

# RATTLESNAKE WIRELESS FOLLOW FOCUS CONTROLLER

# MANUAL BOOK



#### Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, Cine Gears Inc. reserves the right to make changes to the products described in this document without notice.

Cine Gears Inc. does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

# ■ FCC Compliance Notice: Radio Frequency Notice

The device has met the FCC 15.247 requirement. In order to comply with the FCC RF exposure requirement, the user must keep 20cm away from the antenna.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Information to the user

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

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The Cinegears Rattlesnake Controller is a wireless lens control kit for driving your lens rings (focus, iris, and zoom.) The Cinegears Rattlesnake Controller has been redesigned to be more ergonomic than ever before. With up to 20 hours of continuous shooting per battery charge, control your lens focus, iris, or zoom with precision from up to 200 meters away with our Cinegears Rattlesnake Controller. Our controllers work with jib, Steadicam, MoVI, and Gimbal stabilizer shots, allowing you to perform with precision without sacrificing the mobility of your cameras or the integrity of the shot. The larger focus wheel feels more fluid, precise, and ergonomic, and the mounting harness allows you to use it like a finger wheel. Also included are two thick magnetic marking discs and a redesigned Lemo cable, with a right-angle connector that helps keep your wiring clean.



FCC ID: 2AM4ZXYAM

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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#### **User Manual**

#### Controller

The controls have been designed for ease of use: They allow for preset memory points, where you can save up to four, as well as two lock points that will cause the controller to vibrate as you approach them. Choose from 16 different speed levels to control the transition speed of the presets, and 4 different damping levels from ultraresponsive to ultra smooth. The controller has an accuracy circuit built into it to ensure the lens stop precisely where you want it to, even after repeated use.

# Battery

The Rattlesnake Wireless Follow Focus Controller runs on one 18650 lithium ion battery. LiCB rechargeable batteries and batteries with a higher capacity are recommended. As the Controller functions as a charger, an external battery charger is not required. To charge the battery, connect the Rattlesnake Controller to a power source via the USB cable provided in the kit. With the vibration setting turned off, one fully charged battery will power the unit for up to 3 days.

# Synchronization

Turn on the remote control power switch and plug in the motor. Once both are on, press and hold the CODE button on the motor for 3 seconds until it turns green. Then, hold (SET) + (POWER) on the controller for 3 seconds. The motor light will stop blinking, and the gear will shudder. This means that the controller and motor have been successfully synchronized. (Note: This process is usually done before leaving the factory.)

# **Setting Presets**

Go to the focus point of your choosing, press and hold (A) button until it flashes, your point is now set. Repeat with (B) (C) and (D) for multiple points. Press the same preset button to exit the preset mode.

### ■ Changing Motor Speed Between Presets

Press (SPEED) on the controller to adjust the motor speed between presets.

#### Automatic Calibration

To calibrate your lens, hold the (SET) + (A) button on the remote controller for 3 seconds. **NOTE:** Before installing the drive onto the lens, please make sure the wireless remote controller and motor are powered on and connected. DO NOT turn the wireless remote control dial, put the drive gear close to the lens ring and tighten the screws. The controller can automatically locate the start and end points of any lens.

#### **User Manual**

#### Manual Calibration

Specifically used with infinity lenses that have no start or end point. Press (SET) + (B) for 3 seconds until you see the (A), (B), (C), (D) lights go on. Then use (C) or (D) button to control the lens. (Hold down the C or D key for more than 3 seconds to rotate continuously.) Once it rotates to the proper position, click the (A) button to set a starting point, (B) button to set the end point. After points are set, the (A), (B), (C), and (D) lights turn off to indicate the initialization has been completed.

#### ■ Recalibrating Your Controller

Rotate the focus ring clockwise to desired start point; hold (SET) + (REC) + (POWER) buttons together for 3 seconds. Rotate to the desired end point and press (SET)+ (REC)+(POWER) for 3 seconds again.

### Setting Up Vibration and Lock Points

- To turn the vibration on or off, press and hold (REC) for 3 seconds.
- Press and hold (REC) + (A) to set controller to "M-Normal." Lock points can only be set while controller is in "M-Normal" mode.
- To set one lock point, turn controller to desired start point and press and hold (SET) + (C) for 3 seconds.
- To set a second lock point, turn the controller to the desired point and press and hold (SET)+(D) for 3 seconds.
- To set the controller to "M-Lock" mode, press and hold (REC)+(B) for 3 seconds. In "M-Lock" mode, controller cannot move past set lock points.
- To set the controller to "M-Zoom" mode, press and hold (REC)+(C) for 3 seconds. In "M-Zoom" mode, controller cannot move past set lock points. In "M-Zoom," controller also moves more slowly between set lock points for finer control.
- To clear all lock points, press and hold (REC) + (D).

#### **User Manual**

#### **■** Remote Record Trigger

Press (REC) on your controller to toggle Recording mode ON or OFF.

#### ■ Changing Damping Setting

Press and hold (POWER) + (REC) + (A) to set motor to damping 1 (Responsive +).

Press and hold (POWER) + (REC) + (B) to set motor to damping 2 (Responsive).

Press and hold (POWER) + (REC) + (C) to set motor to damping 3 (Smooth).

Press and hold (POWER) + (REC) + (D) to set motor to damping 4 (Smooth +).

### **■ LED Marker Light**

Press (POWER) quickly to toggle marker light ON or OFF.

#### **■** Screen Brightness

To change screen brightness, press and hold (SPEED) + (A), (B), (C), or (D), (SPEED) + (A) being the lowest brightness level, (SPEED) + (D) being the highest brightness level.

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# **Disclaimers**

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-Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example use only shielded interface cables when connecting to computer or peripheral devices).

## **FCC Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### **Cautions**

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

# Disclaimers

#### Terms and Conditions

Congratulations on purchasing your new CINEGEARS product. Please read this manual carefully before using the product. By using this product, you hereby agree to this disclaimer and signify that you have read it in full. You agree that you are responsible for your own conduct and any content created while using CINEGEARS products, and for any consequence thereof. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and any applicable polices and guidelines.

By reading this disclaimer, you also agree:

- **1.** Any part of this disclaimer is subject to change without prior notice. Refer to WWW.CINEGEARS.COM for the latest version.
- 2. CINEGEARS reserves the right of final interpretation of this disclaimer.

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# About Cine Gears Inc.

Cine Gears Inc. is an industry leading company that designs and manufactures digital wireless follow focus systems, lens control systems, camera motion control systems and accessories for film and broadcast industry. As a big believer in the power of creativity and ideas, we designed the Pegasus cablecam, the wireless motor drive that integrated a built in wireless transmitter, and the wireless finger wheel controller. The Cine Gears Inc. wireless lens control system has the international CE certification on all its equipment. Cine Gears lens control system can achieve the finest minutia of focus pulling, with extreme accuracy and control. This very same technology is what drives the Pegasus for ultra-smooth, highly controlled, programmed movement.

We have been working from Vancouver, B.C. for five years and our equipment has been used on hundreds of movies. Filmmakers of all experience levels will benefit greatly from a simple, professional, and well rounded follow focus system. The Single Axis and Multi Axis models provide greater ease, with lesscrew, and less wires. You can achieve professional film quality scenes on a shoestring budget. Camera operators, assistant camera operators, and jib operators can use the wireless follow focus to attain that perfect shot.

#### **Customer Support**



If you encounter any issues with any of our products please contact us directly via the details provided below. DO NOT CONTACT THE RETAIL STORE.

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