




Di Series SP 90mm F/2.8 MACRO     
for Canon / Nikon / Sony

**TAMRON**  
New eyes for industry

Experience the full power of Macro.  
Refined for higher detail and sharper photos.



TAMRON  
**NEW**  
Di Series

**SP 90mm F/2.8 Di MACRO 1:1 VC USD**  
for Canon, Nikon

**SP 90mm F/2.8 Di MACRO 1:1 USD**  
for Sony

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

Model F004

Di (Digitally Integrated) lens designed for digital APS-C and full-size SLR cameras, with lens hood.

Compatible mounts: Canon, Nikon, Sony

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

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# 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 1/500 sec ISO400

## High resolution with beautiful blur effects

Two XLD (Extra Low Dispersion) glass elements\*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 much lower dispersion, similar to fluorite, than the conventional LD element.

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

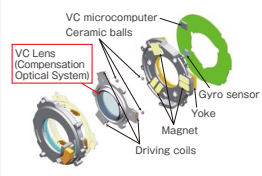
## VC (Vibration Compensation)\*3

This macro lens is equipped with the VC 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.



<Expanded VC Schematic Diagram>



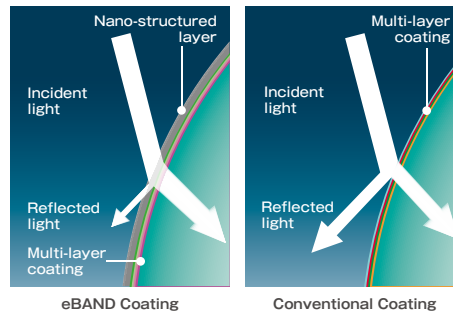
Focal length: 90mm Exposure: F/2.8 1/8 sec

With VC, the photographer can shoot at a shutter speed up to four stops slower.

## 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 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

Fine focus adjustments using manual focus can be made during autofocus shooting, without the need to change focus mode.

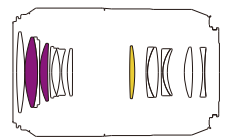
For more information about the F004, please visit the F004 Special Website [www.tamron.co.jp/en/lineup/f004/](http://www.tamron.co.jp/en/lineup/f004/)

SP 90mm F/2.8 Di MACRO 1:1 VC USD for Canon, Nikon | SP 90mm F/2.8 Di MACRO 1:1 USD 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 (11.8 in)
Max. Magnification Ratio	1:1
Working Distance	139mm (5.5 in)

Filter Size	φ58mm
Length*1	114.5mm (4.5 in)*
Entire Length*2	122.9mm (4.8 in)*
Diameter	φ76.4mm
Weight	550g (19.4 oz)*
Diaphragm Blade Number	9 (rounded diaphragm)*3
Minimum Aperture	F/32
Standard Accessory	Lens hood
Compatible Mounts	Canon, Nikon, Sony*4

[F004 Lens Construction]  
 ■ XLD (Extra Low Dispersion) glass  
 ■ LD element



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

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

\*1: Length is the distance between the mount face and the tip of the lens.

\*2: Entire length is the distance between the tip of the lens and the tip of the protrusion.

\*3: This rounded diaphragm retains a nearly circular shape even when taken two stops down from its fully open state.

\*4: 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.

F04-EG-111-I-1210-0000

**TAMRON®**

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Tamron produces superior products in accordance with the ISO9001 and ISO14001 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.