

# TAMRON

## LENS CATALOG

BETTER LENSES MEAN BETTER PHOTOGRAPHY.

### AF ZOOM LENS

SP AF11-18mm F/4.5-5.6 Di-II LD Aspherical (IF),  
 SP AF17-35mm F/2.8-4 Di LD Aspherical (IF), AF 19-35mm F/3.5-4.5,  
 AF18-200mm F/3.5-6.3 XR Di-II LD Aspherical (IF) MACRO,  
 SP AF24-135mm F/3.5-5.6 AD Aspherical (IF) MACRO,  
 SP AF28-75mm F/2.8 XR Di LD Aspherical (IF) MACRO,  
 AF28-80mm F/3.5-5.6 Aspherical, SP AF28-105mm F/2.8 LD Aspherical (IF),  
 AF28-105mm F/4-5.6 (IF), AF28-200mm F/3.8-5.6 XR Aspherical (IF) MACRO,  
 AF28-300mm F/3.5-6.3 XR Di LD Aspherical (IF) MACRO,  
 AF70-300mm F/4-5.6 LD MACRO 1:2,  
 AF75-300mm F/4-5.6 LD MACRO,  
 SP AF200-500mm F/5-6.3 Di LD (IF)

### AF FIXED FOCAL LENS

SP AF14mm F/2.8 Aspherical (IF), SP AF90mm F/2.8 Di MACRO 1:1,  
 SP AF180mm F/3.5 Di LD (IF) MACRO 1:1, SP AF300mm F/2.8 LD (IF)

### MF LENS

28-70mm F/3.5-4.5, SP 28-105mm F/2.8 LD Aspherical (IF),  
 28-200mm F/3.8-5.6 LD Aspherical (IF) Super, SP 70-210mm F/3.5,  
 70-210mm F/4-5.6, SP 60-300mm F/3.8-5.4, 24mm F/2.5,  
 SP 90mm F/2.8 MACRO 1:1, SP 300mm F/2.8 LD (IF), SP 500mm F/8

## A New Generation of High Power Zoom Lenses Designed for Digital SLR Cameras.



**Di (Digitally integrated design)** is the designation Tamron puts on lenses featuring optical systems designed to meet the performance characteristics of digital SLR cameras. Enhanced performance benefits film users too.

**Di-II** lenses are designed for exclusive use on digital cameras with smaller-size imagers and inherit all of the benefits of our Di products. These lenses are not designed for 35mm film cameras and digital cameras with image sensors larger than 24mm x 16mm.

At Tamron, our quest has always been to make the ideal zoom lens. As a result of this ongoing challenge, we have introduced the concept of our high-power zoom lens in the new AF18-200mm XR Di-II for exclusive use with digital SLRs. Tamron's original development of proprietary core technologies such as Aspherical element production, Multiple Cam Mechanism and Integrated Focus Cam design lend to the creation of the world's lightest, most compact 11.1X zoom lens made for digital SLR cameras\*. The AF18-200mm XR Di-II (28-300 when converted to 35mm) provides the digital photographer with the versatility of a true wide to ultra tele zoom in an amazingly easy to use design. Paired with the new SP AF11-18mm Di-II (17-28 when converted to 35mm) built to exacting Super Performance design specifications, you'll be equipped for superb imaging of just about every subject with your Digital SLR.

\*As of January 1, 2005. Based on Tamron research of lenses in the same class.

### Greater Compactness Through XR Technology

Reducing the total length of the optical configuration, we succeeded in developing optics that allow for a smaller lens diameter while maintaining the same aperture values as previous lenses for overall compactness. Optical power distribution was enhanced in a compact package through the innovative use of XR (Extra Refractive Index) glass, resulting in minimal aberration. (models A014/A061/A03/A09)

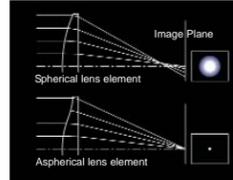


**Superior Performance with Digital SLRs & Film Cameras** Di, Di-II (Digitally Integrated design) Di is the designation Tamron puts on lenses featuring optical systems designed to meet the performance characteristics of digital SLR cameras. The same high performance is delivered when these lenses are used with conventional AF cameras using silver halide film. (Di models A05/A061/A08/A09/272E/B01; Di-II models A013/A014)

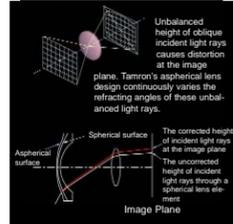
### Hybrid Aspherical Elements Provide the Ultimate in Compactness and Image Quality

Through application of Tamron's exclusive Hybrid Aspherical technology (which can take the place of multiple optical elements), a never-before-possible level of image quality and compactness has been attained in lenses like the AF28-300mm Di, AF18-200mm Di-II and SP AF28-75mm Di.

#### • Compensation for Spherical Aberration with Aspherical Lens Elements



#### • Distortion Correction (barrel-type) with Aspherical Lens Elements

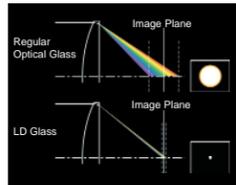


### Special Glass Materials Used For High Image Quality - LD (Low Dispersion) and AD (Anomalous Dispersion) Lenses

In order to reduce and eliminate secondary (residual) chromatic aberration that cannot be removed by conventional optical glass, we have actively incorporated special, highly effective LD (Low Dispersion) and AD (Anomalous Dispersion) glass materials. These costly glass materials result in clear, vivid image quality.

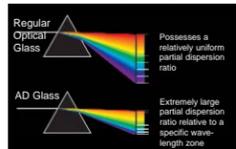
#### About LD (Low Dispersion)

Chromatic aberration is a form of optical noise that reduces the sharpness of an image. LD elements are made from special glass materials with extremely low dispersion indices (characteristics that separate or refract a ray of light into rainbow colors) that effectively compensate for chromatic aberration that is particularly a problem at the telephoto end.



#### About AD (Anomalous Dispersion)

Anomalous Dispersion glass is a special optical glass that delivers an abnormally large partial dispersion ratio (amount of dispersion at a given wavelength range within visible light) relative to a specific wavelength zone. By combining AD glass elements with elements made of normal glass with different dispersion characteristics, dispersion factors of a specific wavelength can be controlled, resulting in effective compensation of on-axis chromatic aberration on telephoto lenses, or lateral chromatic aberration associated with wideangle lenses of conventional optical configuration.

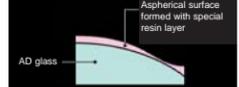


### LD-Hybrid Aspherical Element

The integration of Hybrid Aspherics applied to LD (Low Dispersion) glass elements is an ingenious lens design. The use of LD glass permits Tamron lenses to provide unparalleled optical quality while eliminating chromatic aberrations that can denigrate image contrast and sharpness. However, the mass-production of a high-performance lens as revolutionary as the Tamron AF28-105mm F/2.8 required that Tamron's engineers develop new methods of lens manufacturing. The material characteristics of the optical resin, which requires an optimized temperature during the molding process, and the fragile physical nature of LD glass during the polishing and coating process, all but prevented their use in tandem until Tamron devised a method by which a specially-treated aspherical layer could be adhered to the finished LD glass element that would ensure perfect bonding of the two elements. By precisely monitoring temperature control during the production process, two different types of lens elements are made into one enabling the Tamron AF28-105mm F/2.8 to provide image quality that other lenses simply cannot approach. (Model 176D)

### AD-Hybrid Aspherical Element

Using the same techniques as LAH, AD-Hybrid Tamron further improved the optical quality in the new A061 28-300mm by applying an aspherical layer to an AD (Anomalous Dispersion) element. (model A061)



### Internal Focusing System Delivers 1:2.9 Maximum Magnification Ratio

Aside from enhancing lens maneuverability, Tamron's Internal Focusing System provides additional benefits to users. Chief among them is a reduced Minimum Focus Distance (M.F.D.) throughout its entire focal length range. Additionally, it improves optical characteristics by minimizing illumination loss at image corners and suppresses aberrations that are caused by focusing positions. Another benefit of Internal Focusing is a stationary focusing ring - regardless of the focusing action. Quick and subtle manual focus adjustments are now a snap. The A014 18-200mm Di-II features an impressive 1:2.7 Macro at 200mm.

### AF/MF Change over mechanism for focusing ring

Switching between AF and MF is easily accomplished by sliding the focus ring back and forth. Manually focusing is smooth and precise with the wide focusing ring. (models B01/69E/272E/360E)



### Filter Effect Control (FEC)

The new Filter Effect Control (FEC) is designed to rotate the filter to the desired position while the hood is attached. This is accomplished by turning the FEC ring that in turn rotates the portion of the front of the lens where the filter is attached. (models B01/A08)



### Zoom Lock

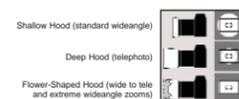
The Zoom-Lock mechanism is a feature that turns practicality into necessity for photographers who depend on the zoom lens. With frequent use as a standard zoom, the capability of the lens to lock at the most compact zoom setting is a convenient addition that prevents undesired barrel extension while carrying the camera/lens outfit around.



### Flower-Shaped Lens Hood

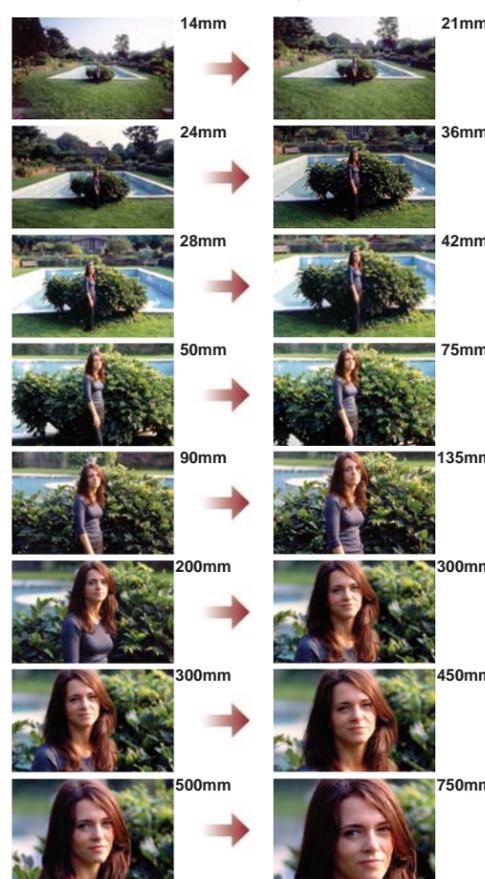
Most Tamron lenses, excluding just a few models, are supplied with a lens hood as a standard accessory. The Tamron lens hood is designed as an integral part of the optics to provide the maximum shading for each lens. For lenses with an Internal Focusing system that cover wideangle ranges, a flower-shaped lens hood is employed. This type of hood delivers the best possible shading effect even when shooting at telephoto because the edge of the hood is extended to the maximum length in the areas corresponding to the top and bottom of the image, while being cut back in the areas that correspond to both sides of the image in order to avoid vignetting at any of the four corners.

#### Effect of Lens Hood Style



### Different Angles of View

Focal Length on 35mm Film Camera vs 35mm Equivalent on Digital SLR Camera



\* Smaller size sensor (approx. 1.5X multiplier)

### Specifications

AUTOFOCUS DI-II LENSES										
Model	Focal Length	Max.F/	Length	Weight	Filter	MFD	MaxMag	Elem/Grps	Blades	Mounts
A013	SP AF11-18mm	F/4.5-5.6	3.1"	3.2oz.	77	9.8"	1.8	15/12	7	CM/N
A014	AF18-200mm	F/3.5-6.3	3.3"	14.9oz.	62	17.7"	1:3.7	15/13	7	CM/N/P

AUTOFOCUS DI LENSES										
Model	Focal Length	Max.F/	Length	Weight	Filter	MFD	MaxMag	Elem/Grps	Blades	Mounts
A05	SP AF17-35mm	F/2.8-4	3.41"	15.5oz.	77	11.8"	n/a	17/11	7	CM/N/P
A09	SP AF28-75mm	F/2.8	3.6"	18.0oz.	67	13"	1:3.9	16/14	7	CM/N/P
A061	AF28-300mm	F/3.5-6.3	3.3"	14.8oz.	62	19.3"	1:2.9	15/13	9	CM/N/P
A08	SP AF200-500mm	F/5-6.3	8.84"	43.6oz.	86	98.4"	n/a	13/10	9	CM/N
272E	SP AF90mm	F/2.8	3.8"	14.8oz.	55	11.4"	1:1	10/9	9	CM/N/P
B01	SP AF180mm	F/3.5	6.5"	34.4oz.	72	18.1"	1:1	14/11	7	CM/N

AUTOFOCUS LENSES										
Model	Focal Length	Max.F/	Length	Weight	Filter	MFD	MaxMag	Elem/Grps	Blades	Mounts
A10	AF19-35mm	F/3.5-4.5	2.7"	11.2oz.	77	19.7"	1:12	13/11	8	CM/N
190D	SP AF24-135mm	F/3.5-5.6	3.2"	18.7oz.	72	15.7"	1:3.3	14/10	7	CM/N/P
177D	AF28-80mm	F/3.5-5.6	2.8"	8.4oz.	58	27.5"	1.8	7/7	6	CM/N/P
276D	SP AF28-105mm	F/2.8	4.4"	31oz.	82	19.7"	1:4.7	15/13	9	CM/N
179D	AF28-105mm	F/4-5.6	2.9"	10.9oz.	62	19.7"	1:5.6	15/12	6	CM/N/P
A03	AF28-200mm	F/3.8-5.6	3.0"	12.5oz.	62	19.3"	1:4	15/14	7	CM/N/P
572D	AF70-300mm	F/4-5.6	4.6"	15.3oz.	62	59"	1:2	13/9	9	CM/N/P
672D	AF75-300mm	F/4-5.6	4.7"	15.3oz.	62	59"	1:3.9	13/9	9	CM/N/P
69E	SP AF14mm	F/2.8	3.4"	23.8oz.	rear	7.9"	1:6.5	14/12	5	CM/N/P
360E	SP AF300mm	F/2.8	11.2"	98.4oz.	112	98.4"	1:7.1	10/7	9	CM/N

MANUAL FOCUS LENSES										
Model	Focal Length	Max.F/	Length	Weight	Filter	MOD	MaxMag	Elem/Grps	Blades	Mounts
159A	28-70mm	F/3.5-4.5	2.5"	9oz.	52	27.5"	1:4	9/8	6	
176A	SP28-105mm	F/2.8	4.4"	31.9oz.	82	19.7"	1:4.7	15/13	9	
171A	28-200mm	F/3.8-5.6	3.1"	17.9oz.	72	31.5"	1:6.3	16/14	6	
23A	SP60-300mm	F/3.8-5.4	6.5"	32.8oz.	62	74.8"	1:1.5	15/11	8	
19AH	SP70-210mm	F/3.5	6.1"	32.5oz.	62	33.5"	1:2.6	15/11	7	
158A	70-210mm	F/4-5.6	3.1"	12.5oz.	52	43.3"	1:4	13/9	8	
01BB	24mm	F/2.5	1.7"	10.1oz.	55	9.4"	1:7	10/9	5	
72B	SP90mm	F/2.8	4.0"	15oz.	55	11.4"	1:1	10/9	9	
360B	SP300mm	F/2.8	8.4"	80oz.	112	98.4"	1:7.1	10/7	9	
555B	SP500mm	F/8	3.6"	21oz.	82	66.9"	1:3	7/4	-	

Caution: Please read the instruction manual carefully before using the lens.

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

Lens: SP AF200-500mm F/5-6.3 Model A08 Focal Length: 450mm Exposure: F/8.3 1/15sec ISO100 Location: Montana Image © Don Gale 2004

## Autofocus Di-II Lenses

**SP AF11-18mm F/4.5-5.6 Di-II LD ASPHERICAL [IF]** Model A013

This new super wide-angle zoom lens, designed for exclusive use with digital SLR cameras using a sensor smaller than full frame, provides the extended focal length covering 17mm (when converted to 35mm format) that is desired by today's advanced and pro photographers using digital SLRs. The lens features an entirely new optical system designed for optimal performance with digital SLR cameras. •Filter /Ø77mm •MFD/9.8" •Mounts/Canon AF-D, Minolta AF-D, Nikon AF-D •Flower-shaped hood. *Available Spring 2005.*

**SP SUPER PERFORMANCE** **DI** **LD** **IF** **REC** **IF**

**AF 18-200mm F/3.5-6.3 XR Di-II LD ASPHERICAL [IF] MACRO** Model A014

The new AF18-200mm F/3.5-6.3 XR Di-II LD ASPHERICAL (IF) MACRO is a high power zoom lens made for exclusive use with digital SLR cameras that inherits the product concept of the existing AF28-300mm F/3.5-6.3 XR Di. The use of high power zoom lenses has become increasingly popular since high power zooms provide the convenience of handling many photographic scenes and the capability of shooting ultra telephoto shots without changing lenses. The market influx of digital SLR cameras in recent years and the popularity of this focal length led Tamron to successfully develop the same range in a new zoom lens designed exclusively for use on digital SLR cameras. •Filter /Ø62mm •MFD/17.7" •Mounts/Canon AF-D, Minolta AF-D, Nikon AF-D, Pentax •Flower-shaped hood. *Available Spring 2005.*

**DI** **IF** **XR** **ASL** **ADH** **AD** **LD** **IF** **ZL**

## Autofocus Di Lenses (Zoom & Fixed Focal)

**SP AF17-35mm F/2.8-4 Di LD ASPHERICAL [IF]** Model A05

This super wide-angle zoom lens replaces the popular SP AF20-40mm that earned the trust of professional and dedicated amateur photographers alike with its high definition capabilities. The new lens provides the extended focal length covering 17mm that is desired by today's advanced and pro photographers, especially those using digital SLRs. The lens features an entirely new optical system designed for optimal performance with digital SLR cameras as well as film cameras. •Filter/Ø77mm •MFD/11.8" •Mounts/Canon AF, Minolta AF-D, Nikon AF-D, Pentax AF •Flower-shaped hood.

**SP SUPER PERFORMANCE** **DI** **LD** **ASL** **IF**

**SP AF28-75mm F/2.8 XR Di LD ASPHERICAL [IF] MACRO** Model A09

The Tamron SP AF28-75mm F/2.8 XR Di LD ASPHERICAL (IF) Macro utilizes the XR size reduction technology to create a fast standard zoom lens with excellent portability. With the lens' almost unbelievably compact size for a lens of this type, the image of fast standard zooms as heavy and cumbersome is turned on its head. This lens represents the first in a new category - a fast standard zoom that can be used comfortably as the lens regularly attached to a camera body. The fast F/2.8 aperture allows the use of higher shutter speeds, provides beautifully blurred backgrounds, better image performance and a reduction of noise with digital cameras since you can now use lower ISO settings. The lens also features a versatile 13" MFD throughout the range for creative close-up shooting. In addition, to meet the needs of this dual-format world (silver-halide and digital), the optical system of the lens is designed to provide optimum performance when used with the latest digital SLR cameras as well as film cameras. •Filter/Ø 67mm •MFD/13" •Mounts/Canon AF, Minolta AF-D, Nikon AF-D, Pentax AF •Flower-shaped hood.

**EISA** **SP SUPER PERFORMANCE** **XR** **DI** **LD** **ASL** **IF** **ZL**

**AF 28-300mm F/3.5-6.3 XR Di LD ASPHERICAL [IF] MACRO** Model A061

Tamron's AF28-300mm XR Di Ultra Zoom all-in-one lens is the lightest and smallest zoom of its kind and is now upgraded to a Di version for superior imaging with both film and digital cameras. This high ratio zoom lens features XR technology that contributes to its weight of only 14.8 oz. (28% lighter than the previous non-XR model 18SD) and length of a mere 3.3 in. It provides ultimate color, contrast and distortion correction due to its complex optical design that includes LD, AD and Aspherical elements. The MFD is just 19.3" throughout the entire focal length range provides an outstanding 1:2.9 maximum macro magnification for true macro photography (at 300mm). •Filter/Ø62mm •MFD/19.3" •Mounts/Canon AF, Minolta AF-D, Nikon AF-D, Pentax AF •Flower-shaped hood. \*Since an internal focusing system is used, the lens provides a wider field of view at shooting distances shorter than infinity when compared with conventional lenses at equivalent focal lengths.

**DI** **XR** **ASL** **ADH** **AD** **LD** **IF** **ZL**

**SP AF200-500mm F/5.6-6.3 Di LD [IF]** Model A08

This remarkably compact ultra telephoto zoom lens weighs only 43.6oz. It offers the perfect range for wildlife, sports, nature and more. Di designation ensures superb images with digital SLR cameras. FEC makes using polarizers extremely easy. •Filter/Ø86mm •MFD/98.4" •Mounts/Canon AF, Minolta AF, Nikon AF-D •Hood, Case, FEC.

**SP SUPER PERFORMANCE** **DI** **LD** **IF** **REC**

**SP AF90mm F/2.8 Di MACRO (1:1)** Model 272E

While inheriting the outstanding optical quality of the legendary Tamron SP90mm F/2.8 1:1 macro version it succeeds, the lens features improved multi-coating and receives Tamron's Di designation. The portability, operational ease and macro capability matched with its compactness, high resolving power and sharp image depiction with ideal background blur, make it the ideal portrait/macro lens. The SP AF90mm Di macro lens in Canon and Nikon-D mounts features an AF/MF switchover mechanism that facilitates switchover from AF to MF or vice versa instantaneously by simply sliding the focus ring back and forth. •Filter/Ø55mm •MFD/11.4" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Hood

**EISA** **SP SUPER PERFORMANCE** **DI** **AM**

**SP AF180mm F/3.5 Di LD ASPHERICAL [IF] MACRO (1:1)** Model B01

Emulating the design merits of the Tamron SP 90mm Macro, renowned and trusted by professional and amateur photographers throughout the world, the new SP AF180mm F/3.5 LD (IF) Macro 1:1 is a mid-range telephoto lens that gives the user a longer working distance needed for some macro subjects. In addition, to meet the needs of this dual-format world (silver-halide and digital), the optical system of the lens is designed to provide optimum performance when used with the latest digital SLR cameras as well as film cameras. The Canon and Nikon-D mounts features the AF/MF switchover mechanism that facilitates switchover from AF to MF or vice versa instantaneously by simply sliding the focus ring back and forth. A Polarizing filter is an essential accessory for shooting scenery, but adjusting it to the desired effect has always been a problem when lens hoods are used simultaneously. However, with the SP AF180mm F/3.5 Di LD (IF) Macro 1:1, the new Filter Effect Control (FEC) solves this common problem. Now, rotation of the polarizing filter can be accomplished even when a hood is attached by rotating the filter mount periphery. •Filter/Ø72mm •MFD/18.5" •Mounts/Canon AF, Minolta AF-D, Nikon AF-D •Hood.

**SP SUPER PERFORMANCE** **DI** **LD** **IF** **REC** **AM**

## Autofocus Zoom Lenses

**AF19-35mm F/3.5-4.5** Model A10

Tamron's AF19-35mm F/3.5-4.5 is a new affordable super wide-angle zoom ideal for travel, landscape, group portrait, adventure photography and more. Offering an authentic super wide-angle range with an angle of view of 97°-63° and a close M.F.D. of 19.68 inches, this 19-35mm provides dramatic and fun image making. The lens is easy to carry anywhere as it weighs just 10.5 ounces and is only 2.66 inches long. It also features a fixed front element group and filter mount, facilitating the use of polarizing filters. Filter diameter/Ø77mm MFD/19.68" •Mounts/Canon AF, Minolta AF, Nikon AF-D •Flower-shaped hood.

**SP SUPER PERFORMANCE** **DI** **LD** **IF** **REC** **AM**

**SP AF24-135mm F/3.5-5.6 AD ASPHERICAL [IF] MACRO** Model 190D

Covering everything from 24mm real wideangle through 135mm telephoto, this lightweight, compact lens represents a new departure in the high power zoom lens concept, with outstanding optical performance characteristics of the SP series. The optical system incorporates a new AD (Anomalous Dispersion) glass element, and four hybrid aspherical elements, resulting in ideal compensation of chromatic aberration and astigmatism. The M.F.D. (Minimum Focus Distance) of the lens is 40cm over the entire zoom range. The 135mm telephoto achieves a maximum magnification ratio of 1:3.3, making macro photography possible. A zoom lock feature is included for enhanced portability. •Filter diameter/Ø 72mm •MFD/15.7" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Flower-shaped hood.

**SP SUPER PERFORMANCE** **ASL** **AD** **IF** **ZL**

**AF28-80mm F/3.5-5.6 ASPHERICAL** Model A177D

This standard zoom lens provides a range from a wide 28mm to a medium telephoto 80mm. The use of aspherical elements in the front group reduces the number of elements required, and the use of strong engineering plastic in the barrel makes the body a light 8.4oz. •Filter diameter/Ø58mm •MFD/27.5" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Hood **ASL**

**SP AF28-105mm F/2.8 LD ASPHERICAL [IF]** Model 276D

This benchmark in standard lenses extends from 28mm to 105mm all with a fast constant 2.8 maximum aperture. The use of four large diameter aspherical elements and three LD (Low Dispersion) glass elements reduces aberrations while minimizing light fall-off at the corners. Tamron's Integrated Focus Cam, Internal Focusing and Triple Cam Zoom systems all combine to permit a compact chassis with excellent optical performance. New Anti-Slip mechanism incorporated.

•Filter diameter/Ø82mm •MFD/50cm(28,105mm),44cm(70-85mm) •Mounts/Canon AF, Minolta AF, Nikon AF-D •Flower-shaped hood.

**"The Best of What's New '97" Award** **By Popular Science (USA)** **By Popular Science (UK)** **By Popular Science (USA)** **By Popular Science (UK)** **SP SUPER PERFORMANCE** **ASL** **LD** **LAH** **IF**

**AF28-105mm F/4-5.6 [IF]** Model 179D

Tamron's conveniently small and lightweight AF28-105mm is the perfect standard zoom providing a longer medium telephoto, zooming out to true wideangle for group shots, tight indoor spaces, and landscapes. Internal Focusing (IF), once only available in professional lenses, permits easy handling and practical use of filters. •Filter diameter/Ø62mm •MFD/19.7" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Flower-shaped hood included **IF**

**AF28-200mm F/3.8-5.6 XR ASPHERICAL [IF] MACRO** Model A03/A03S

This is an extremely compact 28-200mm zoom lens. With a minimum focal distance over the entire zoom range of 19.3", and a maximum magnification ratio of 1:4 (at 200mm), this remarkable lens achieves high magnification zoom performance with the compact size of a standard zoom lens. Through XR glass and efficient use of aspherical elements, Tamron has achieved a 25% reduction in size and a 27% reduction in weight over the previous model (Model 371D), along with a two-step smaller filter diameter of 62mm (formerly 72mm) without compromising the superior image quality characteristic of Tamron 28-200 lenses. •Filter diameter/Ø62mm •MFD/19.3" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Flower-shaped hood. \*Since an internal focusing system is used, the lens provides a wider field of view at shooting distances shorter than infinity when compared with conventional lenses at equivalent focal lengths.

**"European Photo & Imaging Awards** **"Best Lens in Europe 2001/2002"** **TPA** **XR** **ASL** **IF** **ZL**

**AF70-300mm F/4-5.6 LD MACRO (1:2)** Model 572D

This is the definitive lightweight, compact telephoto macro zoom with a maximum magnification ratio of 1:2 at the 300mm setting-ideal for shooting subjects that are difficult to approach such as sporting and theatrical events and wildlife. By switching to macro mode, subjects as close as 37.4" can be shot within the focal range of 180-300mm, for true macro photography. The optical system incorporates a LD (Low Dispersion) lens, resulting in clear sharp images free of chromatic aberration. •Filter/Ø62mm •MFD/59.0" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Hood **LD**

**AF75-300mm F/4-5.6 LD MACRO (1:3.9)** Model 672D

This extended-range zoom offers true telephoto capability ideal for a variety of applications including sports and wildlife shooting. The lens also provides a beautifully blurred background effect that highlights the main subject in portraiture, as well as "compression effects" that make the most of the telephoto lens. At the 300mm setting, the lens enables you to approach subjects up to 59.0" and provides you macro photography capabilities with a maximum magnification ratio of 1:3.9. •Filter/Ø62mm •MFD/59.0" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF •Hood **LD**

## Autofocus Fixed Focal Lenses

**SP AF14mm F/2.8 ASPHERICAL [IF]** Model 69E

SP AF14mm F/2.8 Aspherical (IF) is an ultra wideangle lens that creates a perspective far beyond the conventional ultra-wide. With its larger 2.8 aperture, the main subject practically jumps out of the image. By using two Hybrid Aspherical lens elements, this lens delivers high quality images with minimal light fall off at the image corners. To optimize handling, the lens incorporates a push/pull AF/MF Switchover mechanism on the focus ring. •Filter/ Rear Gelatin filter holder •MFD/7.9" •Mounts/Canon AF, Minolta AF, Nikon AF-D, Pentax AF **SP SUPER PERFORMANCE** **ASL** **IF**

**SP AF300mm F/2.8 LD [IF]** Model 360E

Tamron's fast fixed telephoto delivers remarkable and exacting performance demanded by professionals. Two large LD (Low Dispersion) glass elements in the front group provide high contrast and crystal-clear image quality at F/2.8. Our Floating Focusing system improves optical performance especially at close shooting distances. Nine specially-shaped aperture blades form a nearly perfect circle to create excellent background blur for portraits. The true value of the lens is apparent when photographing sports, low-light theatre performances, and wildlife. New is a Canon version that provides an AF/MF focusing ring, standard accessory rear circular polarizer with rotation capability on the lens barrel, and detachable tripod mount. •Filter/Ø112mm (rear:Ø43mm) •MFD/98.4" •Mounts/Canon AF, Minolta AF, Nikon AF •For Nikon AF-D and Minolta AF model (Hood, case, rear normal filter, hold grip). •For Canon model (Hood, case, exclusive tripod stand, rear Normal filters, exclusive C-PL rear filter)

**SP SUPER PERFORMANCE** **LD** **IF** **AM**

## Manual Focus Lenses

**28-70mm F/3.5-4.5** Model 159A

Extremely lightweight and compact, this handy zoom lens feels more like a standard fixed focal length lens yet delivers coverage from a real wide angle 28mm to a medium telephoto 70mm. In addition, the 28-70mm has a telemacro function with a maximum magnification ratio of 1:4 at 70mm for close-ups. The 28-70mm is made to travel since this focal length range can handle everything from group shots to scenic landscape pictures. •Filter/Ø52mm •MFD/27.5" •Mount/Adaptall II interchangeable mount/optional

**SP28-105mm F/2.8 LD ASPHERICAL [IF]** Model 176A

Comparable in size to traditional fast standard zooms, Tamron's SP 28-105mm F/2.8 offers the professional photographer the versatility of an extended zoom range with a constant F/2.8 maximum aperture. LD glass, Aspherics and Internal Focusing, along with several new mechanical innovations, work together to make this an easy-to-handle lens capable of producing superior-quality images. •Filter/Ø82mm •MFD/19.7"(28,105mm), 17.3"(70-85mm) •Mount/ Adaptall II interchangeable system •Flower-shaped hood •Interchangeable mount/optional

**SP SUPER PERFORMANCE** **ASL** **LD** **LAH** **IF**

**AF28-200mm F/3.8-5.6 LD ASPHERICAL [IF] Super** Model 171A

The world's best selling 28-200mm Super lens for over 200 MF camera systems. A variety of Tamron's optical and mechanical technologies such as Hybrid Aspheric lens elements, Integrated Focus Cam, and Triple-Cam-Zoom, are combined with LD glass and an Internal Focusing. These high technologies allow an incredible M.F.D. (Minimum Focus Distance) of just 31.5" at any focal length setting as well as high image quality in a compact package. \*Since an internal focusing system is used, the lens provides a wider field of view at shooting distances shorter than infinity when compared with conventional lenses at equivalent focal lengths. •Filter /Ø72mm •MFD/31.5" •Mount/Adaptall II interchangeable mount •Flower-shaped hood •Interchangeable mount/optional **ASL** **LD** **IF**

**SP60-300mm F/3.8-5.4** Model 23A

This powerful telephoto zoom lens goes from a medium telephoto of 60mm to an ultra-telephoto range of 300mm quickly and easily. The lens includes a macro function with a maximum magnification ratio of 1:5. A one-touch ring feature means focusing, zooming, and macro modes are accessible using just one control ring. •Filter/Ø62mm •MFD/74.8" •Mount/Adaptall II interchangeable system •Hood •Interchangeable mount/optional **SP SUPER PERFORMANCE**

**70-210mm F/4-5.6** Model 158A

A very compact zoom measuring just 3.1" yet zooms to a focal length of 210mm. The lens, which is highly portable and easy to use, is constructed of 13 elements in 9 groups. It produces corner-to-corner sharp pictures with good contrast. A macro function is incorporated with a maximum magnification ratio 1:4. •Filter/Ø52mm •MFD/43.3" •Mount/ Adaptall II interchangeable system •Hood •Interchangeable mount/optional **Model 194H**

**SP70-210mm F/3.5** Model 194H

Another lens in the high quality SP series featuring a constant F/3.5 maximum aperture and a 3X zooming ratio. Tele-macro is also available with a maximum magnification ratio of 1:2.6, precision quality, combined with the macro feature, make this lens an excellent choice for flower photography or any detailed nature study in addition to portraiture and other telephoto applications. •Filter/Ø62mm •MFD/33.5" •Mount/ Adaptall II interchangeable system •Hood •Interchangeable mount/optional **SP SUPER PERFORMANCE**

**24mm F/2.5** Model 01BB

This lens provides a field of view 84 degrees for full image framing applications. It also has an F number of F/2.5, which is approximately 25% faster than comparable F/2.8 lenses. Yet this lens is very compact with an overall length of 1.9" and diameter of 2.7" and weighs just 8 ounces. •Filter/Ø55mm •MFD/9.4" •Mount/ Adaptall II interchangeable system •Interchangeable mount/optional

**SP90mm F/2.8 MACRO (1:1)** Model 72B

The portraiture capabilities of the popular Tamron MF90mm F/2.5 (Model 52B) are further enhanced in this 90mm model with its fast F/2.8 aperture. For handling ease, the lens weighs a mere 15 oz., making it ideal for taking advantage of its maximum macro magnification ratio of 1:1. Its 2.8 aperture and 9-bladed diaphragm help in producing soft out-of-focus backgrounds, while the optical design of the lens ensures sharp images from corner to corner. •Filter diameter/Ø55mm •M.F.D./11.4" •Mount/Adaptall II interchangeable system •Hood •Interchangeable mount/optional **SP SUPER PERFORMANCE**

**SP300mm F/2.8 LD [IF]** Model 360B

An ultra-high performance, fast telephoto lens to meet the needs of the most demanding professional photographers. This lens is well suited to the fast-action world of sports photography, but the lens' bright viewfinder image and fast aperture lend itself excellently to shooting indoor theatrical events. The nine-blade aperture design makes a nearly circular opening for a soft blurred background-an ideal effect for portraiture. Two large LD elements incorporated in the optical design produce sharp, clear pictures with high contrast and true color fidelity from corner to corner. •Filter/Ø112mm(rear: Ø43mm) •MFD/98.4" •Mount/ Adaptall II interchangeable system •Hood •Interchangeable mount/optional. **SP SUPER PERFORMANCE** **LD** **IF**

**SP500mm F/8** Model 55BB

This is a "Catadioptric" type telephoto lens with two silver evaporation coated reflective mirrors. The silver evaporation coating on the rear lens surface compensates for spherical aberrations on reflective surface giving high quality images throughout the focusing range. Tele-macro is also available with a short minimum focusing distance of 67" and a maximum magnification ratio of 1:3 •Filter/Ø82mm (rear: Ø30.5mm) •MFD /66.9" •Mount /Adaptall II interchangeable system •Hood •Interchangeable mount/optional. **SP SUPER PERFORMANCE**

## REVIVAL OF MANUAL FOCUS SLRS

Tamron stands apart from other lens manufacturers with its use of an interchangeable mount system instead of a fixed-mount. Fixed-mount lenses are limited to use on cameras using that specific mount system. The Tamron interchangeable mount system makes Tamron's manual focus lenses compatible with a wide range of SLR cameras so you can change your camera without having to change your lens. In fact, Tamron offers approximately 20 different mounts usable with some 200 35mm SLRs.

**TAMRON Adaptall-2 Mounts Available for:**

- Canon FD/FT Series
- Contax/Yashica Series
- Fujica ST Series
- Fujica AX Bayonet Series
- Konica AR Series
- Leica R4 Series
- Mamiya ZE Series
- Minolta MD/SR Series
- Nikon A/E Series
- Olympus OM Series
- Pentax ES/Spotmatic Series
- Konica AR Series
- Leica R4 Series
- Mamiya ZE Series
- Ricoh XR-P Series
- Rollei SL-35/Voigtlander VSL Series
- Universal-42mm Screw
- Dynamax/Maxum Series
- C-mount for CCTV/VTR cameras and 16mm movie cameras

## Teleconverters

**Tamron tele-converters provide powerful and creative options for your telephoto photography.**

Simply fit a Tamron tele-converter between the lens and the camera body. This increases the focal length and gives you extended telephoto capabilities so you can take photos with greater magnification from the same camera position. Tamron's AF tele-converters are compatible with most AF (auto-focus) and auto-exposure cameras.



Model AF14      Model AF20      Model AF14P      Model AF20P

## Technology Key

- SP** High-performance specifications
- DI** Digitally Integrated Design
- DI-II** Di for exclusive use with Digital SLRs
- XR** XR element(s)
- ASL** Aspherical element(s)
- LD** Low Dispersion element(s)
- AD** Anomalous Dispersion element(s)
- LAH** LD-Hybrid Aspherical element(s)
- ADH** AD-Hybrid Aspherical element(s)
- IF** Internal Focusing System
- FEC** Filter Effect Control
- ZL** Zoom-Lock Mechanism
- AM** AF/MF Switchover Mechanism

**TAMRON**