• 20mm T1.9 ED AS UMC (for Cinema) Instruction Manual

We believe that this new 20mm T1.9 ED AS UMC lens for video recording will give you a special photographic experience.

The 20mm T1.9 ED AS UMC lens uses extra low dispersion and aspherical lens elements plus UMC coating for incredible edge-to-face sharpness.

Advantage of the 20mm T1.9 ED AS UMC

- 1. Optical design optimized for cameras with a Full Frame image sensor
- 2. Uses Extra Low Dispersion and Aspherical lens elements for outstanding optical performance.
- 3. 7 aperture blades provide a circular aperture for a pleasing bokeh.
- 4. The hood and UMC(Ultra Multi Coating) design suppresses flaring and ghosting.
- 5. Robust durability with a high strength aluminum alloy body.
- 6. Smooth control when a follow focus device is attached due to the built-in gearing for focus and
- 7. Close-focus distance of 0.2m offers maximum flexibility when selecting subject-matter.

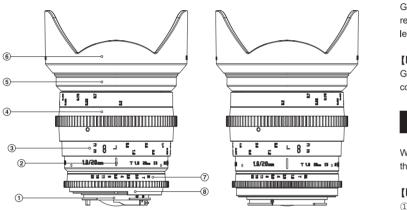
The 20mm T1.9 ED AS UMC lens is designed to fit specific camera mounts.

Read this manual carefully to ensure correct operation with your camera.

- ※ 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 (camera locking area)
- ② Gear for aperture adiustment
- (5) Gear for focus adiustment

7 Hood

Focus Scale

T number

indicator mark

③ Distance scale

6 Hood locking tube

2. Attaching and Detaching

The 20mm T1.9 ED AS UMC lens mount is uniquely designed for Canon, Nikon (Fujifilm) F. Pentax (Samsung GX) K, Sony (Minolta) α, Cannon M, Sony E, Fujifilm X, Samsung NX, Four-thirds and Micro four-thirds 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 20mm T1.9 ED AS UMC lens, you can set the focus of a subject by turning the focus adjustment gear, since it is an MF (Manual Focus) adjustment lens.

[Nikon, Pentax 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, Sony α, Cannon M, Sony E, Fujifilm X, Samsung NX, FT, MFT

- 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

You can set the brightness you want by turning the aperture adjustment gear when using the 20mm T1.9 ED AS UMC lens.

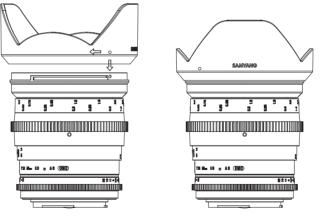
You can set T NO from 1.9 to 22.

(The aperture is a stepless control type, so it does not stop exactly.)

5. Mounting the Hood

The hood 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

(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 B mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum of

(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 Cannon 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 Fuiifilm X Mount

1) Record a video in Emmode.

(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 A mode.
- Please note that while recording a video the shutter speed is limited to a minimum of 1/30.

(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 of 1/30

(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

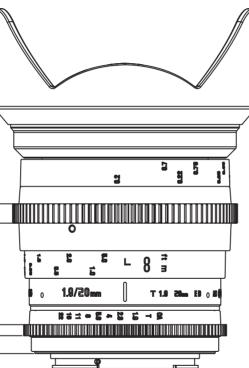
- 1) Record a video in A, P, A, or M mode.
- 2) Please note that while recording a video the shutter speed is limited to a minimum of

(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			1:1.9 20mm AS UMC										
APERTURE	E RANGE	E(T-STOP)	T1.9 to T22										
OPTICAL C	CONSTR	UCTION	13 ELEMENTS IN 12 GROUPS (2 ASPHERICAL LENS)										
MINIMUM FOCUSING DISTANCE			0.2m(0.66ft)										
FILTER SIZE			Ф77.0mm										
MAXIMUM DIAMETER			Ф83.0mm										
MOUNT		NIKON	CANON EOS	PENTAX K	SONY a	CANON M	FUJIFILM X	SAMSUNG NX	SONY E	FOUR -THIRDS	MICRO Four -Thirds		
ANGLE OF VIEW		35mm	94.8°	94.8°	94.8°	94.8°				94.8°			
		APS-C	66.9°	70.3°	70.3°	70.3°	66.9°	70.3°	70.3°	70.3°			
		FOUR-THIRDS 4/3"									56.1°	56.1°	
LENGTH(LENS MOUNT TO FRONT)			85.9mm	88.4mm	86.9mm	87.9mm	114.3mm	114.7mm	106.9mm	114.4mm	93.7mm	113.2mm	
WEIGHT(CAP,HOOD DETACHABLE)		508g	518g	513g	518g	546g	586g	536g	546g	551g	541g		
		MODULE		0.8									
	A		7mm										
GEAR	В		4mm										
	С		43.8mm										
	D		8mm	10.5mm	9mm	10mm	36.4mm	36.8mm	29mm	36.5mm	15.8mm	35.3mm	
	FOCUS DIAMETER		Ф81.6mm										
	APERTURE DIAMETER		Φ70.4mm Φ73.6mm										
WEIGHT(CAP,HOOD DETACHABLE) MODULE A B GEAR C D FOCUS DIAMETER		508g	518g	513g	518g	546g 0 7n 4n 43.8 36.4mm	.8	536g	546g	93.7mm 551g	113.2mm 541g		

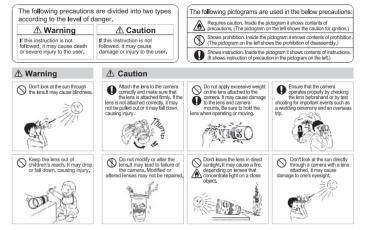
Aler the c



8. Troubleshooting

Symptoms	Cause	Countermeasures
A lens cannot be attached to he 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 rom 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 the camera, and then pull the lens away.
Blurry images	Incorrect focusing.Camera shake, or insufficient shutter speed.	Turn the focusing ring while checking the subject with the indicator in the camera or checking visually to set the focus until the subject is clear, and then press the shutter. After selecting a shutter speed of 1/125 sec or faster, steady the camera and take a photograph.
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 oo bright.	The exposure is incorrect.	Set the aperture adjustment ring of the lens corre
The camera flash is not synchronized to the camera.	With a non-CPU lens, the camera flash may not be geared to some cameras.	Refer to the camera manual.
here is no camera finder ndication 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.	
The lens can't be attached to other cameras.	This lens is designed for a specific mount type.	Purchase the designated lens mount,
ou want to attach our 2X or .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.

9. Safety Precautions



WARNING!

Do not 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.
- 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.

<u>MEMO</u>