

# TAMRON

## SP180mm F2.5 LD(IF)

- Faster aperture (F/2.5) in the 180mm lens class, with maximum optical performance, even at full aperture.
- Extremely compact and maneuverable, with excellent balance and operating ease.
- Shortest minimum focusing distance for a lens of its focal length and overall optical performance.



## 35<sup>th</sup> ANNIVERSARY MODEL

The SP180mm F/2.5 LD (IF) is a world class-lens whose unique design excited the photographic industry from the moment of its introduction at Photokina. Now available as part of Tamron's 35th-Anniversary Series, its ultra-high performance has already established it as a benchmark for professional photographers around the world.

No time or expense has been spared in the production of this outstanding photographic instrument. Only the rarest and finest materials are used. All optical and mechanical components are meticulously manufactured, finished and matched for maximum performance. Each lens is then carefully assembled, inspected, tested and re-tested by an elite team of specialists dedicated to creating a limited edition of just 3,000 lenses worldwide. With an uncompromising standard of excellence.

# New Tamron lens representing the culmination of 35 years of advancement in lens design

## SP180mm F2.5LD(IF)

### Maximum optical performance: the SP180mm F/2.5 LD (IF) concept.

This new Tamron lens represents the culmination of thirty-five years of continuous advancement of the art and science of photographic optics. Utilizing a sophisticated design incorporating two elements of special low-dispersion (LD) glass, the SP180mm F/2.5 delivers superb performance you can sense from the moment you look in your viewfinder.

Whether you use it for portraits, candid work, production stills — or wherever else your creativity leads you — its fast F/2.5 aperture (delivering 25% more light than F/2.8) is only the first hint of superb results to come. Add the sureness of its quick-handling internal focusing system and you have a tool of incredible precision and versatility that will impress even the most jaded professional. And once you use it, the extremely compact (119.5mm x 81.5mm dia.) size, light (800g) weight and superior balance of this unique lens may well spoil you for anything else.

### Great performance begins at the beginning: two special LD glass elements in the front group.

Clear images are difficult to achieve with fast-aperture telephoto lenses, because they are particularly susceptible to lowered contrast produced by chromatic aberrations.

To eliminate these aberrations — unavoidable with normal glass materials — Tamron designers made an uncompromising choice. By selecting costly low-dispersion glass for the front two large-diameter elements, they were able to eliminate chromatic aberrations to an exceptionally high degree. The virtues of this choice are clearly demonstrated by the SP 180mm's superior performance under the most demanding conditions: shots taken at wide-open aperture; fine detail; and photographs of scenes with large areas in shadow.

The "SP" designation — for super performance — and the green line signifying use of LD glass translate into tangible advantages for demanding photographers — whatever the challenge.

### Internal Focusing — for maximum speed and precision.

Conventional lenses in the 180mm class utilize a focusing system in which the front lens groups are extended and retracted during focusing. Unfortunately, such a system requires a large helicoid mechanism which changes the length of the lens, creating

problems of balance and lens-handling speed. To prevent these problems, the Tamron SP180mm F/2.5 LD (IF) uses an internal focusing system which does not change the overall lens length. In addition, its variable-pitch mechanism allows extremely quick focusing: a mere 1/4 turn shifts focus from infinity to the minimum distance of 1.2m. The result: high speed and maneuverability with no shift in overall length or balance, for matchless operating ease.

### Shortest (1.2m) minimum focusing distance — for maximum versatility.

Like all Tamron lenses, the SP 180mm F/2.5 features the shortest possible minimum focusing distance, with virtually no deterioration in inherent performance. From infinity to its minimum focusing distance of only 1.2m — the shortest in its class — this superb photographic tool maintains its crisp, clear depictive quality. Whatever the lighting conditions, whatever the application, this superb lens will introduce you to a new world of expressive power.

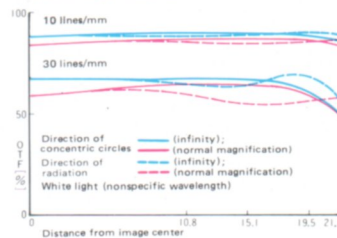
### High-technology manufacturing — for the highest performance.

With nearly twice the number of elements found in conventional designs (ten elements in seven groups) and a sophisticated internal focusing system, this lens not only required a higher order of design technology, but a higher level of manufacturing technology as well. Tamron's advanced production capabilities have been honed by the skills of second- and third-generation scientists, engineers and artisans. They are uniquely capable of the extra precision in manufacture, assembly, adjustment and testing required to translate the SP180mm F/2.5 from ambitious dream to exciting reality.

### High MTF (ratio of contrast reduction) — for optimum results.

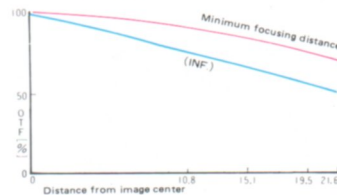
A high MTF is an excellent indicator of image quality. In

the SP 180mm F/2.5, this is achieved from center to periphery: as indicated in the graph, contrast is even all the way to the image edges.



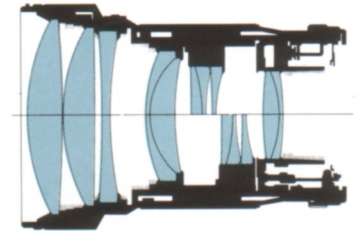
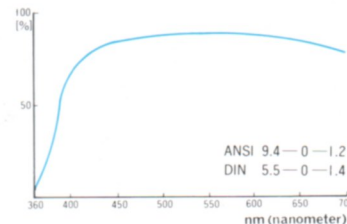
### Uniform peripheral light intensity — for consistent images.

With most lenses, light falls off at closer focusing distances. With this lens, however, high values are maintained, even at close ranges.



### Spectral transmissivity — for the most natural color balance.

To achieve superior color balance — the key to natural color reproduction — ultraviolet transmission is cut. The overall flatness of the transmissivity curve showing sharp rise at around 370nm indicates excellent color balance and natural color reproduction.



### SPECIFICATION

Focal Length:	180mm
Maximum Aperture:	F/2.5
Lens Construction:	10 elements, 7 groups
Lens Coating:	BBAR multi-coating
Angle of View:	13° 48'
Minimum Object Distance:	1.2m
Exposure Control System:	Fully automatic aperture, for TTL/AE linkage (aperture or shutter priority); manual aperture possible
Aperture Range:	F/2.5-32
Filter Size:	77mm dia.
Overall Length (at infinity):	119.5 with Nikon mount (4.7")
Maximum Diameter:	81.5mm (3.2")
Weight:	800g (28.2 oz.) Nikon mount)
Lens Hood:	Bayonet-type

### • Interchangeable mount allows use with your favorite camera.

One of the most important reasons for the worldwide popularity of Tamron lenses is that the unique interchangeable mount system allows Tamron lenses to be quickly and easily coupled to most SLR cameras. So should you decide to buy another camera, instead of your lenses becoming obsolete you simply change the mount to suit your new camera. In nearly every case, full compatibility is retained which allows you to use all of the automatic functions offered by your camera.

### 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 AI/E Series
- Olympus OM Series
- Pentax ES/Spotmatic Series
- Pentax K Series
- Praktica S Electric
- Praktica B200 Series
- Ricoh XR-P Series
- Rollei SL/Voigtlander VSL Series
- Topcon RE Series
- Universal (42mm screw)
- "C" mount for CCTV/VTR cameras and 16mm movie cameras
- "MS" mount for CCTV/VTR cameras

Specifications and availability are subject to change without notice.

# TAMRON

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