

SONY

SEL85F14GM

Full-frame G Master telephoto prime lens

Portrait performance reaches a new pinnacle with astonishing resolution plus bokeh of unmatched beauty. This 85mm F1.4 portrait lens renders infocus areas with unequalled resolution while the background dissolves into the smoothest, lushest bokeh imaginable. All of this is by design, supported by manufacturing and testing technology that only Sony can provide, for new dimensions of photographic and cinematographic expression.



Key Features

Designed to achieve 50 line pairs/mm resolving power

It is not easy to achieve spatial frequency of 50 lines pairs per millimeter at a lens's widest aperture, but that is Sony's baseline for G Master design. Unprecedented resolution and other demanding design parameters yield outstanding reproduction of the most detailed subjects and scenes with superior contrast throughout every frame. G Master resolution is simply the highest in its class.

Previously unattainable surface precision

Built with three aspherical elements including a newly developed and essential ingredient for astonishing resolution - is a new XA (extreme aspherical) lens element with better than 0.01-micron surface precision. The extremely precise XA element reduces aberration and delivers the ultimate resolution throughout the entire zoom range and aperture range, as well as from corner to corner of all image files.

Constant F1.4 max aperture maintains exposure and depth of field

Constant F1.4 max aperture maintains exposure and depth of field regardless of the focal range you choose to zoom to. When changing your aperture to defocus the background, the areas out of the focal plane appear blurred. This 'bokeh' effect of the blurred background can be enhanced with circular aperture blades used in this lens.

11-blade circular aperture contributes to gorgeous bokeh

Complementing the performance of the XA element are the first 11-blade circular aperture ever implemented in an α lens, and exacting spherical aberration adjustment for each individual lens. The result is enchantingly soft-edged bokeh that is a hallmark of the Sony G Master series.

When changing your aperture to defocus the background, the light sources appear blurred. This 'bokeh' effect of the blurred background can be enhanced with circular aperture blades used in this lens. Conventional aperture blades have flat sides creating unappealing, polygonal shaped defocussed points of light. α lenses overcome this problem through a unique design that keeps the aperture almost perfectly circular from its wide-open setting to when it is closed by 2 stops. Smoother, more natural defocusing can be obtained as a result.

SSM (Super Sonic Wave Motor) for fast, quiet and precise focusing

Focus precision is vital when working with high-resolution images and a narrow depth of field. A ring SSM (Super Sonic wave Motor) yields the power and precision necessary to accurately and swiftly position one of the heaviest focusing groups in any interchangeable lens for mirrorless cameras, and a new multi-sensor system plus high-speed data processing provides the instantaneous feedback required for flawless autofocus precision.

Nano AR Coating

Sony's original Nano AR Coating technology minimizes flare and ghosting, for dynamic range that achieves lifelike detail and gradation with advanced camera sensors. This precisely defined regular nano-structure allows accurate light transmission, contributing to high-quality images, even more so than with lenses that use coatings with an irregular nano-structure. The reflection suppression characteristic of the Nano AR Coating is superior to conventional anti-reflective coatings, providing a notable improvement in clarity, contrast, and overall image quality.

Dust and moisture resistant for robust reliability



Sony’s standard lens sealing is augmented by a lens mount seal that maximizes resistance to dust and moisture for reliable operation in challenging environmental conditions.* Additional details like rubberized rings that are easy to operate in low temperatures, a zoom lock that prevents unwanted lens extension during transport, and a hood lock button, all add up to professional control and convenience.

ED and Super ED glass reduces flare and ghosting

ED (Extra-low Dispersion) and Super ED glass elements take axial chromatic aberration and chromatic aberration due to differences in magnification out of the picture, maximizing resolution and bokeh while leaving precisely rendered edges with no fringing or unnatural coloration.

Advanced simulation techniques control bokeh right from design

The G Master series elevates resolution to unprecedented heights thanks to new technology specifically developed to accommodate the more exacting tolerances required in the face of continually evolving camera body performance. Sony has applied the most advanced optical technology available in innovative lens elements, optical path design, simulation, testing, and calibration, achieving image detail and sharpness that reveal the essence of every scene and subject.

Instant auto/manual focus selection

Instantly and quickly switch between auto and manual focus via an AM/MF switch on the side of the lens. This makes operation faster and easier as you let the camera and lens focus for you, or decide to take control and manually focus on the precise point you chose.

Focus hold button

Once you’ve adjusted focus to where you want it, pressing this button on the lens barrel will keep the lens locked to that focusing distance. The preview function can also be assigned to this button through the camera’s custom settings.

Specifications

Optics/Lens	
Lens Type	Full-frame G Master telephoto prime lens
Lens Mount Type	Sony E-mount (35mm full frame)
Aperture	Circular
Aperture (Max.)	f/1.4
Aperture (Min.)	f/16
Focal Length (35mm equivalent)	85 mm (35mm) 127.5 mm (APS-C)
Filter Diameter	77 mm
Lens Groups-Elements	8 groups, 11 elements
Minimum Focus Distance	0.85 m (AF) 0.8 m (MF)
Angle of View	29° (35mm) 19° (APS-C)
Aperture Blade	11 blades (Circular aperture)
Aspheric Elements	1 aspherical
Maximum Magnification	0.12x
Weights and Measurements	
Dimensions (Approx.)	3-5/8" x 4-1/4" (89.5 x 107.5 mm)
Weight (Approx.)	29 oz. (820 g)
Accessories	
Supplied Accessories	Lens front cap (ALC-F77S) Lens rear cap (ALC-R1EM) Hood (ALC-SH142, Round shape, bayonet type) Case

1. Although the design is dust and moisture resistant, absolute protection from dust and moisture is not guaranteed.
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