

# SEL400800G

## FE 400-800mm f/6.3-8 G OSS

The FE 400-800mm F6.3-8 G OSS is Sony's first<sup>1</sup>  $\alpha$  Lens that zooms to 800mm; a range that is ideal for distant subjects and telephoto compression. The fast, precise AF lets you capture unpredictable subjects with accuracy and precision. The internal zoom design minimizes center-of-gravity shift for smooth handling.



## Bullets

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- The first<sup>1</sup>  $\alpha$  series super-telephoto zoom lens to cover the 400 to 800 mm range
- High resolution and natural bokeh throughout the zoom range
- Internal zoom for stable handling
- Fast, precise AF captures even fast-moving subjects
- High-performance 1.4x and 2.0x teleconverters extend the lens's focal length
- Durable for tripod-mounted shooting and mount to UNC standard 1/4-20, or 3/8-16 screws
- Optical SteadyShot™ stabilization, with mode switch
- New lens hood designed with a lock button and filter opening
- Dust and moisture resistance<sup>6</sup> plus high durability
- Minimal focus breathing for movies

## Features

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### E-mount 400-800 mm super-telephoto zoom

The FE 400-800 F6.3-8 G OSS is Sony's first<sup>1</sup>  $\alpha$  Lens that covers the 800 mm super-telephoto zoom range. Optional 1.4x and 2x teleconverters can be used to extend that range up to 1600 mm. Super-telephoto focal lengths are ideal for birds and wildlife, sports, aircraft, and other subjects that can't be approached closely, as well as scenes that benefit from telephoto compression.

### Internal zoom and optimized zoom control

Internal zoom means the length of the lens does not change while zooming, and the center of gravity stays within a small range for stable handling. Smooth, easy zoom ring rotation allows quick zooming to any focal length in the range, while careful design reduces the possibility of accidental focal length changes.

### Superb quality throughout the zoom range

Six ED (Extra-low Dispersion) glass elements effectively control chromatic aberration that can be a problem at super-telephoto focal lengths. Flare and ghosting are also thoroughly suppressed. An 11-blade circular aperture helps to create beautiful ball bokeh amid exceptionally smooth background bokeh when shooting with a narrow depth of field.

### 1.7 m minimum focus at 0.23x magnification

Offering remarkable close-up capability for a super-telephoto zoom, VX8042 features a minimum focusing distance of just 1.7 m (5.58 ft) at the wide end of the zoom range and a maximum magnification of 0.23x. This level of close-up performance dramatically expands the potential uses of this versatile lens.

### Fast, precise AF captures quick subjects

Two precision linear motors drive the lens's focus group for fast, accurate focusing. Tracking easily keeps up with the 120 fps<sup>2</sup> maximum burst speed of the  $\alpha$ 9 III and continues uninterrupted even while zooming so important moments are not lost. A focus-range limiter (FULL / 10m-NEAR /  $\infty$ -8m) can be used to optimize operation for different subject distances. Focus breathing is suppressed for refined movie quality and quiet operation expands the gamut of possible applications.

### Precise manual focus

Full-time DMF automatically engages manual focus when the focus ring is operated, making it easy to apply fine manual adjustments or change the focus entirely. Linear Response MF ensures that the focus ring responds directly to manual focus control, with focus ring rotation translating directly to a corresponding change in focus.

### Minimal focus breathing for movies

Advanced lens technology reduces focus breathing as well as focus and axial shift when zooming. Changes in angle of view and

other image shifts are minimized for smooth, high-quality movie footage. The breathing compensation function<sup>3</sup> provided in compatible  $\alpha$  bodies is also supported, further reducing unwanted image shifts while focusing.

### **Built-in Optical SteadyShot™**

Shooting handheld at super-telephoto focal lengths is made easier by the built-in Optical SteadyShot image stabilization. MODE 2 is ideal for panned shots, while MODE 3<sup>4</sup> provides improved viewfinder stabilization for easier framing of active subjects. Even better stabilization plus enhanced body-lens communication and control are available when used with compatible  $\alpha$  bodies<sup>5</sup>.

### **Durability and ease for tripod shooting**

The tripod mount foot provides 1/4-20 UNC and 3/8-16 UNC screw sockets for compatibility with a wide range of tripods and can be quickly rotated for horizontal or vertical orientation. Durable components, optimized balance, and a non-removable design maximize reliability and performance in challenging conditions.

### **Focus hold buttons offer flexible control**

Three focus hold buttons at 90° increments around the lens barrel allow instant focus hold operation in either horizontal or vertical orientations, whether the camera is being held normally or upside-down. Functions other than focus hold can be assigned to the buttons as needed.

### **Extra reliability for outdoor shooting**

Internal zoom coupled with a dust and moisture resistant<sup>6</sup> design provide ample reliability when shooting outdoors. The front element features a fluorine coating that repels contaminants and makes the lens easier to clean. The lens hood is a new design with a lock button for easy attachment and removal, and a filter opening for easy operation.

## **Specification**

<b>Lens Specifications</b>	
Lens Mount	Sony E-mount
Format	35mm full frame
Focal-Length (mm)	400-800
35mm equivalent focal-length (APS-C) (mm)	600-1200
Lens Groups / Elements	19-27
Angle of View (APS-C)	4°10'-2° * With interchangeable-lens digital camera incorporating APS-C type image sensors.
Angle of View (35mm)	6°10'-3°10'
Maximum Aperture (F)	6.3-8
Minimum Aperture (F)	36-45
Number of Aperture Blade	11
Circular Aperture	Yes
Minimum Focus Distance (m)	1.7-3.5
Minimum Focus Distance (ft)	5.58-11.5
Maximum Magnification Ratio (x)	0.23
Filter Diameter (mm)	105
Image Stabilization (SteadyShot)	Optical SteadyShot
Zoom System	Manual
Teleconverter Compatibility (x1.4)	SEL14TC
Teleconverter Compatibility (x2.0)	SEL20TC
Hood Type	Round shape, bayonet type
Dimensions dia. x length (mm)	119.8 x 346

Dimensions dia. x length (in.)	4-3/4 x 13-5/8
Weight (approx.) (g)	2475
Weight (approx.) (oz.)	87.4
Type	Interchangeable lens
<b>What's in the Box</b>	
Supplied Accessories	Hood (model)   ALC-SH181, Lens front cap   ALC-F105S, Lens rear cap   ALC-R1EM, Lens strap

1. As of the February 26, 2025
2. Sony test conditions. Maximum continuous shooting speed may be lower in some conditions. Continuous shooting speed may vary in the AF-C focus mode.
3. For compatibility information see: <https://www.sony.net/dics/breathing/> Angle of view and image quality may change slightly when this function is used. Effective compensation may not be achieved in all situations. Not available while shooting stills.
4. MODE 3 is supported by the latest body software version. Please refer to the appropriate support web pages for information on body compatibility.
5. Please refer to the support page <https://www.sony.net/dics/fnc1002/> for details of compatible cameras. Correction effect depends on the lens.
6. Not guaranteed to be 100% dust and moisture proof.

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