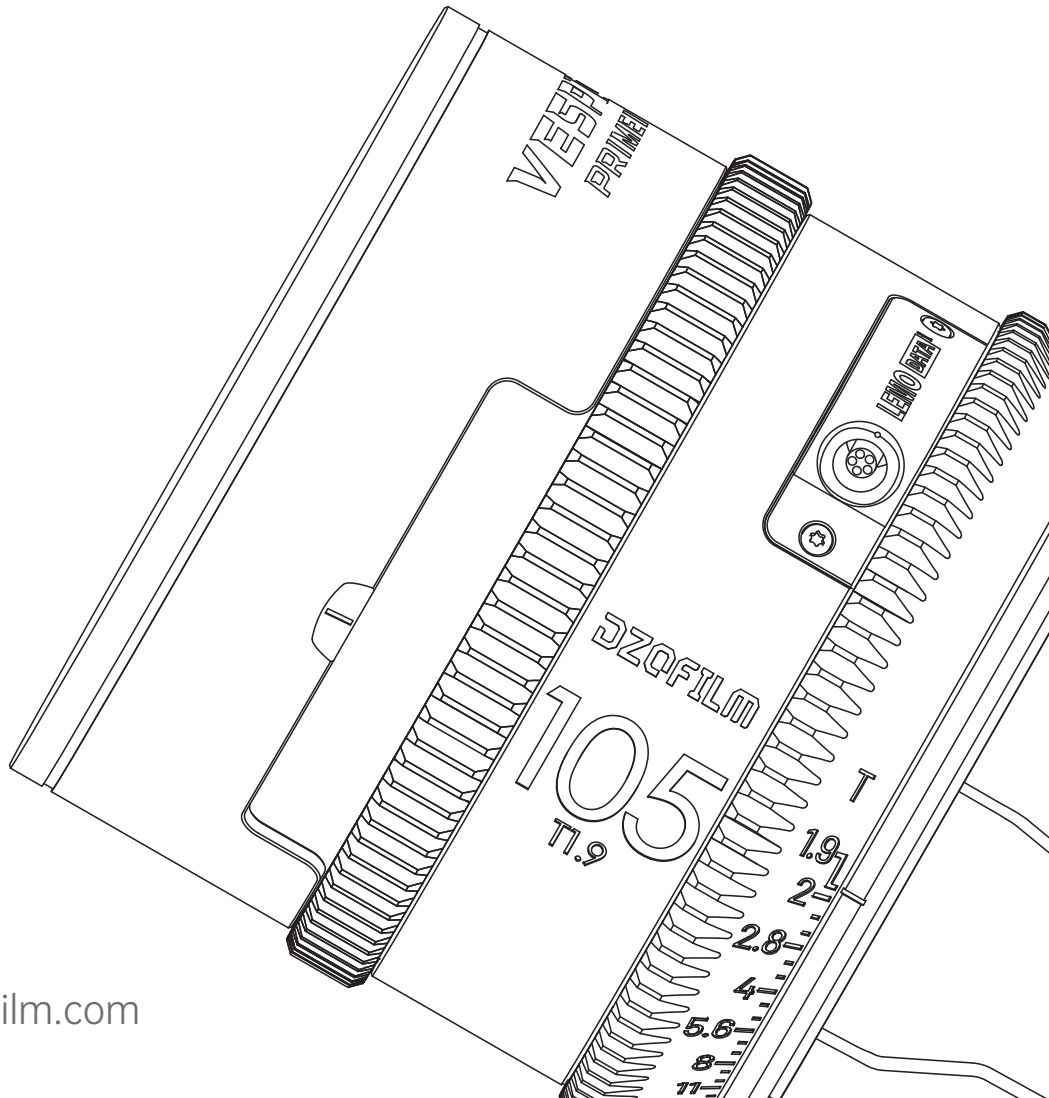
DZOFILM
MAKE YOUR MOVIE

VESPID PRIME II LENS
USER'S MANUAL

玄蜂2定焦镜头使用说明书



电影镜头
CINE LENS
www.dzofilm.com

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Note

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Users can read the table of content(TOC) to have an overview of the Arles Product Manual. Please click on the title or link to jump to the TOC.

Search keyword

The Search-keyword Function is available in PDF Document. For example, In WPS Office, Windows users can search keywords with the keyboard shortcut <Ctrl+F> and Mac users can execute the same function with shortcut <Command+F>.

Introduction

Thank you for choosing DZOFILM !

DZOFILM designs and manufactures high-performance full-frame cine lenses built to meet the needs of filmmakers and content creators. Focused on innovation, consistency, and ease of use, our lenses deliver exceptional optical quality and versatility. Whether for feature films, documentaries, commercials, or any other cinematic project, DZOFILM lenses provide sharp, high-resolution imagery and beautiful bokeh, enhancing your video creations with a distinctive cinematic look.

At DZOFILM, we are committed to simplifying the creative process by offering reliable and efficient tools that inspire filmmakers to push the boundaries of their craft. From advanced optical design to sleek and durable construction, our lenses support both seasoned professionals and emerging talents in capturing their artistic vision.

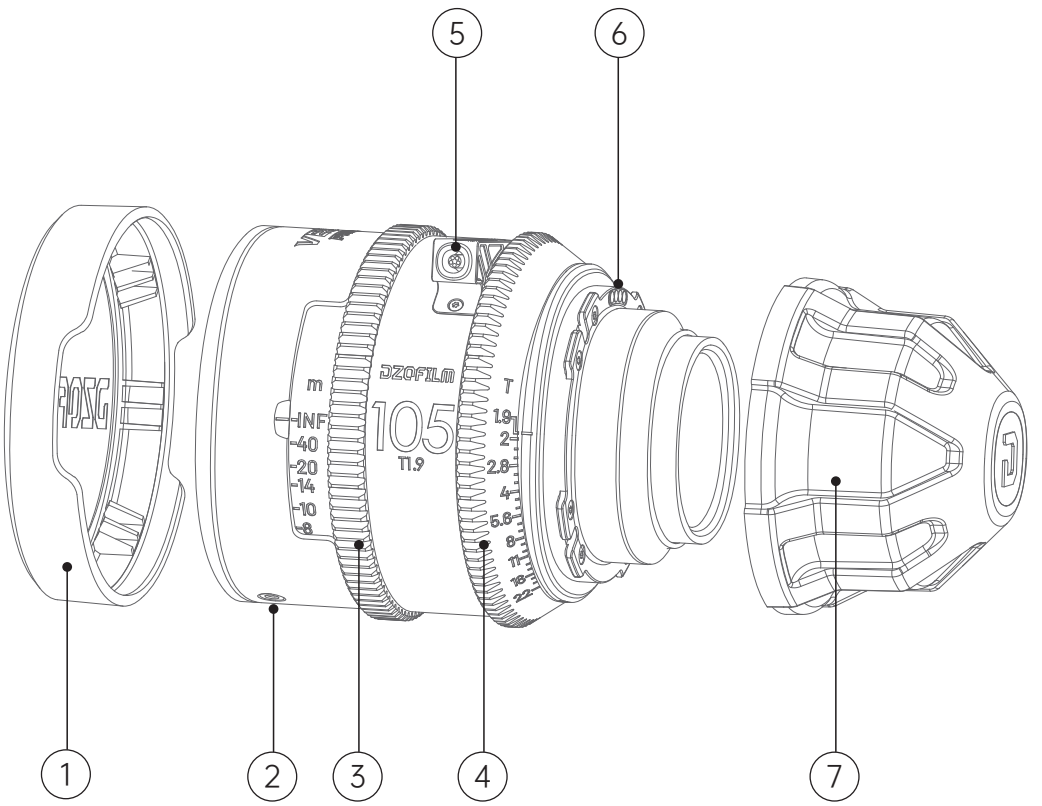
Safety Notes

- Please do not watch the sun or bright light source through the lens or camera, 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.

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Lens Introduction

1. Front Cap
2. 1/4 Mounting Hole
3. Focus Ring
4. Aperture Ring
5. 5 Pin Lemo Connector
6. PL Mount (/i Technology compatible)
7. Rear Cap

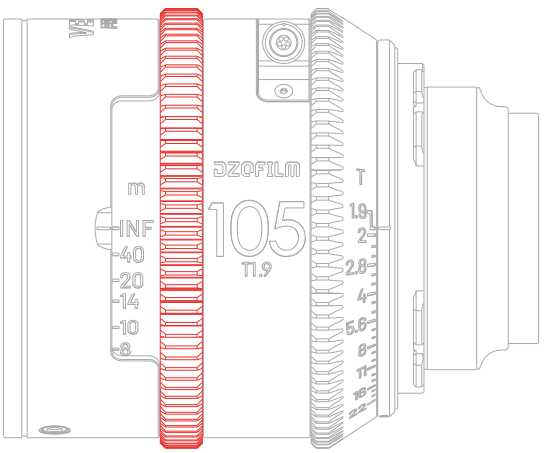


Lens Usage

Focus Ring

Rotate the focus ring to adjust the focus. Turn it clockwise to focus on nearer subjects and counterclockwise to focus on distant objects.

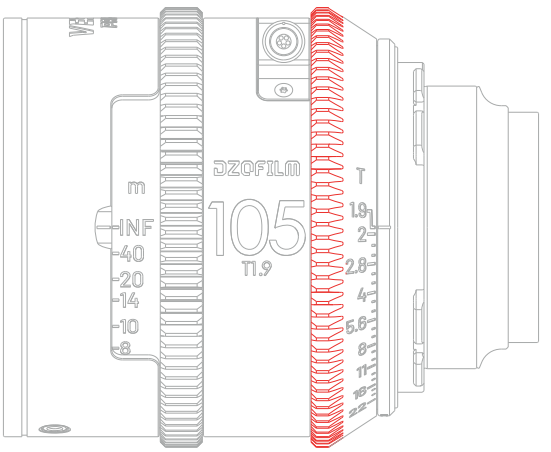
Focus Ring



Aperture Ring

The aperture ring controls the size of the lens aperture, which in turn affects the amount of light entering the camera, as well as the exposure and depth of field of the image.

Aperture Ring



Flange Back Adjustment

Every Vespid Prime Lenses 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.

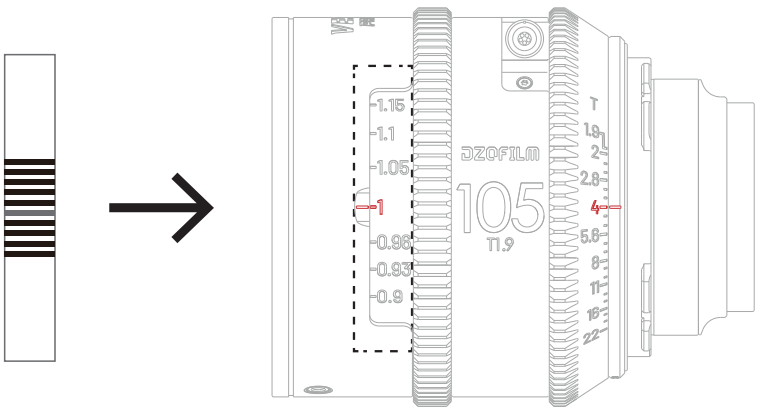
1. Preparation

Step One : Ready your subject and calibration tool. You can use a "Star Chart", or other high-resolution black-and-white objects; download the "Back focus Calibration Tool for Prime Lens" (short for "Calibration Tool") on the official website.

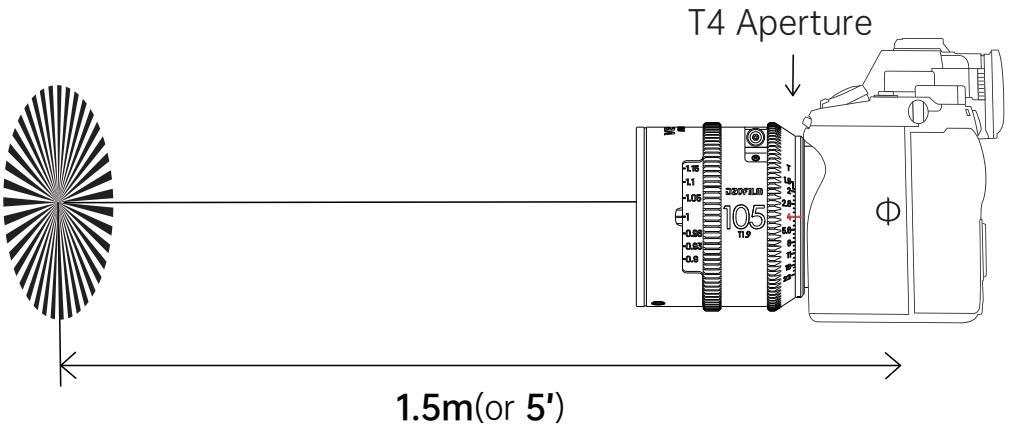
Note : You can download and print the chart on DZOFILM website-Support-Download Center-Tool-Star Chart for Adjusting Back Flange (Click to jump to the website)

Step Two : Attach the lens to the camera and adjust the aperture to **T4**

Step Three : Make the pointer align with the **1.5 m** scale on focusing ring, paste calibration tool on the ring with middle line of the tool aligning the **1.5m** scale and the scale pointer (or choose **5'** focusing scale)



Step Four : Set the object **1.5m**(or **5'**) away from the camera sensor plane, and adjust it to the center of the whole image.



Set the object **1.5m**(or **5'**) away from the camera sensor plane, and adjust it to the center of the whole image.

2. Flange Back Adjustment

lease adjust as the following steps:

Step One : Rotate the focus ring until the image to its clearest. Take the horizontal line in the middle of the calibration tool as the reference and observe the position of the deviating scale pointer to get the number of horizontal lines.

Note: The direction of infinity indicates positive deviation value. The direction of the closest focusing distance indicates negative deviation value. If there are more than **4** horizontal lines, add or subtract the corresponding value.

Example: If the scale pointer points to 3 spaces in the direction of the closest focusing distance, the deviation value is -3. If the scale pointer points to 5 spaces in the direction of infinity, the deviation value is +5. At this situation, the shim value of "+4" needs to be added to the shim value of "+1".

Step Two : According to the deviation value and the reference below, add or subtract the corresponding shim to complete the flange back adjustment.

Vespid Prime 2 Adjustment Reference（mark value : 1.5m/5′）									
focal length	Deviation Value								
	4	+3	+2	+1	0	-1	-2	-3	-4
18mm	-0.013	-0.01	/	/	/	/	/	0.010	0.013
24mm	/	-0.1	-0.07	-0.04	0	0.03	0.06	0.09	/
35mm	/	-0.20	-0.13	-0.07	0	0.05	0.11	0.17	/
50mm	/	-0.18	-0.12	-0.04	0	0.05	0.13	0.19	/
85mm	/	-0.35	-0.23	-0.10	0	0.10	0.22	0.34	/
105mm	/	-0.4	-0.25	-0.11	0	0.11	0.28	0.42	/

Note: Shim adjustment: "+" means adding shims, and "-" decreasing shims.
Data in this sheet might have deviation and just for reference.
Please adjust based on actual situation.

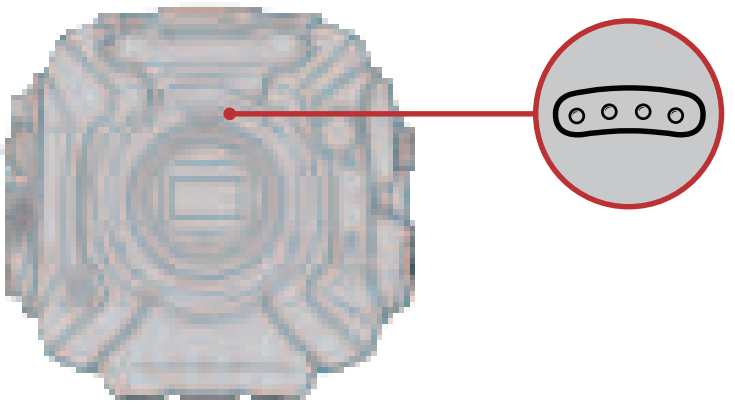
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Specification

Name	Vespid 2					
Colour	Black					
Focal Length	18mm	24mm	35mm	50mm	85mm	105mm
Mount	PL					
Aperture	T1.9-22					
Image Circle	∮ 46.5					
Construction of Optics	15 Elements in 12 Group	14 Elements in 13Group	13 Elements in 9 Group	12 Elements in 9 Group	11 Elements in 8 Group	12 Elements in 8 Group
Close Focus (from sensor plane)	0.25m/0.8ft	0.3m/1ft	0.3m/1ft	0.5m/1.6ft	0.74m/2ft5in	0.9m/3ft
Iris Control	Manual (68°)	Manual (66°)	Manual (66°)	Manual (65°)	Manual (65°)	Manual (65°)
Focus Control	Manual (300°)					
Front Dia	∮ 80mm/3.15"					
Length (from lens front to flange plane)	80mm/3.15"(PL)					
Iris Blade	10					
Filter Size	M77					
Gear Pitch	0.8 Mod					
Material	Aluminium alloy					
Weight(Product)	766g	776g	800g	836g	865g	833g

Meta Data Troubleshooting

Solution 1: Ensure the lens contacts are correctly aligned and oriented with the camera contacts; misalignment may cause metadata read or communication failures.



Solution 2: In the camera menu, confirm the lens mount (lens data / electronic mount) function is enabled; refer to the camera manufacturer's menu guide.

Solution 3: Verify that the camera model is on our supported list. If it is not yet supported, please wait for a future firmware update.

Solution 4: Use the original manufacturer mount. If poor contact is suspected, power off first, then gently clean the contacts ("gold fingers") with a small amount of anhydrous alcohol or a clean soft eraser.

After-sales Service

How to Obtain After-Sales Service

If a product does not function as warranted during the warranty period, you may obtain after-sales service by contacting DZOFILM support team or DZOFILM's authorized dealers.Charges may apply for services not covered by this After-Sales Policy. The After-Sales Policy varies with the country or region of purchase. Please contact DZOFILM for information specific to your location.

Warranty Service

DZOFILM grants a minimum warranty period of one year from the date of purchase for lenses purchased through DZOFILM's official dealers. DZOFILM warrants that each DZOFILM product that you purchase will be free from material and workmanship defects under normal use in accordance with DZOFILM's user manual and accompanying documentation during the warranty period. You may claim warranty service by returning it to the point of purchase. The owner is responsible for all shipping costs. The warranty period varies with the country or region of purchase. Stored proof of purchase in a safe place, as you will need to provide a valid proof-of-purchase for the warranty service. Parts replaced during the warranty service become DZOFILM's property.

Service Outside the Warranty Period

Request for after-sales 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. The specific cost standard is subject to DZOFILM's quotation. Compatibility with consumables and accessories for the original product is not guaranteed. To prevent waste, DZOFILM may collect returned parts or products.

Service Turn Around Time

After we receive the product, the after-sales service will generally be completed within two weeks. This turn around time does not include the time of return shipping. If there are special circumstances, we will notify you in advance.

What This After-Sales Policy Does NOT Cover

This after-sales policy does not cover the following and charges may apply:

× No valid proof-of-purchase of the product;

× Damage caused by unauthorized modification, disassembly, or repair not in accordance with official instructions or manuals;

× Damage caused by improper installation and operation not in accordance with official instructions or manuals;

× Damage caused by the storage environment not in accordance with official instructions or manuals;

× Damage caused by operation in bad weather or environment (i.e. rain, sand/dust storms, humid environment, etc.);

× Damage caused by, any third party products, including those that DZOFILM may provide or integrate into the DZOFILM product at your request;

× Damage caused by any third-party product;

× Damage caused by force majeure;

× Consumable accessories and optional parts that come with this product.

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.

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阅读小贴士

点击跳转

用户可以通过目录了解说明书整体结构，点击标题或链接即可跳转到相应页面。

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PDF电子文档可以使用查找功能快速搜索关键词。例如在WPS PDF文档中，Windows用户使用快捷键Ctrl+F，Mac用户使用Command+F即可快速搜索关键词。

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简介

感谢您选择 DZOFILM!

DZOFILM 设计并制造高性能的全画幅电影镜头，致力于满足电影制作人和内容创作者的需求。我们的镜头以创新性、一致性和易用性为核心，旨在提供卓越的光学质量和多功能性。无论是电影、纪录片、广告还是其他影像项目，DZOFILM 镜头都能呈现清晰、高分辨率的图像，并带来柔美的焦外效果，为您的视频创作增添独特的电影感。

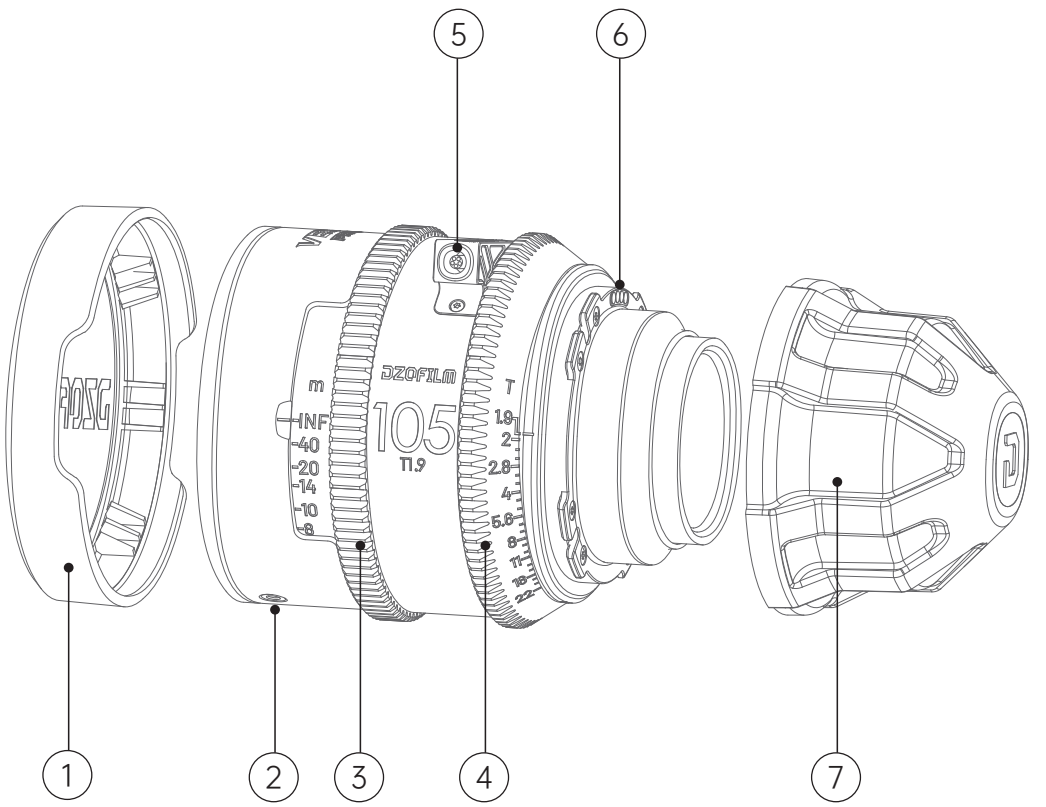
在 DZOFILM，我们致力于简化创作过程，提供可靠且高效的工具，激励电影创作者突破艺术创作的界限。从先进的光学设计到精致耐用的镜头构造，我们的镜头为资深专业人士和新兴人才提供支持，助力他们实现艺术视野。

安全注意事项

- 请勿透过镜头或摄影机观看太阳或明亮的光源，否则会使视力受损；
- 切勿使用涂料稀释剂或苯等有机溶剂清洁镜头；
- 不使用镜头时，请盖上镜头前后盖；
- 为防止发霉，请将镜头和滤镜存放在阴凉、干燥的地方，切不可存放在直射阳光下，也不要与石脑油或樟脑丸放一起；
- 请保持镜头干燥，如受潮或有水滴请擦拭干净后存放；
- 勿将镜头放置在加热器旁或其他极其炎热的地方，可能导致损坏或变形；
- 请使用吹气球去除镜头或滤镜玻璃表面的灰尘，若要去除污点和指纹，可使用一块滴有少许镜头清洁剂的干净软绵布或镜头清洁纸，以圆周运动方式从里向外进行清洁，注意不要留下污渍，也不要用手指触摸玻璃。

镜头介绍

1. 镜头前盖
2. 1/4安装孔
3. 对焦环
4. 光圈环
5. 5 Pin Lemo接口
6. PL卡口（支持cooke i 通讯）
7. 镜头后盖

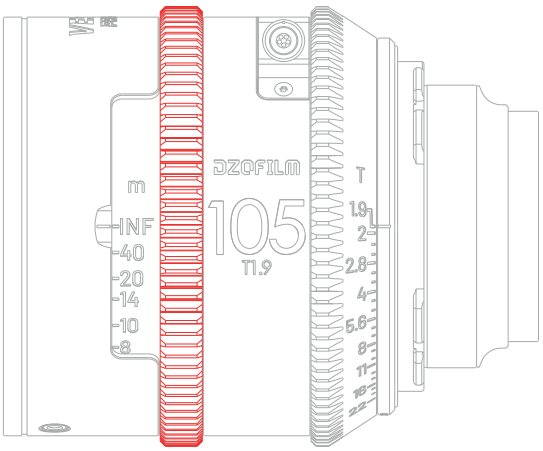


镜头使用

对焦环

旋转对焦环来调节焦点，顺时针旋转将焦点移至近距离，逆时针旋转则将焦点移至远距离。

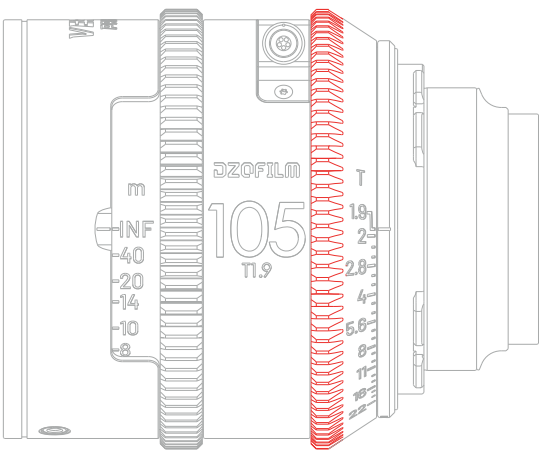
对焦环



光圈环

光圈环用于控制镜头的光圈大小，从而影响进入相机的光线量，并且能够改变图像的曝光量和景深效果。

光圈环



后焦调节

玄蜂系列镜头在出厂前会按照标准调整后焦，但不同摄影机的法兰距在出厂时可能会有一点不同，为了方便与不同的相机匹配，达到最佳成像效果，需要进行后焦调节操作。

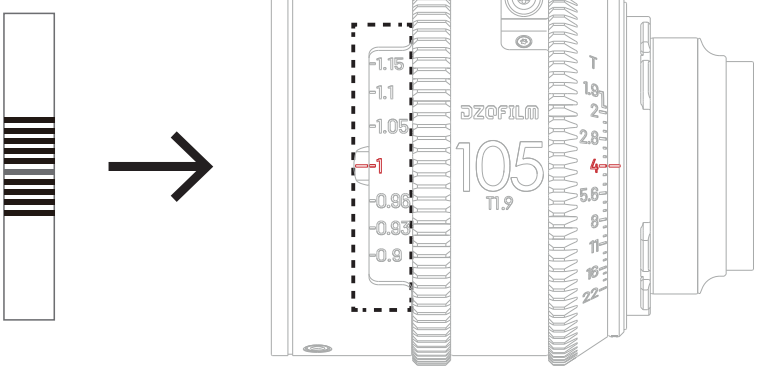
1. 准备工作

步骤一：准备好拍摄对象和校准工具。可使用“星状测试图”，或使用其它黑白相间的、对比度较高的拍摄对象。在官网下载“定焦镜头后焦校准工具”**（点击此处跳转）**

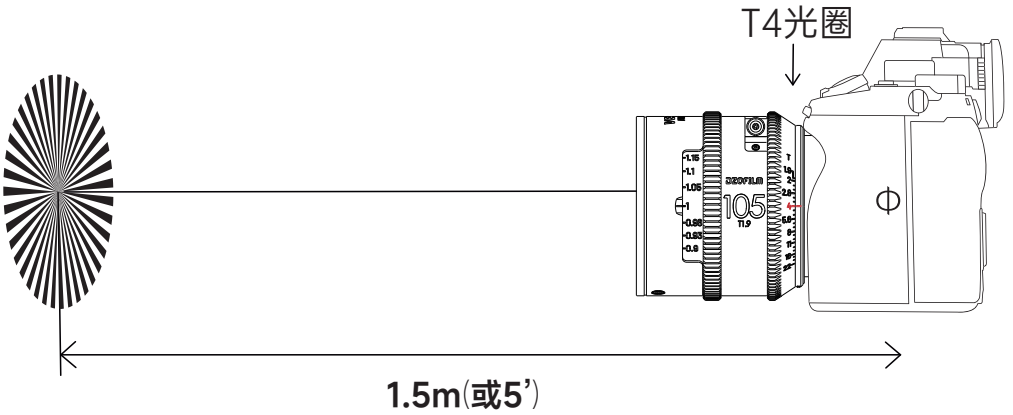
提　示：可前往“DZOFILM 官网-服务与支持-下载中心-工具-后焦调整镜头-后焦调整星图”处下载 **（点击此处跳转）**

步骤二：将镜头安装到相机或摄影机上并调整光圈为**T4**。

步骤三：将“定焦镜头后焦校准工具”贴在**1.5m**对焦刻度处(或选择 **5’** 的对焦刻度线)，刻度指针与“定焦镜头后焦校准工具”中间横线平齐；



步骤四：将拍摄对象放置在距离相机成像面约**1.5m（或5’）**处，并调整其位置在画面中心。



将拍摄对象在距离相机成像画面“Φ”标记处约**1.5m（或5’）**放置，
将拍摄对象置于画面中心。

2. 调节后焦

调节过程，请执行以下步骤

步骤一： 旋转对焦环直至画面达到**最清晰状态**，以“定焦镜头后焦校准工具”中间的横线为基准，观察此时刻度指针的位置，并观察刻度指针偏移的横线条数：

注意： 若偏向**无限远**方向，则代表刻度偏移值为**正数**；
若偏向**最近对焦距离**方向，则代表刻度偏移值为**负数**；
若超过**4**格横线，则用对应数值加减即可。

举例： 若刻度指针指向的刻度线朝最近对焦距离方向偏移3格，则刻度偏移值为-3。
若刻度指针指向的刻度线朝无限远距离方向偏移5格，则刻度偏移值为+5，此时需把“+4”的垫片值加上“+1”的垫片值即可。

步骤二： 根据刻度偏移值，参考下表调整相应的垫片，即可完成后焦调整。

玄蜂 2系列后焦调整表（基准值1.5m/5′）									
焦段	校准工具刻度偏移量								
	4	+3	+2	+1	0	-1	-2	-3	-4
18mm	-0.013	-0.01	/	/	/	/	/	0.010	0.013
24mm	/	-0.1	-0.07	-0.04	0	0.03	0.06	0.09	/
35mm	/	-0.20	-0.13	-0.07	0	0.05	0.11	0.17	/
50mm	/	-0.18	-0.12	-0.04	0	0.05	0.13	0.19	/
85mm	/	-0.35	-0.23	-0.10	0	0.10	0.22	0.34	/
105mm	/	-0.4	-0.25	-0.11	0	0.11	0.28	0.42	/

提示：后焦垫片调整值，“+”代表要增加垫片厚度，“-”代表减少垫片
本表格可能含有较小误差，仅供参考，请以实际调整情况为准。

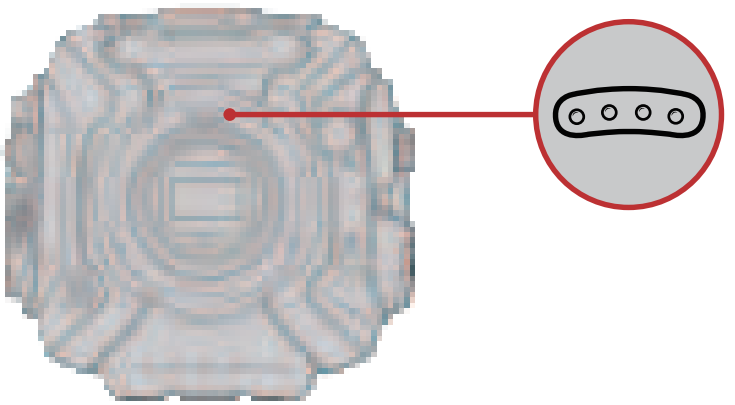
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技术规格

名称	玄蜂 2					
颜色	黑色					
焦距	18mm	24mm	35mm	50mm	85mm	105mm
卡口	PL卡口					
光圈	T1.9-22					
最大像面	∮46.5					
镜片组	15片12组	14片13组	13片9组	12片9组	11片8组	12片8组
最近对焦距离 （从传感器平面）	0.25m/0.8ft	0.3m/1ft	0.3m/1ft	0.5m/1.6ft	0.74m/2ft5in	0.9m/3ft
光圈控制	手动（68°）	手动（66°）	手动（66°）	手动（65°）	手动（65°）	手动（65°）
对焦控制	手动（300°）					
前端直径	∮80mm/3.15"					
长度 （从镜头前端面至法兰面）	80mm/3.15"(PL)					
叶片数量	10					
滤镜尺寸	M77					
齿轮齿距	模数0.8					
材质	铝合金					
重量	766g	776g	800g	836g	865g	833g

元数据读取异常排查

方案一： 确保镜头触点与摄影机触点方向一致并正确对齐，否则可能导致数据无法正常读取或通信异常。



方案二： 检查摄影机菜单中卡口（镜头数据/电子卡口）功能是否已启用，具体请参考各摄影机厂商的菜单设置。

方案三： 确认摄影机型号是否已在我们的适配列表中；若尚未适配，请等待后续固件升级。

方案四： 确保使用厂家原装卡口。如怀疑接触不良，可在断电情况下用少量无水酒精或干净软橡皮轻擦金手指后再试。

售后服务

如何获得售后服务：在保修期间，若产品不能实现所保证的功能，请联系DZOFILM以获取相应的售后服务。保修以外的服务可能会收取费用。售后服务政策的内容可能因地而异，如欲了解本地信息，请联系DZOFILM。

保修服务：凡是从我们授权的代理处购买的产品，自产品购买之日起，我们提供一年的保修服务。若产品是在按照用户手册正常使用期间发生故障，您可在保修期内将其送回至销售点进行保修，除运费、保险费等（运）杂费用外，保修服务免费提供。保修期根据出售国或销售地的不同而异；由于在保修期内进行保修时将需要使用购买凭证，请将注明日期的购买凭证存放在稳妥的地方。保修中所更换下来的配件归DZOFILM所有。

保修期外的服务：本产品的配件可在停产后大约持有5年，用户一般可在此期间请求维修、更换服务，具体费用标准以本地信息为准。在配件不可用的情况下，可能为用户提供同等产品，此时与原产品耗材和配件的兼容性不予保证。为杜绝浪费，DZOFILM可能会收集返修部件或产品。

售后服务周期：我们收到产品后，一般情况下会在两周内完成售后服务，这不包括来回运输的时间。如有特殊情况，我们会提前通知您。

非售后政策保障范围：本政策不涵盖以下情况，但可实行收费维修：

× 无购买凭证；
× 发生非官方说明书指导的私自改装、拆解，以及自行维修等行为而造成的损坏；
× 未按说明书指导的不正确安装和操作所造成的损坏；
× 未按说明书指导的存放环境导致的产品损坏；
× 在恶劣的环境下使用导致的损坏，如雨天、沙尘、潮湿环境等；
× 与非DZOFILM认证的第三方部件同时使用时发生可靠性及兼容性问题导致的损坏；
× 任何第三方产品所导致的故障或损坏；
× 因不可抗力发生的损坏；
× 随本产品之附件消耗品及选购件等。

个人联系信息的使用：DZOFILM 遵循所有关于处理用户所提供的姓名、地址、电话号码以及其他个人信息的现行法律和法规。

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
镜头外壳部件	○	○	○	○	/	/
机械部件	○	○	○	○	/	/
光学部件	○	○	○	○	/	/
其它部件	○	○	○	○	○	○

本表格依据SJ/T11364的规定编制。

○:表示该有害物质在该部件所有均质材料中的含量均在GB/T26572规定的限量要求以下。

×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572规定的限量要求。

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