• 12mm T3.1 ED AS NCS FISH-EYE (for Cinema)

Instruction Manual

We believe that this new 12mm T3.1 ED AS NCS FISH-EYE lens for video recording will give you a special photographic experience.

Advantages of 12mm T3.1 ED AS NCS FISH-EYE

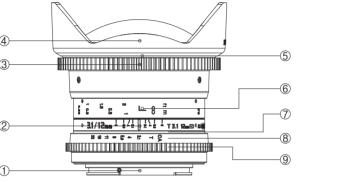
- 1. The lens can handle the 35mm full frame image size.
- 2. With its compact size, the lens is easy to carry and it can produce various images in shooting at a long distance or short distance.
- 3. With an optical design in stereo-scopic projective mode, the lens can express distortion smoothly, thereby producing stable images.
- 4. It compensates for aberrations by using a low dispersion lens and glass aspherical lens and, at the fully opened position, produces a high resolution and a high contrast at the center of the lens as well as around the periphery.
- 5. Attachable petal hood for reinforcing the user convenience.
- 6. NCS (Nano Coating System) for providing high contrast and the best picture quality with extremely low reflection coating.
- 7. High strength aluminum body with robust durability.
- 8. Smooth control when a follow focus is attached since the lens is equipped with a gear for the focus and aperture.

The 12mm T3.1 ED AS NCS FISH-EYE lens for video recording is designed with its own mount. You can mount the lens directly onto the camera without using an additional adaptor.

- * Please read this instruction manual carefully and use it accordingly.
- X Please read the 'Safety Precautions' at the back of this instruction manual prior to use.

1. Component Names

(Figure)



- mount)
- ① Mount (Camera ② Reference Line of ③ Focusing Gear Distance Scale

4 Hood

(7) Point Ring

- (5) Hood Mount Barrel (6) Focus Scale Ring
- T Number Aperture Adjustment

2. Attaching and Detaching

The 12mm T3.1 ED AS NCS FISH-EYE lens mount is uniquely designed for Canon. Nikon(Fujifilm)F, Pentax(Samsung GX)K, Sony(Minolta)a, Canon M, Sony E, Fujifilm X. Samsung NX. Fourthirds. Micro four-thirds compatible cameras.

[Attaching]

Gently hold the lens hood, align the camera mount attachment point with the attachment reference point or line on the lens, push the lens into the camera and gently rotate the lens 90 degrees clockwise from the front view, until it makes a clicking sound.

[Detaching]

Gently hold the lens hood, press the lens release button on the camera, and turn the lens counterclockwise to detach the lens.

3. Focus Adjustment

When using the 12mm T3.1 ED AS NCS FISH-EYE lens, you can set the focus of a subject by turning the focusing gear, since it is an MF (Manual Focus) adjustment lens.

[Nikon (Fujifilm) F / Pentax (Samsung GX) K Mount]

- ① To change the focus from a subject that is far away to a subject that is close, Turn the focusing gear counterclockwise (from ∞ to 0.2) and focus on the clearest subject by using the indicator signal on the camera or by checking visually.
- ② To change the focus from a subject that is close to a subject that is far away,turn the focusing gear clockwise (from 0.2 to ∞) and focus on the clearest subject using the indicator signal on the camera or by checking visually.

[Canon, Canon M/FT,MFT/Fujifilm X/Samsung NX/Sony α , E Mount]

- ① To change the focus from a subject that is far away to a subject that is close.Turn the focusing gear clockwise (from ∞ to 0.2) and focus on the clearest subject by checking visually
- ② To change the focus from a subject that is close to a subject that is far away, Turn the focusing gear counterclockwise (from 0.2 to ∞) and focus on the clearest subject by checking visually.

4. Brightness Control

Turn the aperture adjustment gear to set the desired brightness for the 12mm T3.1 ED AS NCS FISH-EYE lens.

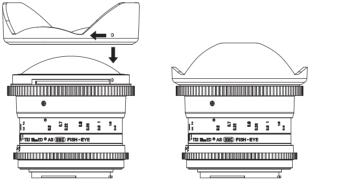
You can set T NO from 3.1 to 22.

(The aperture is not positioned at any exact point, since it is adjustable continuously.)

5. Mounting the Hood

The hood has a bayonet system which guarantees speedy, efficient, safe and precise installation, and enables you to enjoy shooting that is free from ghosting or flaring.

(Figure)



Align the attachment reference point on the hood with the reference point for a hood on the lens, push the hood onto the lens and turn the hood clockwise until it makes a clicking sound.

6. Camera Settings

Some cameras require special settings when using this lens.

O Canon Mount

- 1) Record a video in Av. Tv. P. CA.
 ☐ or M mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum of 1/30

(The procedures above are for the 5D MARKII. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Nikon Mount

Please refer to the following and set the camera when necessary.

- 1) Record a video in M or A mode.
- 2) Adjust the exposure using the dial steps +5 to -5.

(The procedures above are for the D7000. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Pentax K Mount

- 1) Record a video in P mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum

(The procedures above are for the K-30. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Sony α Mount

1) Record a video in A. S. P or M mode.

(The procedures above are for the A580. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Canon M Mount

- 1) Record a video in Av. Tv. P. CA or M mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum

(The procedures above are for the Canon M. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Fujifilm Mount

1) Record a video in P mode.

(The procedures above are for the X-Pro1. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Sony E Mount

- 1) Record a video in A, S, P or M mode.
- 2) Adjust the exposure by rotating the dial at the back of the camera

(The procedures above are for the NEX-5. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)



Please read this instruction manual prior to use.



O Samsung NX Mount

- 1) Record a video in A. M or 🎛 mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum

(The procedures above are for the NX-200. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Four Thirds FT Mount

- 1) Record a video in A, P, A or M mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum

(The procedures above are for the E-5. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

O Micro Four Thirds Mount

- 1) Record a video in $\[\] \]$, P, A or M mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum

(The procedures above are for the E-5. The settings for the camera or the menu may vary based on the camera model or due to a functional upgrade. Refer to the camera manual or contact the camera manufacturer for detailed information.)

7. SPEC

SPECIFICATIONS		1:3.1 12mm ED AS NCS FISH-EYE LENS										
APERTURE RANGE (T-STOP)		T3.1 to T22										
OPTICAL CONSTRUCTION		12 elements in 8 groups (2 aspherical lens)										
MINIMU		OCUSING	0.20 m (0.66 ft)									
FILTER SIZE		NONE										
MAXIMUM DIAMETER		Ø 81.6mm										
MOUN	г		NIKON	CANON EOS	PENTAX K	SONY a	CANON M	FUJIFILM X	SAMSUNG NX	SONY	FOUR -THIRDS	MICRO FOUR -THIRD:
		35mm	180°	180°	180°	180°				180°		
ANGLE OF VIEW		APS-C	124,6°	118°	124.6°	124,6°	118°	124 <u>.</u> 6°	124 <u>.</u> 6°	124,6°		
		FOUR_ THIRES 4/3"									97.3°	97.3°
LENGTH (LENS MOUNT TO FRONT)		70,2mm	72,7mm	71,2mm	72,2mm	98,6mm	99mm	91,2mm	98,7mm	78mm	97,5mm	
WEIGHT (CAP, HOOD DETACHABLE)		510g	525g	515g	520g	535g	575g	525g	535g	540g	530g	
		MODULE						0.8				
	A		6mm									
	В		4mm									
GEAR	С		42.8mm									
	D		8mm	10.5mm	9mm	10mm	36.4mm	36.8mm	29mm	36.5mm	15.8mm	35.3mm
	FOC	US DIAMETER	Ø 81.6mm									
	APER	TURE DIAMETER	Ø70.4mm Ø 73.6mm									

8. In case of malfunction

<i>5</i> 71			
	Issue	Cause	Countermeasures
	A lens cannot be attached to the camera.	The reference point on the lens is not aligned with the lens attachment reference point on the camera.	Align the attachment reference point on the lens with the lens attachment reference point on the camera.
	A lens cannot be detached from the camera.	Incorrect rotation direction for detaching the lens.If you turn the lens while holding the camera, it may cause damage to the lens.	Hold down the lens release button on the camera, gently turn the lens toward the lens attachment/detachment reference point marked on the camera, and then pull the lens away.
	Blurry images	Incorrect focusing,Camera shake, or insufficient shutter speed.	Adjust the focus on the clearest subject by turning the focus ring while checking the object with the camera indicator or visually, and then press the shtuter./Fix the camera to prevent camera shake by securing the shutter speed over 125 seconds and then take photographs.
	Automatic focusing does not work properly.	A manual focusing lens has trouble with automatic focusing.	Turn the focusing ring to focus on a subject.
	The pictures are too dark or too bright.	The exposure is incorrect.	Set the aperture adjustment ring of the lens correctly.
	The periphery gets dark when using a manual camera or a digital camera for a 1:1 image sensor.	As this lens is optimized for APS-C size images, the periphery gets dark when using a digital camera for 1:1 sized images.	Use a digital camera for APS-C sized images.
	The camera flash is not synchronized to the camera.	The manual focusing lens may not be compatible depending on the camera.	Refer to the camera manual.
	There is no camera finder indication or display.	This lens doesn't have electronic contacts, so there is no electronic communication with the camera.	No problem with shooting.
	Zoom failure.	This lens is a single lens.	
	This lens cannot be mounted on other cameras.	This lens is designed for a specific mount type.	Purchase the designated lens mount.
	You want to attach our 2X or 1.4X converter lens.	Our converter is designed for the T (M42 SCREW) mount only, thus it cannot be used with this product.	You can use each company's own mount converter. However, be aware that auto focusing is unavailable.

10. Safety Precautions

followed, it may cause death or severe injury to the user.	A Shows instruction, Inside the pi	,				
	(The pictogram on the left shows the prohibition of disassembly. Shows instruction. Inside the pictogram it shows contents of instructions. (It shows instruction of precaution in the pictogram on the left.)					
∆ Warning						
Onth look at the sun through the lers to the camera omerchy and make sure that the lers to the camera omerchy and make sure that the lers is statched firmly. If the left is statched firmly, if may not be pulled out or it may fall down, causing injury.	On not apply excessive weight on the lens statched to the occurrent. It may cause damage to the lens and carrier incursit. Be sure to hold the lens when operating or moving.	Pinsure that the camera operates properly by checking the tens beforehand or by test shooting for important events such as a wedding operating and properly and p				
Neep the lens out of children's reach. It may drop trail down, causing injury. Do not modify or alter the camera, Modified or altered tenses may not be repaired.	Don't leave the lens in direct sunlight. It may cause a fire, depending on lenses that concentrate light on a close object.	Don't look at the sun directly through a camera with a lens attached. It may cause damage to one's eyesight.				

CAUTION!

- Don't use this product or store it close to devices that generate heat i.e., heaters, thermal regulators, stoves, stereo amplifiers.
- Do not expose the lens to drastic temperature changes.
- Do not touch the surface of the lens with your hand, or let it come into contact with sharp objects.
- Do not drop the lens.
- Do not 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.