

TAMRON



Introducing two new F/1.8 fast-aperture fixed focal length lenses with superior optical performance and unprecedented close-focusing capability integrated with VC (Vibration Compensation).

SP 35_{mm} & SP 45_{mm} F/1.8 VC



SP 35mm F/1.8 Di VC USD (Model F012)

SP 45mm F/1.8 Di VC USD (Model F013)

For Canon, Nikon and Sony* mounts

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

* Sony mount model without VC

The New SP Series for A New Era of DSLR Cameras

Technologically advanced camera systems with a high pixel density drive the SP Series lenses to perform at their best. Superior optical performance is standard and enhanced by improvements in functionality, handling, and external design.

SP 35mm F/1.8 Di VC USD

A standard 35mm slightly skewed to a wide-angle lens with built-in VC provides a MOD (Minimum Object Distance) of 0.2m. This lens achieves superb imaging performance at full aperture with well-balanced depictive capability.



Model F012

SP 45mm F/1.8 Di VC USD

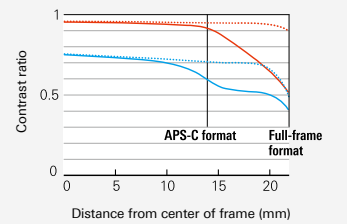
A 45mm capable of remarkable resolving power and sharp images, while the integration of VC into a fast standard prime lens for full-frame DSLR cameras is an industry-first*. This lens delivers crisp and tack sharp images at any setting from F/1.8 full open aperture.



Model F013

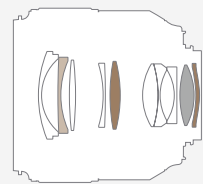
* As of July 2015. Source: Tamron.

MTF
Focal length: 35mm Exposure: F/1.8



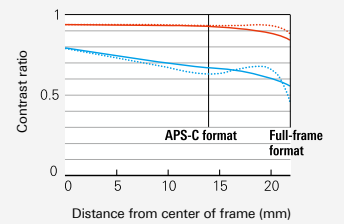
10 lp/mm Sagittal 30 lp/mm Sagittal
10 lp/mm Meridional 30 lp/mm Meridional

Optical Construction



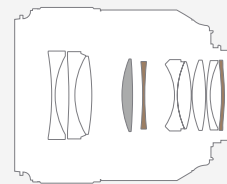
Molded glass aspherical element LD (Low Dispersion) lens element
XLD (eXtra Low Dispersion) element

MTF
Focal length: 45mm Exposure: F/1.8



10 lp/mm Sagittal 30 lp/mm Sagittal
10 lp/mm Meridional 30 lp/mm Meridional

Optical Construction



Molded glass aspherical element LD (Low Dispersion) lens element

Innovative and Unique Standard Lenses with F/1.8 Fast Aperture

State-of-the-art design and engineering technologies backed by manufacturing know-how culminate in revolutionary 35mm and 45mm lenses.

High Performance at F/1.8 Full Aperture

The open aperture is set to F/1.8 with optimized critical properties at a higher level: superb optical performance coupled with a VC system, a shorter MOD, and a well-balanced form factor. Rigorous simulation processes performed throughout the design phase are materialized in distinguished resolving power and beautifully-tuned background blur, a prominent feature to a fast-aperture, full-frame compliant optic.

Molded Glass Aspherical Elements

Two molded glass aspherical elements in both the 35mm and 45mm lenses deliver planarity in field curvature. These elements ensure superb focusing uniformity over the entire field by compensating for spherical and comatic aberrations.

LD (Low Dispersion) Glass and XLD (eXtra Low Dispersion) Glass

To further compensate for chromatic aberrations, both lenses use an LD element and the 35mm lens combines one LD with an XLD element. These elements help deliver crisp, clear images without color fringing.

Optimal Relative Illumination

The two new SP lenses deliver exceptionally uniform illumination levels across the image field to avoid non-linear pattern or fall-off toward corners.

eBAND and BBAR Coating

eBAND (Extended Bandwidth and Angular-Dependency) Coating and BBAR (Broad-Band Anti-Reflection) Coating both provide superior anti-reflection properties. These technologies have been adapted to each lens and provide crystal clear images by suppressing element surface reflections that lead to ghosting and flare.

eBAND Coating is a nano-structured layer deployed on the critical element surface. In addition to regular anti-reflection coatings, eBAND Coating offers higher transmissivity and a significant improvement in anti-reflection characteristics against angulated incident rays.



Focal length: 35mm Exposure: F/5.6 15sec

VC (Vibration Compensation) Integration, Setting Itself Apart

VC deployed on fast-aperture lenses dramatically enhances freedom of hand-held shooting under lime light or dim room light conditions by eliminating minute camera shake. In particular, cameras with high-pixel density imagers tend to pick up subtle vibrations, resulting in degradation of image quality. VC is an excellent attribute to acquire inherent high-fidelity images. 45mm is the very first lens that employs the VC functionality among the fast standard fixed focal lenses in full-frame format*.

USD (Ultrasonic Silent Drive) Autofocusing

The USD actuator converts ultrasonic waves into rotational motion that delivers autofocus with responsiveness, accuracy, and speed without so much as a whisper. The photographer can easily use manual focus at any point while the AF system is operating without having to fumble for a switch.

Fluorine Coating

Developed for industrial optics, fluorine coating offers long-lasting oil and water resistance to the lens. Moisture and smudges wipe away, making it easy to keep your lens clean.

Moisture-Resistant Construction

Constructed to prevent moisture from entering the internal mechanisms of the lens, the new SP line is sealed to allow photographers to shoot outdoors in adverse conditions.



Focal length: 35mm Exposure: F/1.8 1/1000sec

Get Closer than Ever Before

Move in closer to subjects with the new Tamron lenses. New MOD specs let photographers shoot at close range, opening a new world of creative opportunities for composition while maintaining image quality.

Both the SP 35mm (MOD: 0.2m) and the SP 45mm (MOD: 0.29m) offer best-in-class close focusing**. A floating system design feature seamlessly optimizes image quality by shifting elements relative to the focus group in close shooting situations. Of the two, the 35mm lens offers unique opportunities enabling shooting like a wide-angle macro lens.

* As of July 2015. Source: Tamron.

** 35mm: Rated top among current 35mm fixed focal length interchangeable AF lenses for full-frame DSLR cameras excluding macro lenses (As of July 2015. Source: Tamron).

45mm: Rated top among current 45mm and 50mm fixed focal length interchangeable AF lenses for full-frame DSLR cameras excluding macro lenses (As of July 2015. Source: Tamron).

Focal length: 45mm Exposure: F/1.8 1/500sec



High Performance Features behind Every Design Aesthetic

Our attention to every engineering detail has yielded the most advanced optical and electro-mechanical design featured in the new Tamron SP Series, culminating in a new benchmark for high performance and visual elegance.

The cornerstone of our design philosophy is human touch, assimilating graceful lines that are soft to the touch and easy to handle. Switches are larger and reconfigured for smoother torque and the typeface is redesigned for intuitive legibility.



SP 35mm F/1.8 Di VC USD (Model F012)

Model	F012	Filter Size	Φ67mm
Focal Length	35mm	Maximum Diameter	Φ80.4mm
Maximum Aperture	F/1.8	Length*	80.8mm (3.2 in) Canon 78.3mm (3.1 in) Nikon
Angle of View (diagonal)	63°26' for full-frame format 43°29' for APS-C format	Weight	480g (16.9 oz) Canon 450g (15.9 oz) Nikon
Optical Construction	10 elements in 9 groups	Aperture Blades	9 (circular diaphragm**)
Minimum Object Distance	0.2m (7.9 in)	Minimum Aperture	F/16
Maximum Magnification Ratio	1:2.5	Standard Accessories	Flower-shaped lens hood, Lens caps
		Compatible Mounts	Canon, Nikon, Sony***

Specifications, appearance, functionality, etc. are subject to change without prior notice.

* Length is the distance from the front tip of the lens to the lens mount face.

SP 45mm F/1.8 Di VC USD (Model F013)

Model	F013	Filter Size	Φ67mm
Focal Length	45mm	Maximum Diameter	Φ80.4mm
Maximum Aperture	F/1.8	Length*	91.7mm (3.6 in) Canon 89.2mm (3.5 in) Nikon
Angle of View (diagonal)	51°21' for full-frame format 34°28' for APS-C format	Weight	540g (19 oz) Canon 520g (18.3 oz) Nikon
Optical Construction	10 elements in 8 groups	Aperture Blades	9 (circular diaphragm**)
Minimum Object Distance	0.29m (11.4 in)	Minimum Aperture	F/16
Maximum Magnification Ratio	1:3.4	Standard Accessories	Flower-shaped lens hood, Lens caps
		Compatible Mounts	Canon, Nikon, Sony***

** The circular diaphragm stays almost perfectly circular up to two stops down from maximum aperture.

*** Sony mount model without VC.

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

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Management on Quality and Environment

Tamron is certified with international standards: ISO 9001 for quality and ISO 14001 for environmental management at its headquarters, domestic sales offices, China plant as well as its three production facilities in Aomori, Japan, and is fully committed to striving for continued and sustainable improvement at all levels and facets of its business operations.