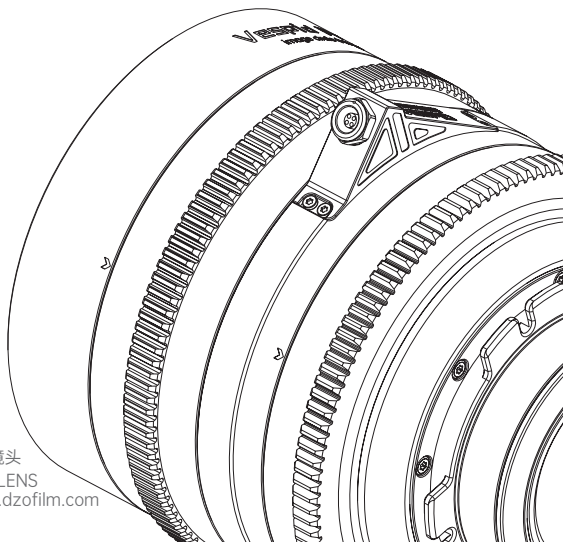


**DZOFILM**  
MAKE YOUR MOVIE

# VESPID CYBER LENS

## USER'S MANUAL

玄蜂 Cyber 镜头使用说明书



电影镜头  
CINE LENS  
[www.dzofilm.com](http://www.dzofilm.com)

# Contents

Introduction .....	1
Safety Notes.....	1
Lens Parts .....	2
Lens Control.....	3
Flange Back Adjustment.....	4
1. Preparation.....	4
2. Flange Back Adjustment .....	5
Data Interface Usage .....	6
Specification.....	7
After-sales Service .....	8
The Name and Content of Hazardous Substances.....	10

# Introduction

Thank you for purchasing this product!

Vespid Cyber (Vespid series) is DZOFILM's high-performance full frame prime lens. It allows you to reproduce the details in filming, with vivid colors and natural transition. Unique Data Interface function can output the focusing and aperture data. The lens allows auto focus with the third-party focusing system, making your shooting faster and more convenient.

( Currently for only DJI RS3 PRO autofocus system. More application scenarios will be supported in the future.)

## 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.

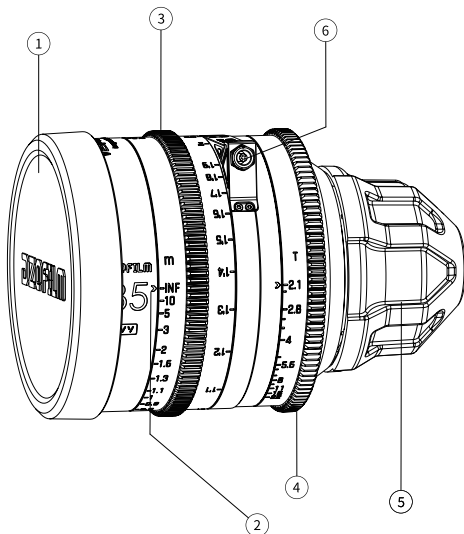
Leaving the lens near heater or in other extremely hot locations could

- 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
- ② Lens Mark
- ③ Focusing Ring
- ④ Aperture Ring
- ⑤ Rear Cap
- ⑥ Data interface

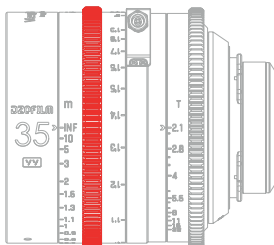




# Lens Control

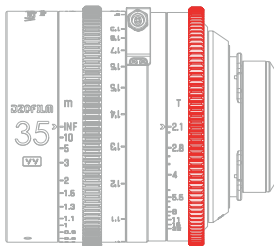
## Focus Control

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



## 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.



# Flange Back Adjustment

Every Vespider Cyber digital lens will process flange back adjustment on standard before shipping. The flange distance of different cameras may be slightly different, resulting in inaccurate scales. To achieve the best performance and match different cameras, flange back adjustment is needed.

## 1.Preparation

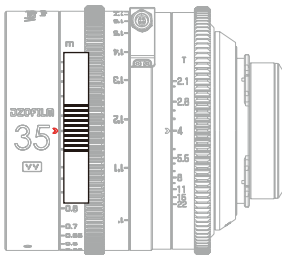
Take Vespider Cyber 35mm as an example:

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

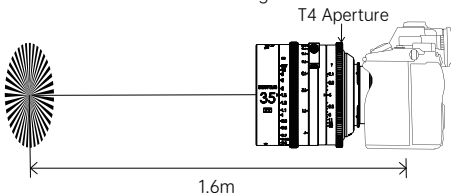
Note : You can download and print the chart on **DZOFILM website for Adjusting Back Flange** ([Click to jump to the website](#))

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

**Step Three** : Make the pointer align with the **1.6m** scale on focusing ring, paste **calibration tool** on the ring with middle line of the tool aligning the **1.6m** scale and the scale pointer (or choose other focusing distance and corresponding scale).



**Step Four :** Set the object 1.6m away from the camera sensor plane, and adjust it to the center of the whole image.



Set the object **1.6m** away from the camera sensor plane, and adjust it to the center of the whole image.

## 2.Flange Back Adjustment

Please 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 five horizontal lines, add or subtract the corresponding value.

Example: If the scale pointer points to 5 spaces in the direction of the closest focusing distance, the deviation value is -5.

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.

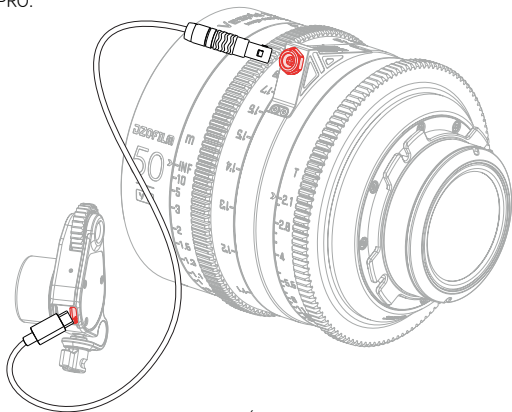
Vespid Cyber Adjustment Reference											
direction		direction of the closest focusing distance						direction of infinity			
deviation value	focal length	-5	-4	-3	-2	-1	0	+1	+2	+3	+4
Shim adjustment	35mm	-0.16	-0.13	-0.1	-0.07	-0.04	0	+0.03	+0.05	+0.07	+0.12
	50mm	-0.18	-0.15	-0.12	-0.08	-0.05	0	+0.04	+0.08	+0.12	+0.14
	75mm	-0.28	-0.22	-0.16	-0.11	-0.06	0	+0.06	+0.11	+0.17	+0.22

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

## Data Interface Usage

Used with the third-party auto focusing system, Vespid Cyber lens can quickly connect the **new system without calibration**.

Instructions: Take DJI RS3 PRO autofocus system as an example. The cable of the lens should connect to any interface of the focus motor of DJI RS3 PRO.



# Specification

Specification			
Focal Length	35mm	50mm	75mm
Mount	PL/EF		
Aperture	T2.1-T22		
Image Circle	Φ46.5mm (VV/FF)		
Close Focus (Metric/Imperial)	0.3m/1ft	0.46m/1.6ft	0.6m/2ft
Flange Distance	PL=52mm, EF=44mm		
Iris Control	Manual, max 63°	Manual, max 58°	Manual, max 68°
Focus Control	Manual, max Z70°		
Front Dia (Metric/Imperial)	Φ95mm/3.74"		
Filter Size	M86		
Length (Metric/Imperial)	97mm		
Iris Blade	16		
Weight	≈1150g	≈1000g	≈1150g

# 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 dated receipts or other proof of purchase in a safe place, as you will need to provide a valid proof-of-purchase or receipt 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 or receipt 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.

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



# 目录

简介 .....	1
安全注意事项 .....	1
镜头部件 .....	2
镜头控制 .....	3
后焦调节 .....	4
1.准备工作 .....	4
2.调节后焦 .....	5
数据接口使用 .....	6
技术规格 .....	7
售后服务 .....	8
产品中有害物质的名称及含量 .....	9

## 简介

感谢您购买本系列产品！

玄蜂Cyber（Vespid系列）是DZOFILM旗下的全画幅高性能定焦数字镜头，可以让您在视频创作时还原拍摄细节，色彩通透、过渡均匀自然，独特的数据接口功能可输出镜头的对焦数据与光圈数据，连接第三方对焦系统后可实现免标定自动跟焦，使拍摄更快速便捷。

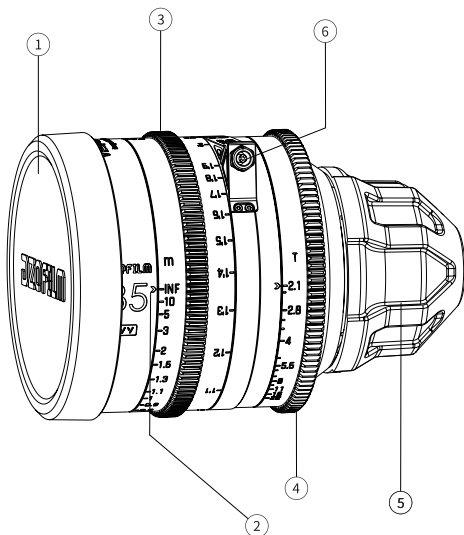
（首批支持DJI RS3 PRO自动对焦系统，后续可扩展应用场景）

## 安全注意事项

- 请勿透过镜头或相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在一起；
- 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；

## 镜头部件

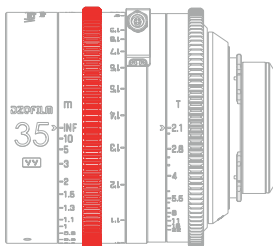
- ① 镜头前盖
- ② 镜头标记
- ③ 对焦环
- ④ 光阑环
- ⑤ 卡口后盖
- ⑥ 数据接口



## 镜头控制

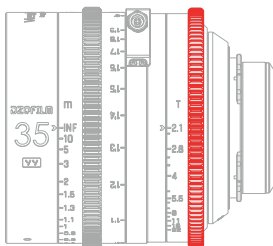
### 对焦控制

旋转对焦环，可增加或减少对焦距离，从而调整画面中的焦点位置。



### 光圈控制

旋转光圈环，可放大或缩小光孔直径，调整画面明暗度以及被摄主体的背景虚化效果。



## 后焦调节

Vespid Cyber数字镜头在出厂前会按照标准调整后焦，但不同相机的法兰距可能会有细微差别，导致刻度不准，为与不同的相机匹配，达到最佳成像效果，需要进行后焦调节校准刻度。

### 1.准备工作

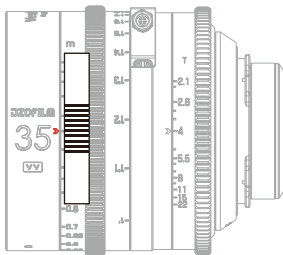
以下操作以Vespid Cyber 35mm 镜头为例

**步骤一：**准备好拍摄对象。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](#))

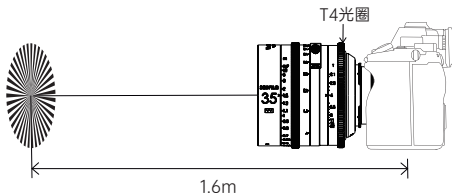
提示：可前往“DZOFILM官网-资料下载-后焦调整星图”处下载([点击此处跳转](#))

**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1.6m对焦刻度处（或选择1.6m距离的其他对焦刻度线），刻度指针与“定焦镜头后焦校准工具”中间横线平齐。



**步骤四：**将拍摄对象放置在离法兰距约1.6米处，并调整其位于在画面中心。



将拍摄对象在距离相机成像画面“Φ”标记处约1.6m放置，  
将拍摄对象位于画面中心。

## 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，观察此刻刻度指针的位置,并观察刻度指针偏移的横线条数。

**注 意：**若偏向无穷远方向，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。

若超过五格横线，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5格，则刻度偏移值为-5。

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。

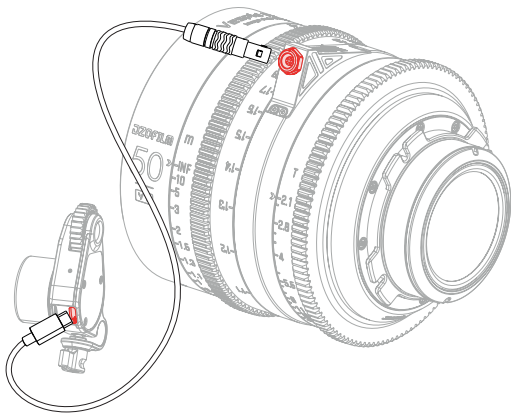
玄蜂 Cyber 后焦调整表											
偏移方向		最近对焦距离方向偏移						无限远方向偏移			
刻度偏移值	焦段	-5	-4	-3	-2	-1	0	+1	+2	+3	+4
垫片调整值	35mm	-0.16	-0.13	-0.1	-0.07	-0.04	0	+0.03	+0.05	+0.07	+0.12
	50mm	-0.18	-0.15	-0.12	-0.08	-0.05	0	+0.04	+0.08	+0.12	+0.14
	75mm	-0.28	-0.22	-0.16	-0.11	-0.06	0	+0.06	+0.11	+0.17	+0.22

**提 示：**后焦垫片调整值中“+”代表增加垫片厚度，“-”代表减少垫片厚度。

## 数据接口的使用

Vespida Cybe镜头搭配第三方自动跟焦系统使用时，可实现免标定，连接后即可快速使用。

**操作说明：**以DJI RS3 PRO自动对焦系统为例，将数字镜头的数据线连接到DJI RS3 PRO的对焦马达任意接口即可。



## 技术规格

技术规格			
焦距	35mm	50mm	75mm
卡口	PL/EF		
光圈	T2.1-T22		
最大像面	Φ46.5mm (VV/FF)		
最近对焦距离 (米制/英制)	0.3m/1ft	0.46m/1.6ft	0.6m/2ft
法兰距	PL=52mm, EF=44mm		
光圈控制	手动(旋转最多63°)	手动(旋转最多58°)	手动(旋转最多68°)
对焦控制	手动(旋转最多270°)		
前端直径 (米制/英制)	Φ95mm/3.74"		
滤镜直径	M86		
长度 (米制/英制)	97mm		
叶片数量	16		
重量	约1150g	约1000g	约1150g



## 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收据或购买凭证，请将注明日期的收据或其他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，可能为用户提供同类产品，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：

- × 无使用收据或购买凭证；
- × 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。

对于表示"×"的情况，属于欧盟RoHS指令(2011/65/EU)的豁免项目。

## **Shenzhen Dongzheng Optical Technology Co., Ltd.**

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 [www.dzofilm.com](http://www.dzofilm.com)

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