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D-XENON 18-55 / D-XENON 50-200 / SAMSUNG 16-45 F4 User Manual

Thank you for buying a Samsung Lens.
This manual will guide you through using the lens
Please read this manual carefully before using the lens.

ENGLISH

FOREWORD

Thank you for purchasing the Schneider D-XENON/SAMSUNG lens.

This Schneider D-XENON/SAMSUNG lens features a "Quick-Shift Focus System" that lets you finely adjust the focus manually after the focus has been adjusted in addition to allowing you to enjoy taking pictures using autofocus or manual focus by mounting on the SAMSUNG GX -series digital SLR camera.

For further information on the use of this function, refer to p11.

Schneider D-XENON/SAMSUNG lens can be used only with SAMSUNG GX -series SLR cameras. It is not compatible with film SLR cameras.

Please read this operating manual carefully before using the lens to ensure that it is used properly. In addition, also refer to your camera's operating manual.

- Illustrations shown herein may differ from the actual appearance.
- Illustrations shown herein is based on Schneider D-XENON 18-55.

FOR SAFE USE OF YOUR LENS

Although we have carefully designed these lenses for safe operation, please pay special attention to items marked with the following symbols when using this product.



WARNING

This symbol indicates precautions that if not followed, could result in serious injury to the user.



CAUTION

This symbol indicates precautions that if not followed, could result in minor or medium injury to the user or damage to the equipment.



WARNING

- Never look at the sun through the lens or camera. Serious damage to the retina or total loss of eyesight may occur.



CAUTION

- Do not leave the lens in direct sunlight without lens caps. Direct sunlight passing through the lens will be intensified, and should it focus on flammable materials, fire may occur.

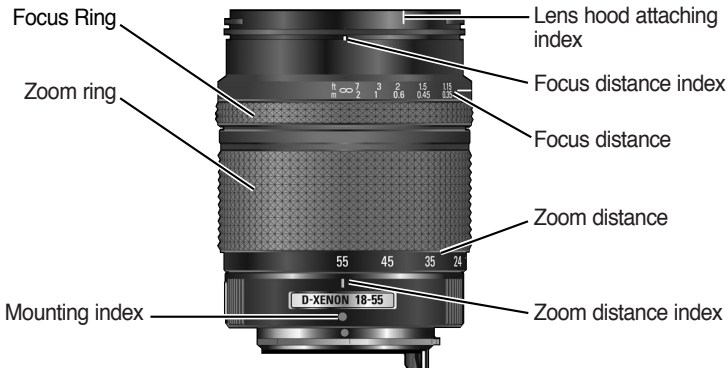
PRECAUTIONS AND LENS MAINTENANCE

1. Storage and mildew prevention
 - Take the lens out of the protective case or camera bag, and store it in a dry, well-ventilated place.
 - Avoid storing the lens in a poorly ventilated location such as a closet, wardrobe, drawer, vehicle, or where insect repellent or medicine is kept.
 - Avoid storing the lens in areas of high temperature and humidity, where there is a risk of mildew growth. Store the lens with a desiccant in a dry cabinet, airtight container, or plastic bag. (Leaving a saturated desiccant in the storage container can cause damage to the lens. Be sure to read the instructions that come with the desiccant before use.)
2. The lens is not waterproof. When using the lens in a rain or mist, be careful not to allow it to get wet.
3. Never use any organic solvent such as thinner, alcohol, or benzene, etc. to remove dust on the lens.
4. The lens is a precise optical instrument. Be careful not to let it fall, or subject it to strong shocks or pressure. Use a cushion or similar pad to protect the lens from the vibrations of motorcycles or other vehicles, boats, etc.
5. Avoid subjecting the lens to rapid changes in temperature, otherwise condensation can occur on both the inside and the outside of the lens. Put the lens in a plastic bag or camera bag, and take it out after the lens has reached ambient temperature.
6. When the lens is not attached to the camera body, attach both the supplied lens cap and lens mountcap to protect it from dust.
7. Do not leave the camera with the lens cap off attached to a tripod or other rigid camera support. The inner parts of the camera can be damaged by direct sunlight.
8. Have the lens inspected by a dealer every one or two years to maintain its high performance.

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LENS



Note:

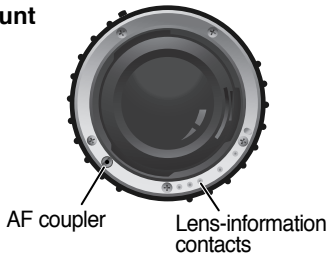
The Schneider D-XENON 18-55/50-200/Samsung 16-45 lens does not have an aperture ring.

About the lens mount

The Schneider D-XENON/SAMSUNG lens is an interchangeable lens specifically designed for the SAMSUNG GX -series digital SLR camera.

The K_{AF}/K_{AF2}-mount of the Schneider D-XENON/SAMSUNG lens is similar to conventional SLR lenses, but the lens cannot be used on 35 mm SLR cameras.

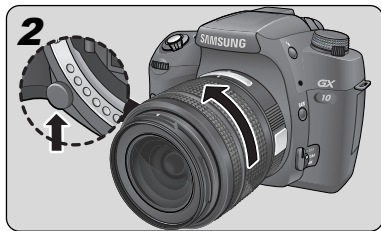
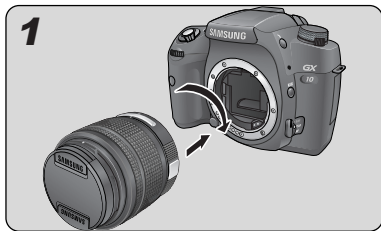
K_{AF}/K_{AF2}-mount



CAUTION

Be careful not to damage or dirty the lens-information contacts and AF coupler on the mount surfaces of the camera and lens. Otherwise, failure or malfunction may occur.

MOUNTING AND REMOVING THE LENS



1. To mount the lens on the camera body

Attach the lens while aligning the red dots on the lens and body, then turn the lens clockwise until it clicks in place.

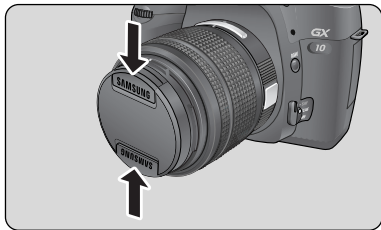
Memo:

- Do not hold down the lens unlock button while mounting the lens, otherwise the lens will not be properly mounted.
- After mounting the lens, gently turn the lens counterclockwise to make sure it is locked in place.

2. To remove the lens

Hold down the lens unlock button on the camera body and turn the lens counterclockwise.

LENS CAP

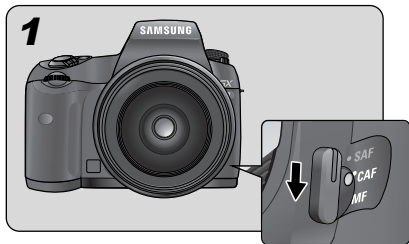


Take off the lens cap by pressing the two tabs inward as shown above.

 **Memo:**

- When not using the lens, be sure to attach the lens cap.

FOCUSING



Changing the Focus Mode

Use the camera's focus mode switch to change between the auto focus (SAF, CAF) mode and manual focus mode. For details, refer to your camera's manual.

1. Using Autofocus

Set the camera's focus mode to autofocus (AF/SAF/CAF). Press the shutter button halfway to autofocus.

■ Focusing with the OK Button

With the GX-1S/1L camera set as explained below, auto focusing by pressing the shutter button halfway will be disabled and the OK button can be used instead to auto focus. On the [C Custom menu], select [Enable AF] for [OK btn when shooting].

■ Focusing with the AF Button

With the GX-10 camera set as explained below, auto focusing by pressing the shutter button halfway will be disabled and the AF button can be used instead to auto focus. On the [CUSTOM1 MENU] menu, select [Enable AF] for [AF Button Function].

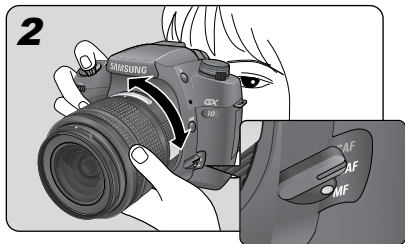
Memo:

- For details on the setting procedure, refer to the camera's instruction manual.

CAUTION

During autofocus, the focusing ring of following lenses will rotate.

- **To prevent malfunction, do not touch the focusing ring during autofocus.**
 - Schneider D-XENON 18-55mm F/3.5-5.6 AL
 - Schneider D-XENON 50-200mm F/4-5.6 ED
 - SAMSUNG 16-45mm F/4 ED AL



2. Using Manual Focus

Set to MF with the camera's focus mode, and turn the focusing ring to focus manually.

Using the Quick-Shift Focus System (GX -series cameras only)

If you use the lens with an GX -series camera and the focus mode is set to autofocus, you can focus manually after autofocus is achieved. Just turn the focusing ring to manually touch-up the focus. You can do this without changing the focus mode to MF.

How to use the Quick-Shift Focus System

1. Using Autofocus

Set the camera's focus mode switch to autofocus, then press the shutter button halfway to autofocus.

2. Hold down the shutter button halfway (or hold down the OK button) and then turn the focusing ring to focus.

※ You can focus the subject with the OK button (GX-1S / 1L) and the AF button (GX-10).

3. Finally, press the shutter release button fully to take a picture.

CAUTION

During autofocus, the focusing ring of following lenses will rotate.

- **To prevent malfunction, do not touch the focusing ring during autofocus.**
 - Schneider D-XENON 18-55mm F/3.5-5.6 AL
 - Schneider D-XENON 50-200mm F/4-5.6 ED
 - SAMSUNG 16-45mm F/4 ED AL
- **When using the Quick-Shift Focus System, keep pressing the shutter button after you achieve focus before taking a picture. If you let go of the shutter button before taking the picture, you will have to focus all over again when you press the shutter button again. In the following cases, you can take the picture without autofocus after letting go of the shutter button.**
 - With the GX-1S/1L camera, use the [C Custom] menu to set [Cancel AF] for [OK btn when shooting]. This will enable you to focus manually while you hold down the OK button. The setting procedure and more details are explained in the camera's instruction manual.
 - With the GX-10 camera, use the [CUSTOM1 MENU] menu to set [Cancel AF] for [AF Button Function]. This will enable you to focus manually while you hold down the AF button. The setting procedure and more details are explained in the camera's instruction manual.



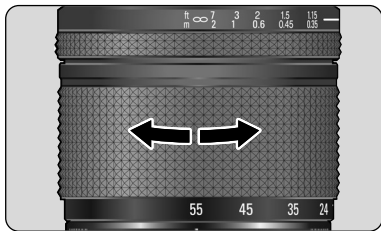
Precautions on close-distance scale

(For Schneider D-XENON 18-55mm F/3.5-5.6 AL, SAMSUNG 16-45mm F/4 ED AL)

In the close-distance scale range, when shooting at the maximum aperture, image quality deterioration in the corners of picture may occur because of the optical characteristics of the lens.

When taking a picture in this range, we recommend that you use a smaller aperture with stopping down from wide open. (When using the SAMSUNG 16-45mm lens, the aperture value is fixed as F4.)

Zoom Ring



The zoom lens has a focusing ring at the front and a zoom ring behind it. Turn the zoom ring to set the desired angle of view (lens focal length).

Memo:

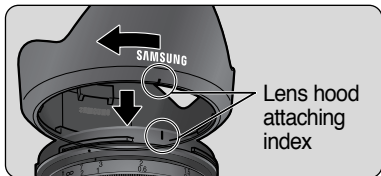
- The focusing point may shift slightly by changing the focal length. First adjust the zoom and then adjust focus.

About the zoom ring

Turn the zoom ring clockwise for telephoto and counterclockwise for wide-angle.

ATTACHING THE LENS HOOD

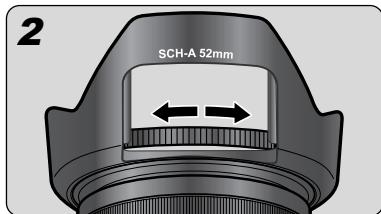
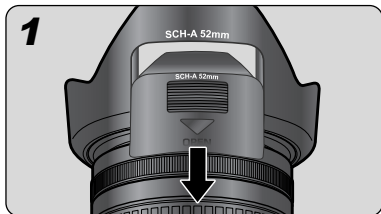
In order to avoid the deterioration in image quality from internal reflection, use of the lens hood is recommended.



When attaching the lens hood, align the index on the lens hood with the attaching index on the lens, and push both parts straight toward each other. Attach the lens hood on the lens by turning the hood in the clockwise direction to lock it as viewed from the front of the lens until it clicks into position.

Memo:

- When attaching the lens hood, hold the focus ring and zoom ring securely to prevent them from turning.
- When the lens hood is not in use, it can also be turned around and attached in the reversed position.



About the PL filter window

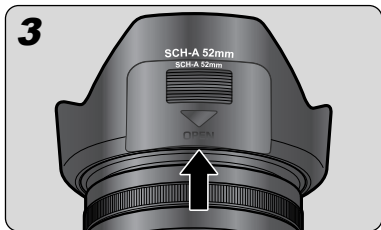
If a circular polarizing filter is attached to the Schneider D-XENON/SAMSUNG lens, you can easily turn the filter via the PL filter window on the bayonet-type hood.

Lens hood with [PL filter window]

- Schneider D-XENON 18-55mm F/3.5-5.6 AL
- Schneider D-XENON 50-200mm F/4-5.6 ED
- SAMSUNG 16-45mm F/4 ED AL

How to use the lens hood with polarizing filter window

1. Remove the PL filter window cap by sliding it in the direction as shown above.
2. Turn the outer rim of the circular polarizing filter from the PL filter window as shown above.



3. Attach the PL filter window cap.

Memo:

- When shooting, be sure the PL filter window cap is in place to make that the lens hood is being used to maximum effect.

FILTERS

Make sure the filter size matches the lens and then attach the filter onto the lens.

Memo:

- The compatible filter sizes for all the lenses are listed on pages 20.

■ Precaution on filters

- Since the filter becomes a part of the optics when attached on the lens, handle it in the same way you handle the lens with care to dust, dirt and scratches. Normally, attaching two or more filters on a lens is not recommended. However, attaching a circular polarizing filter and another filter would not be a problem.
- Use a circular polarizing filter with Autofocus camera for proper exposure and autofocusing.
- According to the filter manufacturer, some circular polarizing filter can't be attached on this lens hood.
- Do not use filters at the same time. It may cause a decrease in image quality and vignetting.
- If you use a wide angle lens and the filter frame is thick, the vignetting may happen.

PRECAUTIONS WHEN USING THE LENS WITH A FLASH

Built-in Flash

The built-in flash can not be used when the distance is less than 0.7m. When the flash is used within 0.7m, that causes incorrect exposure control and vignetting in the picture corners.

- Refer to the “Compatibility of Lenses with the Built-in Flash” chart for information on the compatibility of the built-in flash with the lens being used. Furthermore, please note that when using the GX -series camera, a warning indication does not appear even when taking a picture with a built-in flash that is incompatible with the lens being used.
- The built-in flash may be blocked by the lens hood. Always make sure to remove the lens hood before using the built-in flash.

Compatibility of D-XENON Lenses with the Built-in Flash

Lens	Compatibility	Notes
Schneider D-XENON 18-55mm F/3.5-5.6 AL	YES	
Schneider D-XENON 50-200mm F/4-5.6 ED	YES	
SAMSUNG 16-45mm F/4 ED AL	YES	

MAIN SPECIFICATIONS

Lens	Schneider D-XENON18-55mm	Schneider D-XENON 50-200mm	SAMSUNG 16-45mm
Focal Length	18-55mm (equivalent to 27.5~84mm in 35mm format)	50-200mm (equivalent to 76.5~306mm in 35mm format)	16-45mm (equivalent to 24.5~69mm in 35mm format)
Usable camera	Samsung DSLR cameras	Samsung DSLR cameras	Samsung DSLR cameras
Elements in groups	9 groups, 12 elements	10 groups, 11 elements	10 groups, 13 elements
Angle of View	29° ~ 76°	8.1° ~ 31.5°	35° ~ 83°
Aperture	F3.5 ~ F5.6	F4 ~ F5.6	F4
Mount Type	PENTAX KAF/KAF2 mount	PENTAX KAF/KAF2 mount	PENTAX KAF/KAF2 mount
Minimum Focus Distance	0.25m	1.1m	0.28m
Maximum Magnification	Approx. 0.34X	Approx. 0.24X	Approx. 0.26X
Lens Hood	SCH-A52	SCH-B52	SCH-L67
Filter Size	52mm	52mm	67mm
Max. Diameter x Length	68.5x67.5mm	66.5x78.5mm	72x92mm
Weight	225g (without hood)	255g (without hood)	365g (without hood)

* Specifications are subject to change without prior notice.

* All trademarks are the property of their respective owners.

For customers in USA

STATEMENT OF FCC COMPLIANCE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

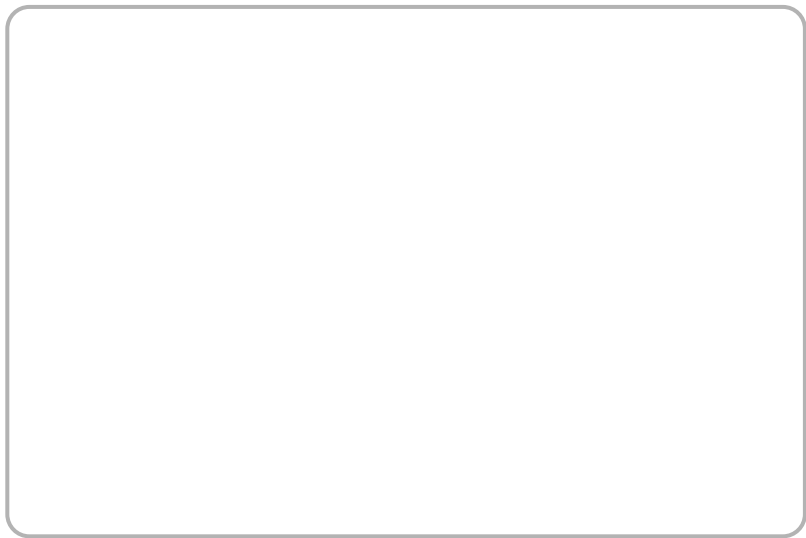
*Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada

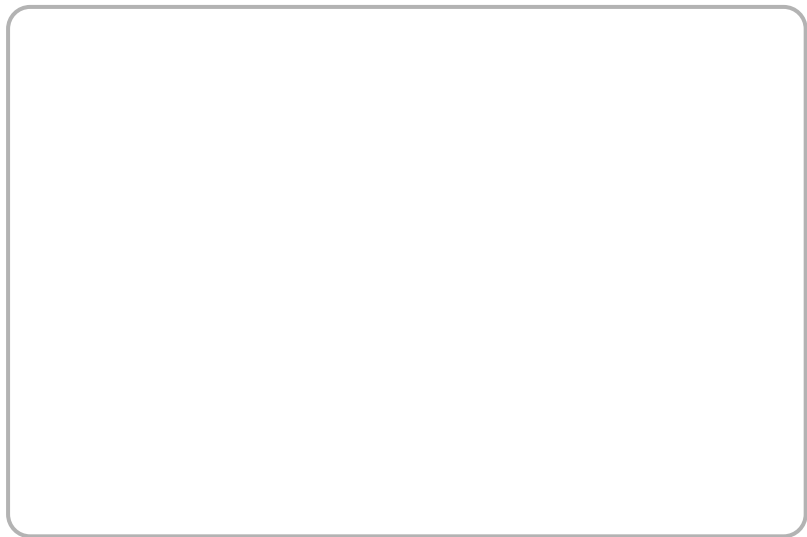
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

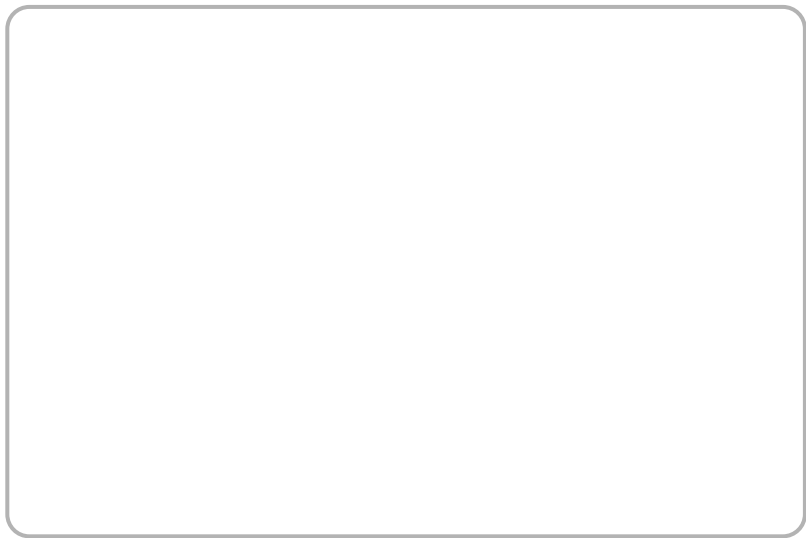
MEMO



MEMO



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mark of the European Community (EC)

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