

# RONIN-S Focus Motor

User Guide

使用说明

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## In the Box

Focus Motor

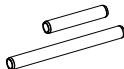
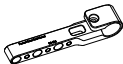
× 1

Rod Mount

× 1

15 mm Rod

× 2



Screw

× 4

Focus Gear Strip

× 2

Power Cable

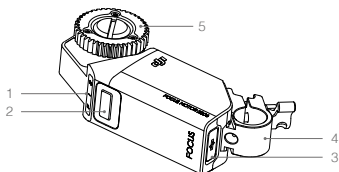
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## Introduction

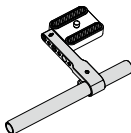
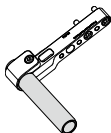
The RONIN™-S Focus Motor is used with the Ronin-S Focus Wheel to control the focus, iris, and zoom.

1. Status Indicator
2. Function Button
3. CAN Bus Port
4. Rod Clamp
5. Gear

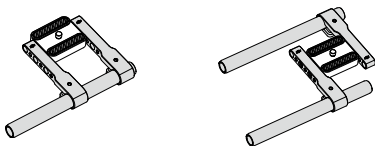


## Installation

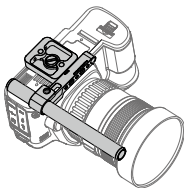
1. Select and attach the 15 mm rod to the rod mount according to the camera lens.
2. Attach the rod mount to the camera riser.



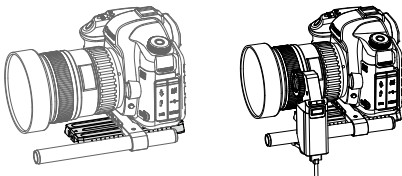
3. To increase stability or to use a Focus Motor on either side of the camera, attach two rod mounts.



4. Attach the camera riser with the rod mount to the bottom of the camera.

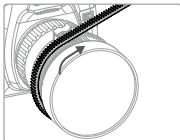


5. After attaching the camera to the mounting plate, attach the Focus Motor to the rod mount.

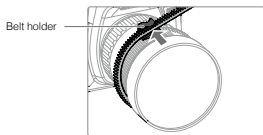


- The Focus Motor gear can be mounted on either side of the motor, and the position of the rod clamp is adjustable.
- Ensure the Focus Motor is mounted firmly.

6. If the camera does not have a lens focus ring with a 0.8 m gear, attach the provided gear strip to the camera lens to use the Focus Motor.
- a. Be sure the teeth of the gear strip are facing outward. Line up the gear strip on the focus ring or the zoom ring on the lens and pull it taut.

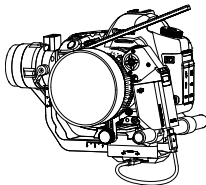


- b. Press the gear strip into the belt holder while holding it tightly. Be sure the gear strip is securely in place in the belt holder.



- To loosen the gear strip, push the gear strip outward while holding the belt holder tightly. DO NOT pull out the gear strip forcibly or the gear strip will get damaged.
- Trim the gear strip to the required length, leaving enough for adjustments (if needed).

7. Use the provided power cable to connect the Focus Motor to the Ronin-S 12 V / 2 A accessory power port.



## Usage

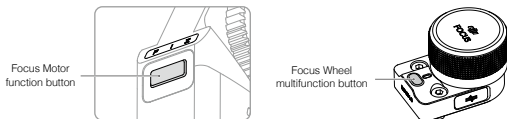
Control the Focus Motor by using the Focus Wheel after powering on the Ronin-S.

### Calibration

The Focus Motor can be used before calibration, but the range that the Focus Wheel can rotate the motor will be limited. After calibration, the Focus Wheel will be able to fully rotate the motor.

#### Calibrate Procedure

- For lenses with a mechanical limit, calibration can be done automatically. Press the Focus Wheel multifunction button or Focus Motor function button twice to calibrate the Focus Motor.



- For lenses without a mechanical limit, calibration must be done manually.
  - Press the Focus Wheel multifunction button or Focus Motor function button to start the calibration. When the motor rotates to the start point, stop the motor manually. The motor will continue to rotate and stop the motor manually again when it reaches the start point.
  - Repeat the step above to confirm the end point.

#### Set Focus Motor Range

The range of the Focus Motor can be set by confirming Points A and B on the Focus Wheel. Rotate the motor to the desired Point A and press the Focus Wheel multifunction button to confirm. After Point A is confirmed, repeat the step to confirm Point B. Press the Focus Wheel multifunction button again to delete Points A and B.



- The Focus Motor must be calibrated every time it is powered on.
- DO NOT touch the motor's gear when it is rotating.

The status indicator of the Focus Wheel indicates the calibration status.

Blinking Pattern	Descriptions
Solid yellow	Focus Motor is connected, but not calibrated
Blinks yellow slowly	Calibrating
Solid green	Focus Motor is connected and calibrated
Blinks green slowly	Point A is set
Blinks green twice	Points A and B are set

## Focus Motor Control

Press the Focus Motor function button to switch the status indicator between Focus (F), Iris (I), and (Z) Zoom. Make sure the status indicator is set to the lens that the Focus Motor is attached to.

Press and hold the Focus Motor function button to turn the status indicator on or off.

Press and hold the Focus Wheel multifunction button to reverse the rotational direction of the Focus Motor.

### Focus Motor Status Indicator Descriptions

Blinking Pattern	Descriptions
Blinks red twice	Focus Motor error, update firmware
Blinks red slowly	Focus Motor is disconnected
Blinks red quickly	Focus Motor has stalled
Solid green	Calibration complete
Blinks green slowly	Working normally

## Firmware Update

The Focus Motor firmware is part of the Ronin-S firmware. When new firmware is available, connect the Focus Motor to the Ronin-S to update.

# Specifications

Focus Motor	
Weight	198 g (power cable included)
Dimensions	110 x 53 x 30 mm
Max. Torque	0.5 Nm
Max. Speed	210 RPM
Operating Current	Free current: 25 mA (12 V); Stall current: 0.5 A (12 V)
Operating Voltage	6-17 V
Noise	25 dB
Rod Clamp Inner Diameter	15 mm
Gear	No. of teeth: 40; Module: 0.8
Operating Temperature	-20 to 55°C
Gear	
No. of Teeth	151
Module	0.8
Diameter	30 to 110 mm
Length	377 mm

This content is subject to change.

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