

## • Instruction Manual for 85mm F1.4 Aspherical IF Lens

Thank you for purchasing our 85mm F1.4 aspherical IF lens. We believe that unique photography is possible when using our lens.

Our complex aspherical lens manufacturing technology, coupled with state-of-the-art optical technology, led to a lens that was patented, designed and manufactured for photography. Samsung was able to maintain the quality of the lens thoroughly and to reduce aberrations.

Advantages of the 85mm F1.4 aspherical IF lens:

1. Corrects aberrations using a complex aspherical lens and, at a fully opened position, produces a high resolution and a high contrast at the center of the lens as well as around the periphery of the lens.
2. Uses high quality optical glass for optimal refraction and dispersion.
3. Delicate focus control with smooth operation.
4. Coating design by controlling ghosting as much as possible and reproducing vivid color images.
5. Maintains compact size with inner focus design.
6. Produces smooth focusing by means of the aperture design, which comes close to a circular shape with its 8 diaphragm blades.

The 85mm F1.4 aspherical IF lens for photography is designed with its own mount. Users can photograph easily without installing an additional adaptor, by mounting the lens directly onto the camera.

Read this instruction manual carefully and use it properly.

\* Please read the safety precautions at the back of this instruction manual prior to use.

● Read this instruction manual prior to use. ●

## 2. Attaching and Detaching Camera

The 85mm F1.4 aspherical IF lens mount is uniquely designed for Nikon (Fujifilm), Pentax (Samsung), Sony (Minolta) and Canon cameras respectively.

**[Attaching]**  
Hold the hood locking area of the lens softly, align the depth of field scale of the lens with the lens ring mount of the camera, push the lens into the camera and turn the lens softly until it makes a clicking sound and the depth of field scale is positioned on the upper part of the camera.

**[Detaching]**  
Hold the hood locking area of the lens softly, press the lens release button on the camera, turn the lens until the depth of field scale of the lens is aligned with the lens ring mount of the camera, and then pull the lens out.

## 3. Focus Adjustment

The user can set the focus of a subject by turning the focus adjustment ring when using the 85mm F1.4 aspherical IF lens, as it is an MF (Manual Focus) adjustment lens.

**[Nikon (Fujifilm) / Pentax (Samsung) Mount]**

1. When focusing on a subject from a long distance, turn the focus ring to the left (∞ to 1) and focus on the clearest subject by using the indication signal on the camera or by checking visually.
2. When focusing on a subject from a short distance, turn the focus ring to the right (1 to ∞) and focus on the clearest subject by using the indication signal on the camera or by checking visually.

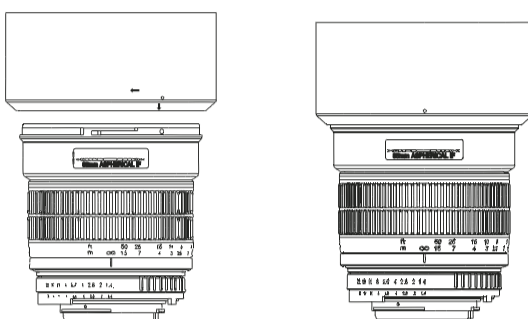
Each number is set as 1 stop apart (1EV). Brightness can be set more precisely by using the stop setting in between.

ex)  
1.4 and 2 are set as 1 stop apart (1EV).  
22 16 11 8 5.6 4 2.8 2 1.4  
I

Set a 0.5 stop (0.5EV) between 1.4 and 2.  
22 16 11 8 5.6 4 2.8 2 1.4  
I

## 5. Mounting a Hood

The hood has a bayonet system, and guarantees maximized speed and efficiency, safe and precise installation and facilitates the enjoyment of shooting that is free from ghosting or flaring.



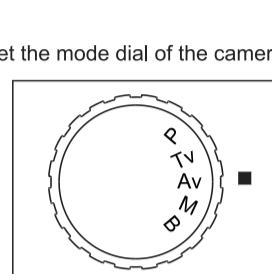
Align the hood indicator and the hood locking indicator on the lens, push the hood in softly, and then rotate to the left until it makes a clicking sound.

## ○ Pentax (Samsung)

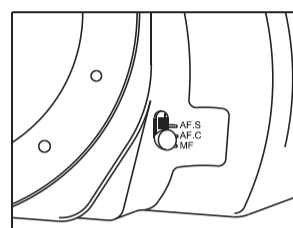
### 1. Av Mode (Aperture Priority Mode)

The 85mm F1.4 aspherical IF Pentax / Samsung mounts support Av mode.

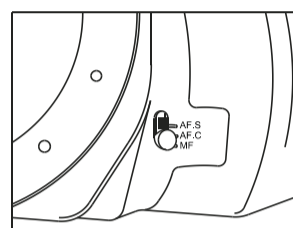
1. Align the A mode indicator to the depth of field scale by pressing the A button installed on the aperture adjustment ring of the lens.



2. Set the mode dial of the camera to 'Av'.



3. Set the focus adjustment lever of the camera to 'MF'.

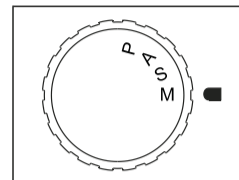


4. Set the menu on the camera. The user sets the menu. ⇒ The aperture ring is used. ⇒ Not allowed.

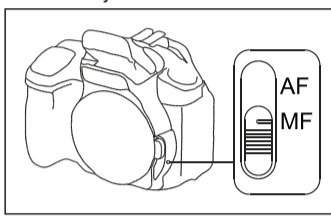
## ○ Sony (Minolta)

The aperture of the 85mm F1.4 aspherical IF Sony (Minolta) mount is not geared to the camera. If the F stop is set to above 8, the user may not be able to set the correct focus due to a difficulty in viewing a subject through the camera viewfinder. Therefore turn the aperture adjustment ring and fully open it when attaching this lens to the camera, and then turn the aperture adjustment ring again to set the depth of focus and brightness you want to express prior to shooting.

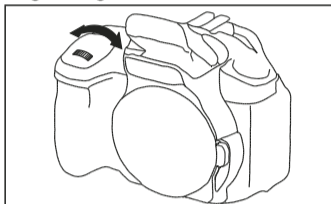
1. Set the mode dial of the camera to 'M'.



2. Set the focus adjustment lever of the camera to 'MF'.



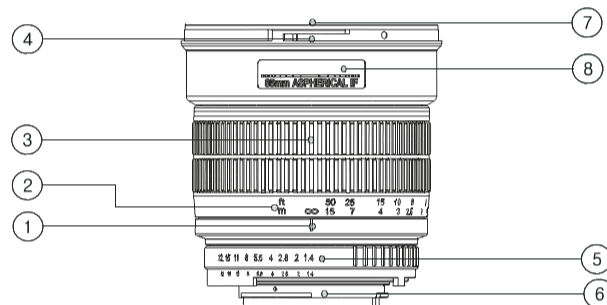
3. Adjust the shutter speed to achieve the appropriate exposure according to brightness.



(The above procedure applies to the α350. Settings for the camera or the menu may be changed depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

## 1. Name of Each Component

[ Fig. ]



1. Depth of field scale
2. Focus scaling ring
3. Focusing ring
4. Hood locking area
5. Aperture adjustment ring
6. Lens ring mount (camera locking area)
7. Filter locking area
8. Trademark plate

## [Sony (Minolta) / Canon Mount]

1. When focusing on a subject from a long distance, turn the focus ring to the right (∞ to 1) and focus on the clearest subject by using the indication signal on the camera or by checking visually.
2. When focusing on a subject from a short distance, turn the focus ring to the left (1 to ∞) and focus on the clearest subject by using the indication signal on the camera or by checking visually.

## 4. Brightness Control

The user can set the brightness he/she wants by turning the aperture adjustment ring when using the 85mm F1.4 aspherical IF lens.

**[Aperture adjustment ring indication]**

1. Nikon (Fujifilm) / Sony (Minolta) / Canon

22 16 11 8 5.6 4 2.8 2 1.4

2. Pentax (Samsung)

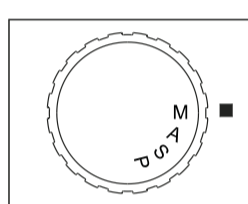
A • 22 16 11 8 5.6 4 2.8 2 1.4

## 6. Camera Settings

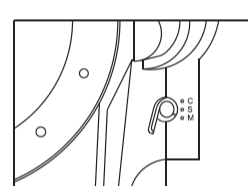
Some cameras require special settings when using this lens. Please refer to the following and set the camera when necessary.

○ Nikon (Fujifilm)

1. Set the mode dial of the camera to 'M'.



2. Set the focus adjustment lever of the camera to 'M'.

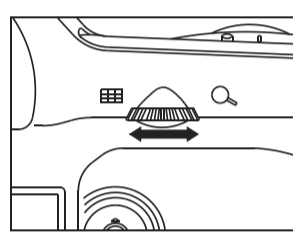


3. Some Nikon digital cameras are able to set the focal length and the brightness when attaching an MF lens. The MF lens can be used more efficiently if the focal length and the brightness are set on some Nikon digital cameras.

\* The shutter speed of some Nikon cameras changes automatically if the focal length and the brightness are set, and the desired brightness is set in A/S/P mode by turning the aperture adjustment ring.

(Settings for the camera or the menu may be changed depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

5. Adjust the brightness by turning the dial at the back of the camera.



(The above procedure applies to the K200. Settings for the camera or the menu may be changed depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

## ○ Konica Minolta (Minolta) DYNA Series

If this lens is used on some Konica Minolta (Minolta) DYNA series cameras, the release lock of the camera for prohibiting misuse must be disengaged. It is required to disengage the release lock only in case of the first use as below.

Disengagement setting procedure for the release lock function:  
1. Turn off the camera.  
2. Detach the lens from the camera body and set the main switch of the camera to ON by pressing the two following buttons.

9s → function button + AE lock button      303s → AV button + self mode button  
7x → function button + AE lock button      303s SUPER → drive button + spot button  
5v → function button + spot button      101s → self-timer button + flash button  
3v → Modification is required at a service center. 300s → self-timer continuous shooting button + scene select button

807s → AE-L button + shooting scene select button      α-Sweet → self-timer continuous shooting button + spot button  
707s → card button + spot button      α-Sweet S → (Set the function dial to the multiple exposure.)  
507s → lens replacement button + ISO lock button      P button + self-timer button  
DYNA300 → shooting scene select button + button      DYNA300 → self-timer button → Turn the left dial on the camera body to off.

α-Sweet II, II L → Set the camera to the custom function 14 and change the selection number 1 to 2 (N.A.).  
α-7, -9, -Ti → Set the camera to the custom function 16 and change the selection number 1 to 2 (N.A.).

α-Sweet Digital → Execute the following operation.  
MENU → \*2 → release lock without a lens → to the right → N.A → ●execute → MENU  
α-7 Digital → Execute the following operation.  
MENU → \*3 → release lock without a lens → to the right → N.A → ●execute → MENU

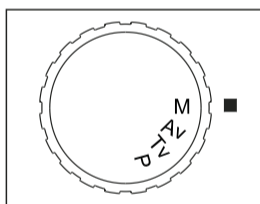
\* The release lock is disengaged in the above way, the state of disengagement is maintained even though the main switch is turned off. Execute the above procedure again if you want to use the release lock function.

(Settings for the camera or the menu may be changed depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

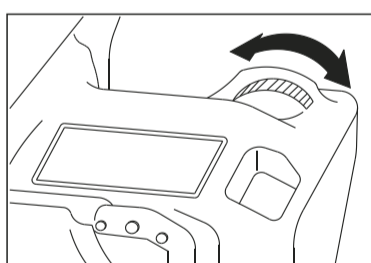
## ○ Canon

The aperture of the 85mm F1.4 aspherical IF Canon mount is not geared to the camera. If the F stop is set to above 8, the user may not be able to set the correct focus due to a difficulty in viewing a subject through the camera viewfinder. Therefore turn the aperture adjustment ring and fully open it when attaching this lens to the camera, and then turn the aperture adjustment ring again to set the depth of focus and brightness you want to express prior to shooting.

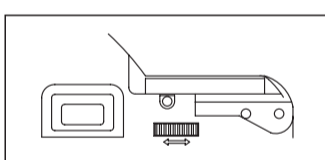
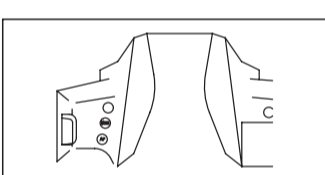
1. Set the camera mode dial to 'M'.



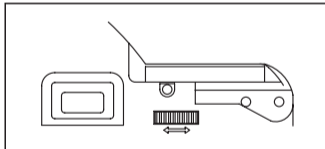
2. Adjust the shutter speed to achieve the appropriate exposure according to brightness.



2. Hold down the AF button and turn the dial until it is set to 'MF'.



3. Adjust the shutter speed by turning the dial to achieve the appropriate exposure for the brightness.



\* For some Four-Thirds cameras, if you set the camera mode dial to 'A' and set the brightness by turning the aperture adjustment ring on the lens, the camera automatically changes the shutter speed. Therefore you don't have to adjust the shutter speed as well, which is required in M mode

(The procedure and description above are given based on the Olympus E-3. The camera settings are different depending on each model and are subject to change due to functional enhancements. Therefore, for detailed information on your camera settings, please refer to your camera manual or contact your camera manufacturer.)

\* The shutter speed of some Samsung NX cameras changes automatically if the shooting mode dial is set to Av and the brightness is set by turning the aperture adjustment ring. Therefore the shutter speed is not required to be set additionally as with the M mode.

(The above procedure applies to the NX10. Settings for the camera or the menu may be changed depending on the model or due to a menu upgrade. Therefore refer to the camera manual or contact the camera manufacturer for detailed information.)

## 7. About Photography

The aperture of the 85mm F1.4 aspherical IF lens supports a maximum brightness of F1.4.

When shooting indoors in the sun's rays, vivid images may not be achieved as the subject will be too bright. Therefore set the appropriate exposure by turning the aperture adjustment ring or by correcting exposure prior to shooting. If the focus is not set correctly with a brightness of F1.4 as the depth of focus is small, then it may result in shooting unclear images. Therefore set the focus correctly and shoot to achieve vivid images.

## 9. Fault Finding

Phenomena	Causes	Measures
A lens can't be attached to the camera.	The lens ring mount and the camera mount are not aligned.	Align the lens ring mount and the camera mount.
A lens can't be detached from the camera.	Incorrect rotation direction for detaching. If the user turns the lens while holding the camera, it may cause damage to the lens.	Press the lens release button on the camera, and lightly turn the lens to the lens attaching and detaching reference points, in the direction as marked on the camera, and then pull the lens forward.
Dark image	Incorrect focusing. Insufficient shutter speed or camera shake.	Turn the focus ring while checking the indication or checking an object visually, set the focus until it reaches a clear point, and then press the shutter. Steady the camera and take a photograph at a shutter speed of 1/125 sec.
Autofocus failure	Autofocus failed with a manual control focus lens.	Set focus by turning the focus ring.
Dark or too bright pictures	Inappropriate exposure	Adjust the aperture size by turning the lens or adjust the shutter speed.
The camera flash is not geared to the camera.	The manual control lens may not be compatible, depending on the camera.	See the camera manual.
The camera finder indication or the display is not displayed.	This lens doesn't have an electric contact signal, so there is no communication with the camera through electric signals.	No problem with shooting.
Zooming failure	This lens is a single lens.	
This lens can't be mounted on other cameras.	This lens is designed for its own mount.	Purchase the required lens mount.
The user wants to attach Samsung's 2X or 1.4X converter lens.	Samsung's converter is designed with a T (M42 screw) mount only. Therefore only an 85mm F1.4 aspherical IF lens can be used.	Use each company's own mount converter. But autofocus is not available.

## 10. Instructions Prior To Use

WARNING	CAUTION
<p>Don't look at the sun through the lens. It may cause blindness.</p> <p>Don't leave the lens within reach of babies, as they may cause injury to the baby if they use it as a toy.</p>	<p>Attach the lens to the camera correctly, and ensure the lens is held in place properly. Otherwise the lens may not be removable, or may become loose and cause an accident.</p> <p>Don't attempt to modify or clean the lens, or try to blow dust on the lens. If the lens is damaged, it should be replaced.</p> <p>Don't leave the lens in direct sunlight. If you leave the lens in direct sunlight, it may cause damage to the lens.</p> <p>Don't look at the sun through the lens. It may cause blindness.</p>

**WARNING!**  
Don't wet this product or expose it to a moist environment. It may cause a fire or electric shock.

**CAUTION!**  
Don't use this product or store it close to devices that generate heat i.e., heaters, thermal regulators, stoves, stereo amplifiers.  
Don't leave the lens in conditions where drastic temperature changes can occur.  
Don't touch the surface of the lens by hand, and avoid making contact with sharp objects.  
Avoid dropping the lens.  
Don't soak the lens in water, and avoid water splashing onto the lens.  
If there are foreign bodies on the lens, use a lens cleaning kit only.

## MEMO

## MEMO