

SP 90mm F/2.8 Di MACRO   

for Canon/Nikon/Sony

TAMRON
New eyes for industry

Introducing the New 90mm Macro.
Extremely Detailed. Refined Function.



NEW

SP 90mm F/2.8 Di VC USD MACRO 1:1

Model F004

New 90mm Macro lens delivers superior image quality – incorporating state-of-the-art optical technology and image stabilization.

Di (Digitally Integrated) lens designed for digital full-frame and APS-C/APS-H sized SLR cameras. Comes with lens hood.

Compatible mounts: Canon, Nikon, Sony*

* The Sony mount does not include the VC image stabilization functionality, as the body of Sony digital SLR cameras includes image stabilization functionality. Consequently, the name of the Sony mounted lens does not include the VC description (SP 90mm F/2.8 Di USD MACRO 1:1).

State-of-the-art optical and image stabilizing technologies combine to create a new masterwork lens in the 90mm Macro.

Images of astounding sharpness, augmented by natural blur effects. Tamron's classic 90mm Macro lens is reborn to let you shoot even more beautiful, exquisite images. Compatible with full-size SLR cameras, this new, high-resolution macro lens lets the photographer capture the moment's atmosphere at will.



Focal length: 90mm · Exposure: F/2.8 1/200 sec, ISO400

High resolution with beautiful blur effects

Two XLD (Extra Low Dispersion) glasses*¹ made from specialized, high-grade glass and one LD (Low Dispersion) element are combined to thoroughly correct aberration. Moreover, the latest optical design and rounded diaphragm*² deliver a spectacular blur effect. This macro lens maintains sharp focus on the subject together with soft natural blurring of foregrounds and backgrounds to achieve a richer, deeper feel in the image.

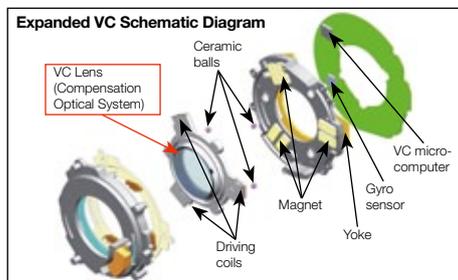
*¹ The XLD glass has a much lower dispersion than the conventional LD element, its dispersion value is approximately equivalent to that of fluorite.

*² This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

VC (Vibration Compensation)*³

This macro lens is equipped with VC image stabilization mechanism that delivers sharp and vivid viewfinder images. Even in low-light situations, camera shake is reduced to enable stress-free hand-held photography.

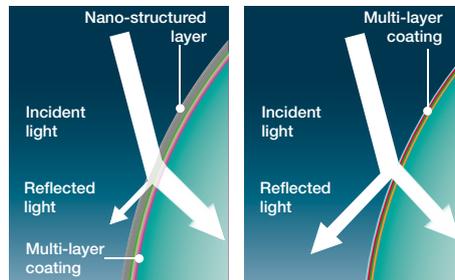
*³ From 3m, the benefits of VC gradually decrease as the focus distance becomes closer.



New eBAND (Extended Bandwidth & Angular-Dependency) Coating

This new coating technique developed by Tamron deploys a nano-structured layer (1nm = 1/1,000,000mm) of ultra-low refractive index, with dimensions smaller than the wavelengths of visible rays of light. This nano-structured layer coupled with the sophisticated multiple layer coatings underneath, yields significant anti-reflection properties, efficiently reducing undesired flare and ghosting to an absolute minimum to deliver sharp, crisp images.

Schematic diagram:



Lenses with eBAND Coating offer dramatically improved control over flare and ghosting even in extremely poor light conditions.

1:1 Maximum magnification ratio

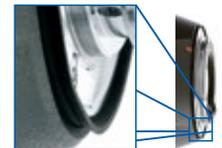
The maximum magnification ratio of the new 90mm Macro is 1:1, which lets you reproduce a life-size image of the subject on the film or image sensor. This lens is suited to close-up photography of small objects, enabling the photographer to capture the minute world that otherwise would be missed when viewed just by the naked eye.

IF (Internal Focusing) System

The lens incorporates the IF system, which focuses by moving only the internal lens group. The overall length of the lens therefore does not change when focusing, thus ensuring a broad working distance. As a result, comfortable macro shooting is enabled.

Moisture-resistant construction

Moisture-resistant construction helps prevent moisture from penetrating the lens.



Moisture-resistant construction diagram

USD (Ultrasonic Silent Drive)

The quiet high-torque USD motor ensures a speedy and accurate autofocus response.



Built-in USD

Full-time manual focus

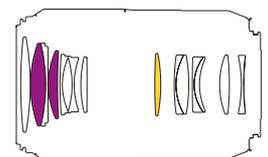
This lens incorporates a full-time manual control mechanism that enables the user to manually adjust focus at any time, even when in the auto-focus mode.

■ SP 90mm F/2.8 Di VC USD MACRO 1:1 for Canon, Nikon ■ SP 90mm F/2.8 Di USD MACRO 1:1 for Sony ■ Di (Digitally Integrated) lens designed for digital APS-C and full-size SLR cameras. Model: F004

Model	F004
Focal Length	90mm
Maximum Aperture	F/2.8
Angle of View (diagonal)	27°02' (with full-size SLR cameras) 17°37' (with APS-C sized sensor digital SLR cameras)
Lens Construction	14 elements in 11 groups
Minimum Focus Distance	0.3m
Max. Magnification Ratio	1:1
Working Distance	139mm

Filter Size	58mm
Length*⁴	114.5mm*
Entire Length*⁵	122.9mm*
Diameter	76.4mm
Weight	550g
Diaphragm Blade Number	9 (rounded diaphragm)* ⁶
Minimum Aperture	F/32
Standard Accessories	Lens hood
Compatible Mounts	Canon, Nikon, Sony* ⁷

F004 Lens Construction
■ XLD (Extra Low Dispersion) glass
■ LD elements



Specifications, appearance, functionality, etc. may be changed without prior notice.

Length, entire length and weight values given are for the Nikon mount.

*⁴ Length is the distance between the mount face and the tip of the lens.

*⁵ Entire length is the distance between the tip of the lens and the tip of the protrusion.

*⁶ This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

*⁷ The Sony mount does not include VC, as Sony digital SLR bodies include image stabilization functionality.

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

EN 10/2012

TAMRON®

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Based on ISO 9001 and ISO 14001, Tamron produces superior products in accordance with the ISO 9001 and ISO 14001 standards while holding the environment and workers in the highest regard.

Information valid as of October 2012. Information in this publication may be subject to change at any time.