commissioned work for clients from various industries. “The resolution and the optical correction of the lenses are outstanding”, he says. As his photographs are also used as large-scale campaign motifs, Kettner pays special attention to the focus. “If the sharpness is not perfect, you can see it immediately when enlarging” he says. “Luckily I can rely on the USD autofocus in every way. The reject is much lower than with conventional lenses.”

Advantages of the SP Trinity

1. High power and professional image quality
   High-quality special optical glasses guarantee excellent reproduction performance. The constant aperture of F/2.8 offers the photographer maximum freedom of design.

2. Sturdy construction
   SP lenses are designed for everyday use. The sturdy metal housing is sealed elaborately and the front lens with an easy-to-clean fluorine coating is protected from contamination.

3. Powerful dual processor
   The integrated dual MPU ensures a fast and precise ultrasonic autofocus as well as an exact image stabilisation. The photographer can rely on his lens in any situation.

“Tamron SP lenses combine reliably high image quality with impressive equipment. The price/performance ratio is simply unbeatable.”

Thomas Kettner, Advertising and fashion photographer, Hamburg

SP fixed focal lengths
Maximum image quality, no compromise

Fast fixed focal lengths guarantee maximum image quality and comfort. Professional photographers appreciate the unrivalled high sharpness, the perfect reproduction and the handy dimensions of these lenses.
Modern zoom lenses for passionate photographers

The sophisticated balance between high power and compact design - these two zoom lenses with aperture F/2.8-4 are the ideal companion for mobile photographers who do not want to give up high image quality.

The best lens is the one that you take along just in case. And with the compact zoom duo, there is no excuse any more. Together, 17-35mm and 35-150mm only weigh around 1.25 kg, making them the optimal choice for all photographers who do not want to forego high image quality and design options, even on summer holidays, family outings or hikes. The high power of F/2.8 to F/4 allows creative play with sharpness and blur. "The 17-35mm covers the wide-angle range and is ideal for architectural and landscape shots with beautiful depth," says Martin Krolop, professional photographer from Cologne. "And the directly adjacent 35-150mm goes into the classic telephoto range and is therefore particularly suitable for portrait shots with attractive background blur." With the large aperture, the background can be resolved in soft blur - ideal for images with a professional touch.

17-35mm F/2.8-4 Di OSD
Compact and lightweight wide-angle zoom lens, which is convincing for coverage and landscape photos. The combination of short focal length and short close range of only 0.28m allows expressive close-ups. The BBAR coating ensures brilliant images even in backlight conditions.

35-150mm F/2.8-4 Di VC OSD
Handy telephoto zoom with an astonishingly large range. With its wide open aperture, it offers the optimal balance between perfect sharpness and brilliant bokeh. The powerful dual MPU ensures fast autofocus and accurate image stabilization.

Advantages of the compact zoom duo

➊ Compact construction
Lightweight materials and a modern construction make these high quality lenses particularly handy. Together, the 17-35mm and the 35-150mm only weigh about 1,250 grams. Light enough to carry along on long outdoor tours.

➋ High power
With a maximum aperture of F/2.8 in the wide-angle and F/4 in the telephoto, the compact zoom lenses are exceptionally fast. Ideal conditions for professional shots with beautiful background blur (bokeh effect).

➌ VC image stabiliser and OSD autofocus
The VC image stabiliser provides sharper images by preventing unsightly shaking in low light. The OSD autofocus focuses on the motif quickly, precisely and silently. It is thereby also suitable for video recordings.

18-400mm F/3.5-6.3 Di III VC HLD
The 22.2-times Ultra-Telephoto megazoom is a versatile travel companion. Despite its compact size and low weight, it offers an enormous range up to 600 mm (equivalent to the 35mm format). Even far-away subjects can be zoomed in thereby. HLD autofocus and VC stabilisation ensure successful, sharp shots even in low light.

Many focal lengths, one lens. With the surprisingly handy 22.2x Ultra telephoto Megazoom you discover new perspectives and record unforgettable moments exactly as you would like to remember them.

Does a single lens exist that meets virtually all wishes? The answer is: yes, the travel zoom 18-400mm from Tamron. As its name already implies, it is perfect for holidays and leisure, because it includes a whole series of lenses! From wide-angle to super telephoto, all types of motifs can be photographed. "Whether extensive panoramas or expressive portraits with beautiful background blur - the 18-400mm for DSLR cameras with APS-C sensor is a good choice for any purpose" says the Cologne photographer duo Sallyhateswing, who prefers to have light luggage on holidays. "Among others, the travel zooms from Tamron have already taken us to Rome and Lisbon – and thanks to them, we have seen the cities in a new light. The long range is perfect for capturing architectural and scenic details or to condense the image detail."

17-35mm at 17 mm · F/8 at 2 sec. · ISO 100

18-400mm at 23 mm · F/9 at 1/500 sec. · ISO 800
SP 90mm F/2.8 Macro
Finest details really big

Telephoto zooms Close to the action

Long telephoto focal lengths also always mean a long range. With Tamron’s telephoto zooms, even distant details can be photographed at close range.

Fast, faster, fastest - the more speed in the game, the closer lifestyle and action photographer Oliver Güth wants to be in on the action. But he cannot always stand next to the athletes to capture their performance in the image. The solution is telephoto zoom lenses, with which the event can be magnified. Tamron has several models on offer: While the lightweight 70-210mm is particularly suitable for nature photography, the compact 100-400mm and the larger SP 150-600mm G2 are also ideal for sports photography. “All achieve high optical performance”, says Güth. “And if I even want to get closer with them, I can extend the focal length with one of the two teleconverters from Tamron by 1:4 or 2:0 times.”

“The long focal lengths of telephoto zooms are ideal for sports photography - thrilling action shots and professional portraits succeed this way.”

Oliver Güth, Sports and lifestyle photographer, Cologne

90 mm · F/8 at 0.5 sec. · ISO 320

100-400mm at 340 mm · F/6.3 at 1/5000 sec. · ISO 500

30-210mm at 310 mm · F/5.6 at 1/500 sec. · ISO 1000

100-400mm at 460 mm · F/6.3 at 1/5000 sec. · ISO 640

150-600mm at 600 mm · F/7.1 at 1/2500 sec. · ISO 400

70-210mm F/4 Di VC USD
A compact telephoto zoom with a continuous power of F/4. Despite its complex optical design with 20 lenses in 14 groups, this lens weighs only 850 g. It is exactly right for those who like to go on extensive outdoor tours to experience nature and wildlife up close and take photos.

100-400mm F/4-6.3 Di VC USD
Handy super telephoto zoom lens with a long range, which can additionally be extended with a Tamron teleconverter. The dual MPU ensures a very precise focus even with continuous autofocus (AF-C) with simultaneous image stabilisation. The tripod clamp is available as an optional accessory.

SP 150-600mm F/5-6.3 Di VC USD G2
Powerful ultra telephoto zoom lens, designed specifically for ambitious wildlife and sports photography. Three VC image stabilisation modes, three LD elements as well as eBAND and BBAR coating ensure high image quality. In addition, the exclusive Flex Zoom Lock allows the fast fixation of the zoom in any position.
Further zoom lenses

Discover the whole Tamron world! Our current portfolio includes lenses for the most diverse purposes. Whether travel or coverage, portrait or landscape - with zoom lenses from Tamron you unleash your creativity.

10-24mm F/3.5-4.5 Di II VC HLD
Ultra wide-angle zoom lens for APS-C cameras with image stabilisation and fast HLD autofocus. Ideal for creative nature and architecture photography. An aspherical lens and LD elements provide exceptional resolution over the entire zoom range.

18-200mm F/3.5-6.3 Di II VC
Classic high-power zoom lens that brings all the benefits of a perfect travel lens for beginners: It is not only compact, light and sturdy, but also has a large telephoto range, allowing you to zoom in on distant subjects or fascinating details.

16-300mm F/3.5-6.3 Di II VC PZD MACRO
This 18.8x megazoom for DSLR cameras with APS-C sensor expands the photographic possibilities with modern optical technology. It covers the huge focal length range from 16 mm to 300 mm, which corresponds to the equivalent of a 495mm ultra telephoto.

More lenses can be found under: www.tamron.de

Warranty and service

Our customer service will be happy to help you with questions about your lens or with technical problems.

5 year warranty
The quality of Tamron lenses is guaranteed. In addition, Tamron offers its customers the option of a free warranty extension of five years. In order to be able to claim this in the event of a defect, register your lens within two months after the purchase online under 5years.tamron.eu.

Further information under: www.tamron.eu/de/service/5-years-warranty.

Repairs
The quality of Tamron products is carefully checked before leaving the factory. However, should your lens ever malfunction because of defective, please contact our customer service. If there is a warranty claim, Tamron will repair the lens free of charge or replace it for free with a replacement device of the same series.is comparable successor model. If a warranty claim does not exist, we will inform you about repair options and will be happy to make you an appropriate offer for the quickest possible repair of your lens.

Customer service
Do you have questions about our products and offers or do you need help with operating a lens? Our friendly customer service will be happy to help.

Tamron Europe GmbH, customer service Robert Bosch-Strasse 9, 50769 Cologne
Telephone: +49 (0) 221 669 544-135
Email: service@tamron.de
Service hours: Mo to Th, 8:30 am – 4:30 pm, Fr, 8:30 am – 3:00 pm
For more information to our customer service and answers to frequently asked questions please visit: www.tamron.eu/de/service

About Tamron

Since its founding in 1950, Tamron Co., Ltd. has been developing high-precision optical products for various applications. Today, we are among the world’s leading companies in the optical industry. In addition to photo lenses, we manufacture among others optical systems for use in industry, transport and security.

Tamron employs approximately 5,000 people worldwide. In addition to the headquarters in Saitama north of Tokyo, there are branches in the USA, Germany, France, Russia, China and India. Tamron lenses and components are manufactured in two factories in northern Japan and two production sites in China and Vietnam.

For nearly seventy years now, Tamron’s primary goal has been to grow collaboratively to deliver the highest level of customer satisfaction, to ensure the well-being of our customers, employees and shareholders. We will continue on this path in the future.

The subsidiary of Tamron Europe GmbH in Cologne was founded in 1982. Today, around seventy people work here.

The company name Tamron goes back to Mr. Ushio Tamura, a widely acclaimed optical engineer who has laid the foundation for Tamron’s success with his technological developments.

Historic milestones
- 1957 The 135mm F/4.5 is Tamron’s first camera lens for mirror reflection cameras
- 1961 The industrially manufactured 95-205mm F/6.3 is the first affordable SLR telephoto lens
- 1966 “Tamron Adapt-A-Matic” interchangeable lenses with autofocus function
- 1979 The “Super Performance” (SP) series celebrates its début
- 2015 “Human Touch” redesign of the SP series
- 2017 The 18-400mm F/3.5-6.3 is the world’s first 22.2x ultra telephoto megazoom SLR lens
- 2018 Start of the new lens generation for Sony E-Mount

More lenses can be found under: www.tamron.de
Our technologies

Since the founding of Tamron in 1950, we have come a long way. From an ambitious start-up to one of the world’s leading companies in the optical industry. The unique success story of Tamron is based on our expertise of over 70 years and the continuous development of innovative technologies. They support photographers around the world to realise their creative visions.

Super Performance (SP) – Lenses for highest professional demands

For 40 years, the abbreviation "SP" stands for Tamron lenses that meet the highest photographic standards. When developing these lenses, the best possible image quality is always the focus. Through the use of advanced optical technologies, excellent reproduction performance is achieved, guaranteeing maximum sharpness and detailed reproduction from the centre to the edges of the image. When designing the housing, the developers pay attention to high-quality, extremely durable materials as well as a comfortable, intuitive operation. The result is an innovative lens series that stands out from the crowd. Those looking for stellar performance need look no further than Tamron’s SP lenses.

LD and XLD lens elements

LD (Low Dispersion) and XLD (Ultra Low Dispersion) elements are manufactured of special glass materials that have low colour dispersion indices. They reduce chromatic aberrations, which appear as colour fringes on the contrast edges and reduce image sharpness. Wide-angle and telephoto focal lengths are mainly affected by this.

XLD elements are made from high-performance optical glass with an extremely low colour dispersion index. Their properties correspond to those of high-quality fluorite elements, which can also be used to correct problematic chromatic aberrations. Even in the critical border areas of the image, a high resolution is achieved.

Hybrid aspherical elements

The abbreviation "ASL" (ASpherical Lens) indicates hybrid aspherical lens elements. These correct typical imaging errors of zoom lenses, for example, spherical aberrations (sharpness errors). In addition, they can replace several other optical elements, which favours a more compact design with consistently high image quality.

XR and UXR special glasses

XR (Ultra Refractive Index) and UXR elements (Ultra Xtra Refractive Index) are optical glasses with a particularly high refractive index. Their properties allow a shorter overall length and therefore lighter lenses with smaller diameters, without changing the aperture size.

AD elements

Anomalous dispersion (AD) optical lenses help reduce chromatic aberrations at high frequencies of light. The combination of AD elements with different lenses made from normal optical glass makes it possible to control light dispersion at specific wavelengths.

Anti reflex and high tech coatings

The surfaces of the lenses are coated elaborately. The multiple coatings contribute significantly to the high reproduction performance of Tamron lenses.

The BBAR coating prevents light incident on the lens surface from being reflected and scattered. Brightness and contrast losses are avoided and "ghost images" are prevented. The BBAR coating also contributes to a natural colour rendering. Since 2019, the advanced BBAR G2 coating has been used.

The eBAND coating consists of a wafer-thin nanostructure (1 nm = 1/1,000,000 mm) with an extremely low refractive index. In combination with the underlying multi-coating, an outstanding anti-reflection effect is achieved.

The fluoride coating permanently protects the front lens from contamination. Oil and water drops do not adhere to the surface, which is therefore very easy to clean.
Fast, precise and quiet autofocus motors

All Tamron lenses have a powerful auto-focus system. Depending on the model, the auto focus is powered by a variety of motors.

- In the lenses of the SP series, USD motors (Ultrasonic Silent Drive) are used, that convert ultrasonic waves into torque and thus enable a high precision, high speed and near-silent focussing. The technology is based on a rotor and does not require a transmission between the motor and the focus ring. The photographer can thus manually intervene in the focus at any time. The USD autofocus is optimally suitable for fast and dynamic motifs, for example in professional sports, wildlife and coverage photography.

- The OSD (Optimised Silent Drive) enables a pleasant quiet focussing. Lenses equipped therewith are ideal for situations in which absolute silence is required when taking photographs. In addition, the OSD autofocus is particularly responsive and adjusts to sharpness very precisely sharp, which has a positive effect, for example, in subject tracking.

- The RXD (Rapid extra silent Drive) technology is based on a stepper motor, whose drive element controls the rotation angle precisely and silently; a sensor continuously determines the current focus setting of the lens. The RXD motor is so powerful that even videofilmmers can continuously keep moving objects in the focuss range.

- The HLD (High / Low Torque Modulated Drive) is a highly energy efficient motor that generates powerful torque to provide precise and quiet focussing. He curved HLD unit can be integrated into the lens design to save space and thus allows the construction of convincingly compact lenses.

- The Piezo Drive (PZD) is also curved and the predecessor of the compact HLD motor. It is installed in the rear part of the lens to save space and is mainly used in the handy megazoom lenses from Tamron, which cover an exceptionally large focal length range with their complex zoom mechanism.

Zoom lock mechanism

For lenses with internal focussing, the extension length does not change when focussing, and the filter ring does not rotate with it. This facilitates handling, especially of longer telephoto zoom lenses, as well as photographing with polarization and gradation filters. Further advantages include the shorter focussing distance over the entire focus range and the lower light losses in the image corners (wrongly called) and less focus-related image artifacts.

Multiple-cam mechanism

When developing compact zoom lenses, one challenge is to ensure a smooth and jerk-free extension of the lens tube. Tamron solves this problem using the multiple-cam mechanism with several precision curves in the cylindrical surface of the lens chassis. These enable sensitive movements in the wide-angle range and a constant extension in the telephoto range.

Dynamic Rolling-Cam mechanism

The Dynamic Rolling-Cam mechanism ensures fast and precise autofocus even on lenses with relatively heavy focus groups. The innovative technology, pioneered by the SP 35mm F/1.4 Di USD, represents a breakthrough in technology, ensuring reliable autofocus performance even in the most demanding professional shooting situations (e.g. in extremely cold or hot environments).

Dual MPU

Certain Tamron lenses are equipped with a dual MPU (Micro Processing Unit). This powerful dual processor has two parallel processor units that ensure instantaneous processing of the autofocus and VC image stabilizer digital signals. The lens reacts lightning fast to the commands of the camera. The result is a very precise focussing - even in dynamic shooting situations - with high-precision image stabilisation at the same time.

Focal length comparison

Top row: 35mm format - Full format
Bottom row: APS-C sensor
Crop factor 1.55

*Equivalent to small format - large format

VC image stabilisation

The VC mechanism (Vibration Compensation) developed by Tamron compensates for unwanted camera movements without delay and thus contributes to increased image sharpness. The optical image stabilisation is controlled by highly sensitive gyro sensors, which control the VC lens group resting on low-friction ball bearings. With the VC mechanism, the photographer can take up to 5 EV stops slower shutter speeds when shooting by hand and also gets a quieter viewfinder image. Newer telephoto zoom lenses in the Tamron SP series have up to three VC modes for different shooting situations.

VC Element (compensation system)

- Ceramic balls
- Magnet
- Driving coils
- Bracket

Structure of the VC unit in model 70-210mm F/4 Di VC USD

Spray water protection

Tamron lenses have a weatherproof housing that optimally protects the sensitive interior against wind and weather. The sturdy outer casing is effectively sealed against moisture ingress at all critical points (e.g. between focus ring and tube or bayonet connection). This guarantees reliable operation even in the most adverse outdoor shooting conditions.
<table>
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<th>WEIGHT</th>
<th>DIMENSIONS (mm)</th>
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<td>1.08</td>
<td>100 x 210</td>
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</table>

**Tap-in Console**

With the TAP-in Console and the free TAP-in utility software, the lens firmware can be updated and the operation of the lenses individually adapted. Among other things, settings can be made that previously could only be done on site at the Tamron service. The configurable parameters include: Focus adjustment, setting the focus limiter, optimisation of the manual focus function and calibration of the VC image stabiliser.


**Teleconverter**

With the teleconverters TC-X14 and TC-X20, the focal length of compatible Tamron lenses is extended by the factor 1.4 or 2.0. The high imaging performance of the lens remains unaffected.

**Tripod clamp**

With the ARCA/SWISS compatible tripod clamps, Tamron SP series telephoto zoom lenses, as well as the 70-210mm F/4 Di VC USD and the 100-400mm F/4.5-6.3 Di VC USD, can balance optimally on the tripod.
LENS OVERVIEW

II
For digital SLR cameras with APS-C Sensor

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal Length</th>
<th>Angle of View (diagonal)</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-24mm f/3.5-4.5 Di II VC</td>
<td>10-24</td>
<td>100°54’-60°30’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
</tr>
<tr>
<td>16-300mm f/5.6-6.3 Di II VC PZD MACRO</td>
<td>16-300</td>
<td>82°12’-5°20’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
</tr>
<tr>
<td>5P AF 17-50mm F/2.8 XR Di II VC Aspherical [IF]</td>
<td>17-50</td>
<td>70°26’-31°11’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
</tr>
<tr>
<td>5P AF 17-50mm f/2.8 XR Di III LD Aspherical [IF]</td>
<td>17-50</td>
<td>70°26’-31°11’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
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<tr>
<td>18-200mm f/3.5-6.3 Di III VC</td>
<td>18-200</td>
<td>70°14’-3°15’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
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<tr>
<td>70-180mm F/2.8 Di III VXD</td>
<td>70-180</td>
<td>34°21’-13°42’</td>
<td>PH 28, PH 28S, PH 30, PH 30S, PH 40, PH 40S</td>
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</tbody>
</table>

Notes

1. If the problem continues, please switch the camera off and remove the battery. Re-insert the battery and switch the camera back on.
2. Minimum focusing distance over the entire range of focal lengths.
3. Weight including the removable tripod mount ring. Unless otherwise stated, the weights refer to the Nikon mount.
4. The weight of the lens is defined by the distance from the contact surface on the camera body to the brass thread on the lens tip. The values regarding weight apply to the respective model with Nikon connection (except CO07, B011 and Sony E-Mount lenses).

II
For microfour thirds system cameras

<table>
<thead>
<tr>
<th>Model</th>
<th>Focal Length</th>
<th>Angle of View (diagonal)</th>
<th>Compatibility</th>
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<tbody>
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<td>94°12’</td>
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<td>24mm f/2.8 Di III 24mm 1:2.8 Di III</td>
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<td>84°04’</td>
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</tr>
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<td>35mm f/2.8 Di III 35mm 1:2.8 Di III</td>
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<td>60°20’</td>
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</tr>
<tr>
<td>14-150mm f/3.5-5.8 Di III</td>
<td>14-150</td>
<td>75°23’-32°11’</td>
<td>HA056 For SONY E-Mount with full format sensor</td>
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<tr>
<td>17-28mm f/2.8 Di III 17-28</td>
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<td>103°41’-75°23’</td>
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<tr>
<td>18-200mm f/3.5-6.3 Di III VC</td>
<td>18-200</td>
<td>75°26’-3°15’</td>
<td>HA056 For SONY E-Mount with full format sensor</td>
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<tr>
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<tr>
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<td>34°21’-13°42’</td>
<td>HA056 For SONY E-Mount with full format sensor</td>
</tr>
</tbody>
</table>

Notes

1. The blades form an almost circular shape when the aperture is open. This shape is hardened largely when stopping down to two to six blades.
2. Minimum focusing distance over the entire range of focal lengths.
3. Weight including the removable tripod mount ring. Unless otherwise stated, the weights refer to the Nikon mount.
4. The weight of the lens is defined by the distance from the contact surface on the camera body to the brass thread on the lens tip. The values regarding weight apply to the respective model with Nikon connection (except CO07, B011 and Sony E-Mount lenses).

LENS OVERVIEW

Design and haptics
Tamron not only values technological innovation, but also pays particular attention to the design of its products. When designing the lenses, the developers are guided by the concept of the “Human Touch”, a harmonious design language that combines pleasant haptics and intuitive operation.

The light golden ring, which connects the lens to the camera, symbolizes thereby the connection between Tamron and the photographers.
You can also find news, interviews and reports from the world of Tamron online.

www.tamron.eu/de/magazin/blog/