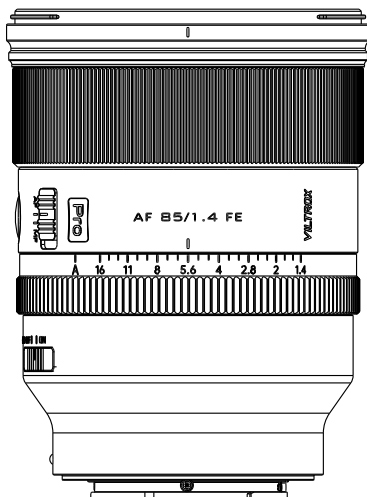


# VILTROX

## AF 85/1.4 FE

E-mount



### Thank you for choosing Viltrox Lens !

Before mounting the lens onto your camera, please read this manual carefully so as to understand and use all the functions of the Lens.

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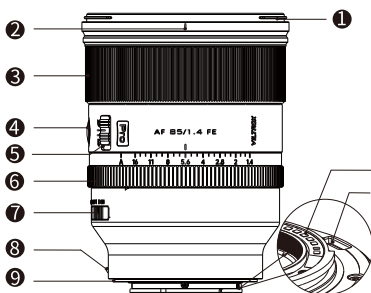


## Function

AF 85/1.4 FE is an auto focus lens suitable for E-mount, with 15 elements in 11 groups, the focus distance is about 0.79m -  $\infty$ , and noiseless VCM focus motor can accurately control the moving position and bring accurate and smooth focusing.

- \* 85mm focal length, F 1.4 large aperture
- \* Optical construction of 15 elements in 11 groups, including 3 ED lenses and 9 lenses with high refractive index and 1 Ultra Precision Aspherical Lens
- \* HD Nano multilayer coating with water-resistant and antifouling coating
- \* Electronic aperture, internal focus, constant lens length
- \* Noiseless VCM focus motor
- \* Precision metal structure
- \* Dust-proof and moisture-proof

## Identifying the Parts



- ① Lens hood position
- ② Lens hood index
- ③ Focusing ring
- ④ Custom Button Fn
- ⑤ Focusing mode switch (MF/AF)
- ⑥ Aperture ring
- ⑦ CLICK switch
- ⑧ Lens mounting index
- ⑨ Rubber seal
- ⑩ Electronic contacts
- ⑪ USB upgrade port

## Attaching and Detaching the Lens

### ● To attach the lens

Align the white index on the lens barrel with the white index on the camera, then insert the lens into camera mount and rotate it clockwise until it locks.

(For further details of attaching and detaching lens, please kindly refer to the User Manual of the camera.)

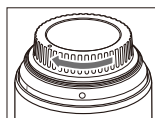
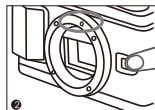
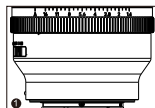
### ● To detach the lens

While holding down the lens release button on the camera, rotate the lens counterclockwise until it stops, then detach the lens.

Please place the back of the lens upward to avoid scratches on the lens surface and the electronic contacts.

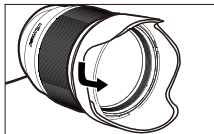
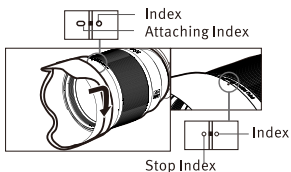
### ● Lens cap

When lens is detached, please cover it with a dust cap. Align the mounting index on the dust cap with the mounting index on the lens, then rotate the cap clockwise until it stops. And rotate it counterclockwise when removing the cap.



## Lens Hood

Lens hood is used to reduce flare or scattering light of ghost and avoid rain, snow and dust sticking to the front of the lens.



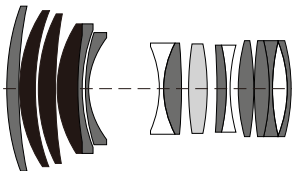
### ● Attaching the Lens Hood

Align the attaching index on the lens hood with the index on the lens, then insert the lens hood into the lens mount and rotate it clockwise until it clicks and now the stop index on the lens hood should match the index on the lens.

### ● Detaching the Lens Hood

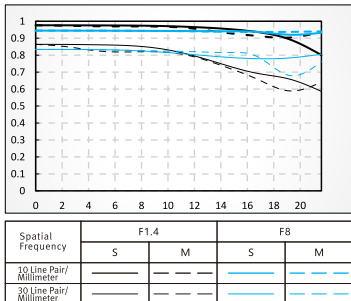
Rotate the lens hood counterclockwise until the attaching index is aligned with the index on the lens, then remove the lens hood. The lens hood can be attached or stored in the opposite direction.

## Lens Construction Diagram



- ED low-dispersion lenses
- Lens with high refractive index
- Ultra Precision Aspherical Lens

## MTF Graph (AF 85/1.4 FE E-Mount)



## ⚠ Safety Notes

- \* Do not look at the sun or bright source through the lens or camera, otherwise the vision will be impaired.
- \* Do not place the lens in the sun, regardless of whether it is mounted on the camera, otherwise the lens may fuse and cause a fire.
- \* Do not place the lens in a child-sensitive area, otherwise it risks accident or injury.
- \* Please do not disassemble the internal parts of the product yourself, which may cause damage.

## Using Tips

- \* When attaching the lens, be careful not to let it be hit by a mechanical impact.
- \* When stored, please make sure to put the lens cap on the lens.
- \* Please do not store the lens in a very humid place for fear of mildew.
- \* Although this lens is dust-proof and moisture-proof, it is not completely waterproof. Special care must be taken when using it in rain or near water. If the internal parts, lens and electronic parts are damaged by water, it may not be repairable.
- \* Temperature shock may cause fog or water droplets on the lens surface, so while going into a warm indoor environment in the cold weather, it would better place the lens in an airtight plastic bag or an oven until the lens temperature gets close to the room temperature. Please use the same method when taking the lens from a warm environment to a cold one.

## 🧼 Cleaning

- \* Please don't touch the contacts on the lens with your hand. If the lens gets dirty, blow off the dust with a lens-nosed tiger and rub slightly with a clean, soft lens cloth (cleaning cloth).
- \* Please do not use any organic solvent, such as dilute or gasoline to clean the lens.

## 📋 Specification

Item	AF 85/1.4 FE
Lens Mount	E-mount
Sensor Format	Full frame
Lens Elements	15/11
Focal Length	f=85mm
Viewing Angle	28°
Aperture	F1.4-F16
Number of Aperture Blades	11
Shooting Distance	0.79m-∞
Focus Mechanism	Internal focusing system
Focus Motor	VCM
Focus Mode	MF, AF
Max. magnification	0.13X
Lens Size ( Diameter/Length ) <small>(Diameter x length)(Distance from lens mount flange to the end of lens)</small>	Φ84.5mmx108.5mm
Weight <small>(Excluding lens cap and lens hood)</small>	≈ 800g
Filter Size	Φ77mm