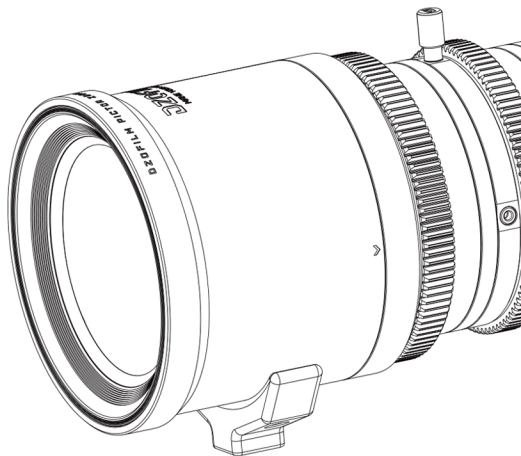


PICTOR ZOOM LENS

USER'S MANUAL



Introduction

Thank you for purchasing this product!

Pictor series is a set of high-performance S35 zoom lenses produced by DZOFILM. Good representation of details, vivid colors and smooth transition of image as well as can be characterized in this series of lenses. They are suitable for different kinds of projects, documentary, MV, commercials, films, live broadcast etc, bringing audience with pure and vivid image texture and natural transition of focus shifting.

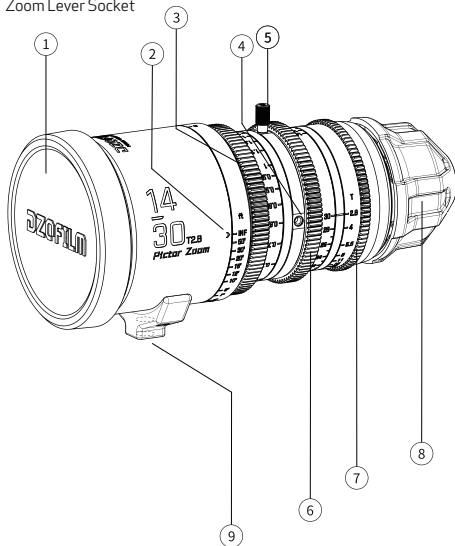
Safety Notes

- Please do not watch the sun or bright light source through the lens, otherwise it will cause visually disabled.
- Never use organic solvents such as paint thinner or benzene to clean the lens.
- Attach the front and rear caps when the lens is not in use.
- Store the lens and filter in cool, dry locations to prevent mold and rust. Do not store in direct sunlight or with naphtha or camphor moth balls.
- Please keep the lens dry and wipe the water droplets off if there are water droplets on the glass surface.
- Leaving the lens near heater or in other extremely hot locations could cause damage or warping.
- Use a blower to remove dust and lint from the glass surfaces of the lens or filter. To remove smudges and fingerprints, apply a small amount of lens cleaner to a soft, clean cotton cloth or lens-cleaning tissue and clean from the center outwards using a circular motion. Do not leave smears or touch the glass with your finger.

Lens Parts

- | | |
|--|--|
| ① Front cap | ⑥ Zoom Ring |
| ② Lens Mark | ⑦ Aperture Ring |
| ③ Focusing Ring | ⑧ Rear Cap |
| ④ Holes for Zoom Lever Socket *4
(M3, 4mm deep) | ⑨ Holes for Supporting Base *2
(M3, 3mm deep) |

- ⑤ Zoom Lever Socket

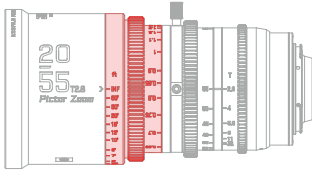


Lens Control

Focus Control

Rotate the focus ring to increase or decrease the focus distance.

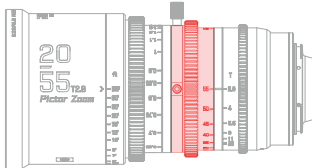
Focusing Ring



Zoom Control

Rotate the zoom ring to zoom out, increasing the area visible in the frame or zoom in on the subject so that it fills a larger area in the frame.

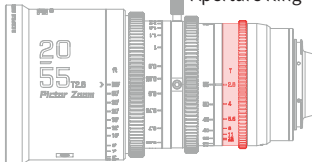
Zoom Ring



Aperture Control

Rotate the aperture ring to stop aperture down, raising the T-stop and narrowing the aperture, or lower the T-stop to widen the aperture.

Aperture Ring



Flange Back Adjustment

Every Pictor lens will process flange back adjustment on standard. But to the tolerance of different cameras, to achieve the best performance of this product and to match the cameras, please adjust flange back of the product.

1.Preparation

Step One : Ready your subject. You can use a "Star Chart", or other high-resolution black-and-white objects;

Note : You can download and print the chart on DZOFILM website-Download-Star Chart for Adjusting Back Flange ([Click to jump to the website](#))

Step Two : Attach the lens to the camera;

Step Three : Select the maximum aperture (wide open);

Step Four : Set the object 1.5m away from the camera sensor plane, and adjust it to the center of the whole image.

2.Flange Back Adjustment

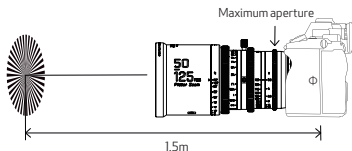
Step One : Rotate the zoom ring to the longest focal length, and rotate the focus ring until the image to its clearest, mark down the focusing distance S_1 ;

Step Two : Rotate the zoom ring to the widest focal length and rotate the focus ring until the image to its clearest, mark down the focusing distance S_2 ;

Step Three : Compare the difference between S_2 and S_1 . If $S_2 < S_1$, then need to add shims; otherwise decrease the shims,

Note : The shim adjustment is evaluated on the angle between S_2 and S_1 . If the angle is bigger, then need to change more shims and vice versa.

Step Four : Repeat step1-2 until $S_2 = S_1$. Then it means the lens in under parfocal.



Set the object 1.5m away from the camera sensor plane, and adjust it to the center of the whole image.

Take Pictor Zoom 50-125mm as an example :

Rotate the focal length to 125mm, and focus till the image is at its sharpest, the focusing distance mark is 1.5m (S1). And then rotate the zoom ring to 50mm, re-focus to the image at its sharpest, current focusing distance mark is 1.4m (S2). $S2 < S1$. According to the sheet below, add 0.12mm shims on the lens mount and double check. At this time, both 50mm and 125mm focus at the closest under 1.5 focus mark. That means this lens is under parfocal.

20-55mm shim adjustment reference

55mm focusing mark S1 (m)	20mm focusing mark S2 (m)	Shim adjustment (mm)
1.5	0.9	+0.36
	1	+0.27
	1.1	+0.19
	1.2	+0.14
	1.3	+0.1
	1.4	+0.05
	1.5	0
	1.7	-0.04
	2	-0.1
	2.5	-0.16
	3	-0.18
	3.5	-0.2
	4.5	-0.24
	6	-0.27
	10	-0.3

50-125mm shim adjustment reference

125mm focusing mark S1 (m)	50mm focusing mark S2 (m)	Shim adjustment (mm)
1.5	1.3	+0.33
	1.35	+0.2
	1.4	+0.12
	1.5	0
	1.6	-0.1
	1.7	-0.25
	1.8	-0.37

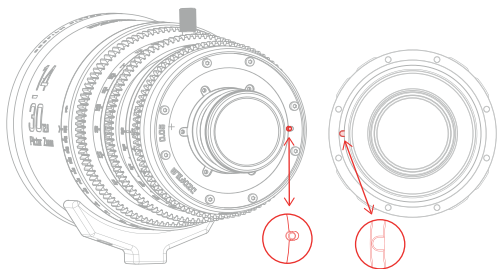
14-30mm shim adjustment reference

30mm focusing mark S1 (m)	14mm focusing mark S2 (m)	Shim adjustment (mm)
1.1	0.65	+0.25
	0.7	+0.2
	0.75	+0.14
	0.8	+0.12
	0.85	+0.09
	0.9	+0.07
	0.95	+0.04
	1	+0.02
	1.1	0
	1.2	-0.02
	1.3	-0.04
	1.4	-0.06
	1.5	-0.08
	1.7	-0.11
	2	-0.14
	2.5	-0.16
	3.5	-0.18
	4.5	-0.2
	6	-0.22
	10	-0.24

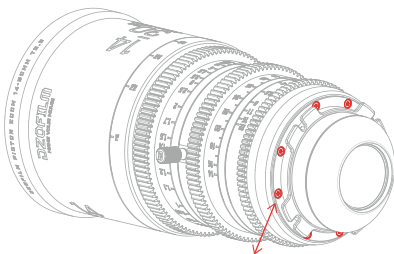
Note: Shim adjustment: "+" means adding shims, and "-" decreasing shims.

PL Mount Assembly Instruction

Align the slot on PL mount to the pin on the rear of lens. Then lay the PL mount flat on the lens rear and slightly rotate the mount. If the mount cannot move, that means the mount sits in right place. Tighten the 8pcs of M2*5 screws symmetrically on by one to keep the balance of lens mount.



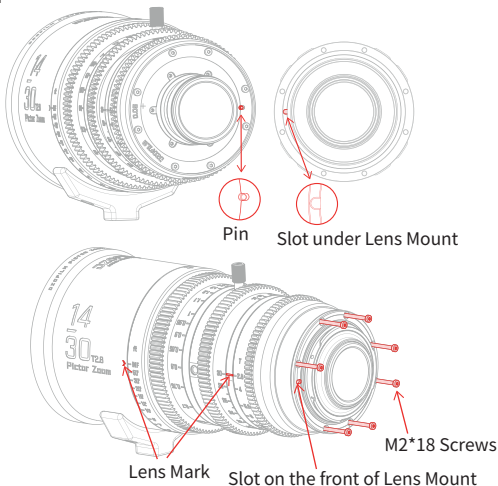
Pin Slot under Lens Mount



M2*5 Screws

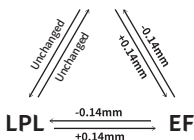
EF Mount Assembly Instruction

Align the slot on EF mount to the pin on the rear of lens. Then lay the PL mount flat on the lens rear and slightly rotate the mount. If the mount cannot move, that means the mount sits in right place. Tighten the 7pcs of M2*18 screws symmetrically on by one to keep the balance of lens mount.



Notice: After changing to EF mount, the rear element will extrude from the lens. Please do not place the lens on the desk with rear part upside down, in case of causing damage to lens surface.

After changing mounts, adjusting shim thickness is needed to ensure the accuracy of focusing. Please refer to following chart about shim adjustment. Focusing marks can be correct again after shim adjustment.



Specification

Specification			
Focal Length	20-55mm	50-125mm	14-30mm
Mount	PL/EF		
Aperture	T2.8-22		
Image Circle	31.5mm (S35)		
Close Focus (Metric/ Imperial)	0.6m/2ft	0.8m/2ft8in	0.6m/2ft
Zoom Ratio	2.75X	2.5X	2.14X
Mag. Ratio (Close Focus)	20mm:0.0477 55mm:0.125	50mm:0.074 125mm:0.184	14mm:0.037 30mm:0.073
Flange Distance	52mm (PL) /44mm (EF)		
Iris Control	65°	72°	61°
Focus Control	270°		
Zoom Control	100°		
Front Dia. (Metric/ Imperial)	95mm/3.74"		
Filter Size	M86*0.75		
Length (Metric/ Imperial)	164mm (PL) 6.46" / 171.9mm(EF)6.77"	175mm (PL) 6.89" / 182.9mm(EF)7.20"	173mm (PL) 6.81" / 181mm(EF)7.13"
Iris Blade	16		
Weight	≈1520g	≈1700g	≈1880g

After-sales Service

Repairs : Return the product to the point of purchase for repairs. Please note that we reserve the right to refuse service in the event of damage so severe that there is little hope of function being restored, whether said damage is caused by physical shocks, exposure to or immersion in sand, mud, or water or the like.

Warranty service: Should the product malfunction in the course of normal use as set forth in the user's manual and accompanying documentation, it may be returned to the point of purchase for repairs within warranty period. The owner is responsible for all shipping costs. The warranty period varies with the country or region of purchase. Stored dated receipts or other proof of purchase in a safe place, as it will be required for repairs made under warranty.

Service Outside the Warranty Period: Request for service will normally be accepted within a period of roughly 5 years following the end of production, during which time spares will be kept on hand, although owners may be offered an equivalent product during this period in the event that spares are not available. Compatibility with consumables and accessories for the original product is not guaranteed. To prevent waste, repairs or replacement may be made using refurbished parts or products, and DZOFILM may collect returned parts or products for later use. When returning a product for repair, please let us know if you need the original parts.

Privacy: DZOFILM obeys all applicable laws and regulations concerning the handling of names, addresses, phone numbers, and other personal information provided by users.

The Name and Content of Hazardous Substances

Part Name	Hazardous Substances					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
Lens Shell	○	○	○	○	○	○
Inner Mechanics	×	○	○	○	○	○
Optics	○	○	○	○	○	○
Other Parts	○	○	○	○	○	○

This table is formulated in accordance of SJ/T11364.

○: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the GB/T26572 standard.

×: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts may be above the relevant threshold of the GB/T26572 standard.

The "X" in the above table indicates that there are one or more exemptions are applied in the parts stated in RoHS (2011/65/EU).