

SONY

SEL1635GM

FE 16-35mm F2.8 GM Wide-angle Zoom Lens



Explore the world in creative new ways with exceptional G Master performance in a 16-35mm F2.8 wide-angle zoom. This lens delivers consistently superb resolution from corner-to-corner, no matter what zoom setting or focus distance at which you shoot. It produces stunning background bokeh that can add depth and artistic impact to your images when required. A compact, lightweight design makes the FE 16-35mm F2.8 GM a great choice for active shooting.

Bullets

- Designed to achieve 50 line pairs/mm resolving power
- Two XA (extreme aspherical) elements w/ high surface precision
- Constant F2.8 max aperture maintains exposure and depth of field
- Uncompromising G Master design for smooth bokeh and high resolution
- 11-blade circular aperture contributes to gorgeous bokeh
- Two Direct Drive SSM (DDSSM) for fast, quiet, precise focusing
- Nano AR Coating dramatically reduces flare and ghosting
- Dust and moisture resistant¹ for robust reliability
- ED glass w/ multi-coating reduces chromatic aberration
- Instant auto/manual focus selection via a AF/MF switch
- Customizable focus hold button expands operability
- Fluorine front-element coating helps repel dirt and fingerprints

Features

Uncompromising G Master design

In order to take full advantage of the potential of high-resolution sensors, G Master is designed from the outset for high contrast at the highest possible spatial frequency, thereby achieving outstanding corner-to-corner optical resolution and clarity at all zoom and focus settings. It is not easy to achieve spatial frequency of 50 line pairs per millimeter at a lens's widest aperture, but that is Sony's baseline for G Master design, combining smooth bokeh and high resolution for outstanding reproduction of the most detailed subjects and scenes, with superior contrast throughout every frame. G Master realizes the rare combination of high resolving power and beautifully rendered background defocus.

Previously unattainable surface precision

Two XA (extreme aspherical) elements with extremely high surface precision (better than 0.01-micron) are included and work with three aspherical elements to minimize aberrations that commonly plague wide-angle zooms, effectively controlling distortion, field curvature and astigmatism. The extremely precise XA elements reduce aberration and deliver ultimate corner-to-corner resolution throughout the entire zoom and aperture range.

Constant F2.8 max aperture

Constant F2.8 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.

11-blade circular aperture contributes to gorgeous bokeh

When changing your aperture to defocus the background, light sources appear blurred. This 'bokeh' effect of the blurred background is enhanced with the 11-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.

Two Direct Drive Supersonic Wave Motor (DDSSM)

High-resolution cameras demand absolute focus precision. A floating mechanism driven by two DDSSM (Direct Drive Super Sonic Wave Motor) actuators 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 and intuitive with the DDSSM system.

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.

Dust and moisture resistant¹ 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 conditions¹. 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.

ED glass minimizes chromatic aberration

Two ED (Extra-low Dispersion) 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 minimal fringing or unnatural coloration.

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: 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. In addition, the filter thread at the front of the lens does not rotate, which is convenient if you're using a polarizing filter.

Fluorine front-element coating

The front lens element features a fluorine coating that helps to prevent dirt and fingerprints from sticking, and makes it easier to wipe dirt and fingerprints away if they become attached to the lens surface. This is a lens that can be used with confidence in a variety of challenging outdoor conditions.

Specification

Lens Specifications	
Lens mount	Sony E-mount
Format	35mm full frame
Focal-length (mm)	16-35mm
35mm equivalent focal-length (APS-C) (mm)	24-52.5mm
Lens construction (groups-elements)	13 Groups – 16 Elements
Angle of view (APS-C)	83°-44° (With interchangeable-lens digital camera incorporating APS-C type image sensors.)
Angle of view (35mm)	107°-63°
Maximum aperture (F)	F2.8
Minimum aperture (F)	F22
Number of aperture blade	11 blades
Circular aperture	Yes
Minimum focus distance	0.92" (0.28m)
Maximum magnification ratio (x)	0.19x
Filter diameter (mm)	82mm
Zoom system	Manual
Hood type	Petal shape, bayonet type
Dimensions dia. x length	3-1/2 x 4-7/8" (88.5 x 121.6mm)
Weight	24oz (680g)
Other Product Relationships	
Supplied Accessories	Lens front cap (ALC-F82S) Lens rear cap (ALC-R1EM) Hood (ALC-SH149, Petal 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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