

Manual for Focusing device



Before using this machine, please read this manual carefully and keep it properly for future reference

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Precautions

- 1、During the installation of the equipment, please be sure to read the safety instructions carefully and operate strictly in accordance with the installation and usage instructions.
- 2、Before connecting the switching power supply of the equipment to the external power supply, please confirm the power supply voltage value. When in use, please pay attention to the control voltage marking of the equipment, which is DC12V.
- 3、Please use it in the temperature and humidity environment required by the equipment.
- 4、Prevent foreign objects from entering the equipment. Do not splash corrosive liquids onto the equipment to avoid danger.
- 5、During transportation, storage and installation, the product should be protected from heavy pressure, severe vibration and immersion to prevent damage.
- 6、Do not disassemble it without authorization. Relevant work should be carried out by qualified maintenance personnel.
- 7、Please clean the outer shell with a dry soft cloth. If there is stubborn dirt, please wipe it with a neutral cleaner.
- 8、Do not use strong or abrasive cleaners to avoid scratching the shell.

Product services and Disclaimer

The information provided in the manual is only for reference. All along, KIND has been striving to provide correct, complete and appropriate information. However, KIND cannot rule out the possibility that some information in the manual may be incorrect or incomplete. This manual may contain typing errors, information omissions or incorrect information. KIND suggests that you double-check the accuracy of the information in this file. KIND is not responsible for any omissions or errors. For any damage caused by the information provided in this manual or any further information related to this manual or the product, please contact your local office or KIND headquarters

For your safety in use, please do not expose the device to rain or moisture. In case of malfunction, do not disassemble the casing. For after-sales matters, please contact the manufacturer and have a professional engineer carry out the repair.

According to the provisions of the copyright law, without the permission of the copyright owner, the recorded video or audio may not be used for purposes other than personal appreciation. Please note that live performances, shows and exhibitions, even your personal entertainment shooting may be restricted.

1、 Product Overview

The KD-FF08 is a professional focusing system. When used in conjunction with KIND's gimbal and remote control system, it can adjust the camera lens focus, aperture or zoom. The following focus has two working modes, the standard mode and the FREE RUN mode.

Standard mode: In standard mode, the focus tracker will automatically locate the starting and ending points of the zoom when the device is turned on, featuring a preset point function.

FREE RUN mode: In the FREE RUN mode, the follow focus rotates infinitely under the control of the controller. The maximum operating speed of the gear can reach 60rpm, the torque can reach 0.35Nm, and the noise can be reduced to below 25db (at a speed of 60rpm/ hour).

KIND®



- 1.Gear (06/08) 2.Locking screw 3.Control and cascading interfaces
4.Dial switch 5.Locking hole

| Dial switch number | Function | Description |
|--------------------|----------|--------------------------------|
| 1、 2 | ADDRESS | Can configure 4 addresses |
| 3 | FREE RUN | ON represents FREE FUN mode |
| 4 | REVERSE | ON represents reverse rotation |

Dip switch:

| Bit number | Function | Explanation |
|------------|----------|--------------------------------------|
| 1, 2 | ADDRESS | Configurable address, FOCUS and ZOOM |
| 3 | FREE RUN | "on" stands for the FREE RUN mode |
| 4 | REVERSE | "on" stands for reverse rotation |

2、 Specification parameters

Operating temperature: -20 to 55℃

Weight: 170g

Dimensions: 93x62x32mm

Maximum torque: 0.35Nm

Maximum operating speed: 60rpm

Working current static current: 80mA (@12V)

Locked-rotor current: 1.5A (@12V)

Operating voltage: 12V

Noise < 25dB (@60 RPM)

Gear module: 0.8

3、 Instructions for Use

The KD-FF series follow focus has two XS6-4 aviation plugs. The two interfaces are internally identical and have exactly the same functions. One can be used as an input and the other as an output, connected to the next follow focus. The focus tracker is powered by 12V. Control commands are transmitted via 485. Adopt the VISCA protocol. Support the invocation and deletion of ZOOM commands, FOCUS commands, and preset point Settings. Up to 10 preset points are supported. The supported

commands are as follows:

| | | | |
|------------|--------------------|----------------------|--------------------------|
| CAM_Zoom | Stop | 8x 01 04 07 00 FF | |
| | Tele (Standard) | 8x 01 04 07 02 FF | |
| | Wide(Standard) | 8x 01 04 07 03 FF | |
| | Tele(Variable) | 8x 01 04 07 2p FF | p=0 (Low) to 7 (High) |
| | Wide(Variable) | 8x 01 04 07 3p FF | |
| CAM_Focus | Stop | 8x 01 04 08 00 FF | |
| | Far (Standard) | 8x 01 04 08 02 FF | |
| | Near (Standard) | 8x 01 04 08 03 FF | |
| | Far (Variable) | 8x 01 04 08 2p FF | p=0 (Low) to 7 (High) |
| | Near (Variable) | 8x 01 04 08 3p FF | |
| CAM_PRESET | Reset | 8x 01 04 | Pp:Memory |

| | | | |
|--|--------|-------------|--------------------|
| | | 3F 00 pp FF | Number (=0h to 9h) |
| | set | 8x 01 04 | |
| | | 3F 01 pp FF | |
| | Recall | 8x 01 04 | |
| | | 3F 02 pp FF | |

The wiring sequence of the 4-core is as follows

1--12V 2---GND 3---485A 4---485B

Dip switch Settings.

All dip switches need to be restarted to take effect after adjustment.

Address setting

The address of the focus can be set through the No. 1 dip switch. When the No. 1 dip switch is in the OFF position, it indicates that the address of the focus is 1. When the No. 1 dip switch is in the ON position, it indicates that the address of the focus is 2. Usually, a dial set to OFF is sufficient.

4、 ZOOM and FOCUS Settings

Set ZOOM/FOCUS through dip switch No. 2.

When the dip switch No. 2 is at the OFF position, it indicates that the focus is performing the ZOOM operation, as shown in the figure.

ZOOM dial position (Observe dial position No. 2)



When the dip switch No. 2 is at the ON position, it indicates that the FOCUS is executed by the following focus.

FOCUS dial position (Observe dial position 2)



Settings for the focusing device's working mode

The following focus has two working modes, namely the normal mode and the FREE RUN. When the dip switch No. 3 is at the OFF position, it indicates that the following focus is working in the normal mode. This mode can automatically detect the starting and ending points of the camera zoom mechanism after each startup. When the dip switch No. 3 is in the ON position, it indicates that the following focus is working in the FREE RUN mode. This mode. In this mode, the starting and ending points of the camera's zoom mechanism will not be automatically

detected. It is suitable for zoom mechanisms that can rotate infinitely. This mode takes the position at startup as the starting point of the zoom mechanism, so before use, you need to manually adjust the camera's zoom mechanism to the starting point and then restart it. This mode requires setting an endpoint when used for the first time. Set preset point No. 9 as the end point through the controller. If the preset point No. 9 was set before, it needs to be cleared first and then reset.

Forward and reverse rotation Settings

The reverse rotation when clicked can be set through the dip switch No. 4. If you feel that the control direction is opposite to the result obtained when operating ZOOM. The problem can be solved by reversing the No. 4 dip switch.

5、Contact us

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