

# SIGMA

The crystallization  
of technology  
A whole new  
ultra-telephoto experience

## **S** Sports **500mm F5.6 DG DN OS**

Designed exclusively for full-frame mirrorless cameras

**Supplied accessories: Case, LENS HOOD LH1034-02,  
TRIPOD SOCKET TS-151, FRONT CAP LCF-95mm III, REAR CAP LCR II**

**Available mount: L-Mount, Sony E-mount**

\*The appearance and specifications of the product are subject to change.

\* This product is developed, manufactured and sold based on the specifications of E-mount which was disclosed by Sony Corporation under the license agreement with Sony Corporation.

\* L-Mount is a registered trademark of Leica Camera AG.



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[sigma-global.com](https://sigma-global.com)

# Clear, sharp Images: A handy 500mm lens for new shooting experience

The SIGMA 500mm F5.6 DG DN OS | Sports is an ultra-telephoto prime lens designed for mirrorless cameras, boasting exceptional image quality in a compact, lightweight body. By incorporating large-diameter, and low-dispersion glass elements, SIGMA significantly reduced the lens size while maintaining high resolving power expected from a 500mm prime lens. Crafted with high-precision engineering plastic parts, the lens offers excellent build quality and weather resistance in a compact form. Ideal for wildlife, aviation, sports, and fast-action photography, this lens promises a new photographic experience.



## Principal features

### ● Perfect for hand-held shooting, a 500mm lens with unparalleled optical performance

The latest optical design using exclusive low-dispersion glass elements has succeeded in achieving both an extremely compact lens construction and high optical performance with excellent correction of aberrations. In addition to its size, the high-speed AF with HLA (High-response Linear Actuator) and the OS2 optical stabilization algorithm support comfortable shooting.

#### • High optical performance and compact lens construction

By utilizing exclusive low-dispersion convex elements at the front of the lens, the lens delivers both a high aberration correction capability and a short overall length. The lens has excellent correction of all aberrations, especially axial chromatic aberration, which cannot be corrected by the camera body, ensuring a stable high resolution from the center to the periphery of the image.

#### • Excellent backlight resistance

The lens uses refractive lenses in its optical system to prevent flare and ghosting that are characteristics of diffractive optical elements, allowing for clear images without concern for flare or ghosting even in backlit conditions or when a light source is included in the image. Furthermore, measures are taken against all conditions of incident light based on state-of-the-art simulation technology.

#### • High-speed AF with a linear motor HLA

A linear motor HLA is used for the actuator, which is characterized its high driving accuracy owing to the advanced electronic control, as well as its quietness. The HLA enables fast and accurate autofocus even in ultra-telephoto photography, such as sports and bird, where extremely precise focusing is required.

#### • OS2 algorithm in optical stabilizer function

The latest OS2 optical stabilization algorithm provides an outstanding image stabilization effect of 5.0 stops\*. The lens is equipped with two OS modes: Mode 1 is suitable for general shooting, and Mode 2 is ideal for panning shots.

\*Based on CIPA guidelines (Measured at 500mm with a 35mm full-frame image sensor)

### ● Compact, lightweight and excellent build quality

The lens body has been designed to be small and lightweight in line with the optical system, which has been made significantly more compact. Not only is the lens easy to handle in hand-held use, but it also has the weather resistance of SIGMA's Sports line specifications and the excellent build quality.

#### • High-precision TSC\* parts enable both high performance and compact, lightweight design

In order to achieve such a compact, lightweight and robust body, materials such as TSC and magnesium have been used in appropriate places. In particular, the production of a large TSC part that integrates functions as an internal structure, as well as an exterior part to reduce size and weight of the lens are manufactured with micron-level precision and they also have a sleek finish that gives the lens its premium feel.

\*TSC (Thermally Stable Composite) is a type of polycarbonate with a thermal expansion rate similar to that of aluminum. It has a high affinity to metal parts which contributes to high quality product manufacturing.

#### • Weatherability of Sports line specifications



#### • Cover-type lens hood included

A lightweight, high-strength, exclusive cover-type lens hood made of TSC is included. The tip of the hood is rubberized to protect the lens from abrasion and scratches caused by placing the lens upside down.



### ● A wealth of functions to assist in a variety of shooting situations

The lens is equipped with a full range of assist functions including an aperture ring and three AFL buttons\*. The L-Mount version is also compatible with SIGMA's tele converters for AF-enabled shooting at ultra-telephoto focal lengths of up to 1,000mm.

\*Function available on supported cameras only.

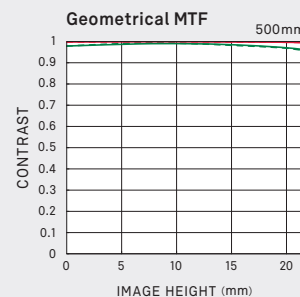
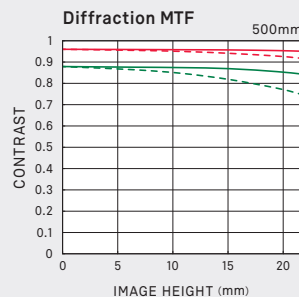
- Full range of customizable functions
- Equipped with an aperture ring and three AFL buttons\*
- Detachable tripod socket
- Tele Converter for L-Mount (1.4x/2.0x)



## Specifications \*The figures below are for L-Mount.

Lens construction	20 elements in 14 groups (3 FLD, 2 SLD)
Angle of view	5.0°
Number of diaphragm blades	11 (rounded diaphragm)
Minimum aperture	F32
Minimum focusing distance	320cm / 126.0in.
Maximum magnification ratio	1:6
Filter size	ø95mm
Dimensions (Maximum Diameter x Length)	ø107.6mm x 234.6mm / ø4.2in. x 9.2in.
Weight	1,370g / 48.3oz.

\*The length of a lens is measured from the filter surface to its mount.



Spatial frequency	S	M
10 lines / mm	—	---
30 lines / mm	—	---

S: Sagittal line M: Meridional line  
All values are at wide-open aperture.

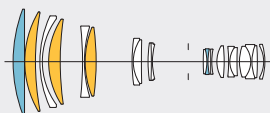
#### Available AF mount

- L-Mount: 0085126 186692
- Sony E-mount: 0085126 186654

\*The appearance and specifications of the products are subject to change.  
\*L-Mount is a registered trademark of Leica Camera AG.  
\*Sony E-mount lenses are developed, manufactured and sold in accordance with the E-mount specifications licensed under a license agreement with Sony Corporation.

### Lens Construction

- FLD glass
- SLD glass



### Lens Appearances

Note: Appearance varies slightly by mount types.



### Product information

