SONY

SEL24105G

24-105mm F4 Full-frame E-mount G lens

With a versatile 24 to 105 mm range, this compact zoom brings outstanding G Lens™ excellence to a variety of still and movie applications. Compact, lightweight mobility makes it a natural choice for a wide range of subjects, while the remarkable blend of impressive optical quality, a constant F4 maximum aperture throughout the zoom range and fast, precise AF, deliver professional performance and reliability.

Key Features

24mm to 105mm constant F4 aperture

24mm wide angle to 105mm mid-telephoto zoom with spectacular corner-to-corner resolution and high optical performance deliver spectacular overall rendering that is consistent with the G Lens brand. Advanced Aspherical (AA) elements, ED (Extra low dispersion) glass elements and Nano AR Coating contribute to control ghosting, flare and aberration. A 9-blade circular aperture and constant F4 aperture deliver beautiful bokeh.

Advanced Aspherical optical design

Four aspherical elements, including two advanced aspherical elements, effectively suppress aberrations, achieving impressively high resolution that fully satisfies expectations for the G Lens brand. Spherical aberration is a slight misalignment of the light rays projected on the image plane, which is caused by differences in refraction at different points on conventional spherical lenses which degrade image quality in large-aperture lenses. Specially shaped "aspherical" elements in this lens restore alignment of light rays at the image plane, maintaining high sharpness and contrast even at maximum aperture and ultra-wide angles. Well-designed aspherical elements can reduce the total number of elements required in the lens, thus reducing overall size and weight.

ED (Extra low dispersion)

Three ED (Extra-low Dispersion) glass elements control chromatic aberration for excellent sharpness from image center to periphery. ED glass elements correct for axial chromatic aberration and chromatic aberration, which affect resolution and bokeh, while leaving precisely rendered edges with no fringing or unnatural coloration.

Nano AR Coating

Sony's original Nano AR Coating technology minimizes flare and ghosting by suppressing internal reflections and maintaining clarity, even in difficult outdoor lighting conditions, 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, 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.

9-blade Circular Aperture

When changing your aperture to defocus the background, light sources appear blurred. This `bokeh' effect of the blurred background is enhanced with the 9-blade circular aperture used in this lens. Conventional aperture blades have flat sides creating unappealing, polygonal-shaped defocused points of light. α lenses overcome this problem through a 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.

Class-leading close-up performance

Class-leading close-up performance with a minimum focusing distance of 14.9" and 0.31x maximum magnification is ideal for portraits, telephoto macro, and more. Contributing refinements include ED glass elements and a floating focus mechanism to control aberration that can be problematic in close-up applications.

Optical Image Stabilization

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Optical SteadyShot Image Stabilization keeps your image stable even when your hands aren't. By compensating for the minor hand motions that can cause blurring and distortion, Optical SteadyShot ensures brilliant photographic results – even at high zooms.

Direct Drive Super Sonic Wave Motor

High-resolution cameras demand absolute focus precision. A floating mechanism driven by a DDSSM (Direct Drive Super Sonic Wave Motor) actuator maintains outstanding resolution from infinity to close focus for both stills and movies. DDSSM has the capability to position the large, heavy optical assemblies required by large-aperture lenses with pinpoint precision, offering accurate, fast and quiet autofocus. Manual focus response is natural, intuitive and precise with the DDSSM system.

Constant F4 aperture

Constant F4 max aperture maintains exposure and depth of field regardless of the focal range to which you zoom. When changing your aperture to defocus the background, the areas out of the focal plane appear blurred. This 'bokeh' effect of the blurred background is enhanced with circular aperture blades used in this lens.

Dust and moisture resistant[1] 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[1]. Additional details, like rubberized rings that are easy to operate in low temperatures, a customizable focus hold button and a hood lock button, all add up to professional control and convenience.

Instant auto/manual focus selection

Instantly switch between auto and manual focus via an AF/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

The focus hold button not only performs its primary function to lock focus when recomposing, but can be customized to a number of other functions depending on your needs. In addition to Focus Hold, custom functions include: Grid Lines, Eye AF, AF On, Aperture Preview, Shot Result Preview or Bright Monitoring.

Internal Focus maintains lens dimensions

Only the middle groups of the optical system move to achieve focus, so the overall length of the lens does not change while focusing. This is especially useful when using the lens for video with a matte box.

Specifications

Internal Information	
Fluorine coating	Yes
Mount rubber ring	Yes
Lens Specifications	
35mm equivalent focal-length (APS-C) (mm)	36-157.5
Angle of view (35mm)	84°-23°
Angle of view (APS-C)	61°-5°
Circular aperture	Yes
Dimensions dia. x length (in.)	3-3/8 x 4-1/2
Dimensions dia. x length (mm)	83.4 x 113.3 mm
Filter diameter (mm)	77
Focal-length (mm)	24-105
Format	35mm full frame
Hood type	Petal shape, bayonet type
Image stabilization (SteadyShot)	Optical SteadyShot
Lens construction (groups-elements)	14-17

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Lens mount	Sony E-mount
Maximum aperture (F)	4
Maximum magnification ratio (x)	0.31
Minimum aperture (F)	22
Minimum focus distance (ft)	1.25
Minimum focus distance (m)	0.38
Model name	SEL24105G
Number of aperture blade	9
Product name	FE 24-105mm F4 G OSS
Teleconverter compatibility (x1.4)	Incompatible
Teleconverter compatibility (x2.0)	Incompatible
Type	Interchangeable lens
Weight (approx.) (g)	663 g
Weight (approx.) (oz.)	23.4 oz
Zoom system	Manual
Accessories	
Supplied Accessories	Hood (ALC-SH152) Lens front cap (ALC-F77S) Lens rear cap (ALC-F77S) Case

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