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EVOGimbals.com



PRO Focus Drive

English Manual V1.0







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PACKING LIST

Thank you for choosing EVO Gimbals! Before you begin please be sure to unpack your PRO Focus Drive and review your contents list!

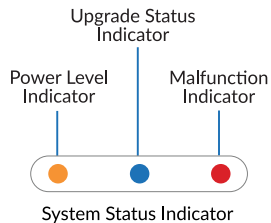
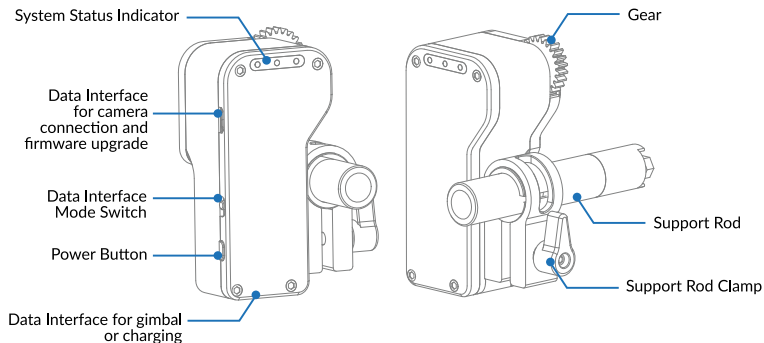
Your PRO Focus Drive Kit should be packed with the following items:

 PRO Focus Drive	 Allen Key
 Support Rod	 Control Cable
 PRO Focus Ring (Universal)	 Storage Case

The EVO PRO Focus Drive is an external follow focus system compatible only with the EVO RAGE3 used to manually control your camera's focus ring. The PRO Focus Drive utilizes a small quick reaction servo motor paired with a universal gear ring to mechanically turn the lens. Compatible with various camera lenses, the PRO Focus Drive system can control both the Follow Focus and the CCI camera controls using the Control Cable. The EVO PRO Focus Remote (sold separately) with Motion Sense Technology can control the Servo Follow Focus in both cable mode and wireless mode.

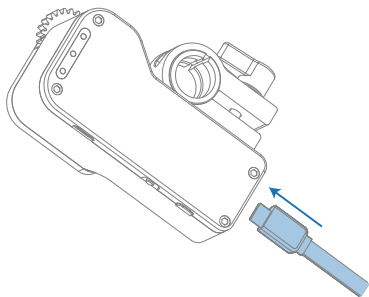
Please check that all items are included, if you are missing any items or components please contact EVO Gimbals.

EVO PRO FOCUS DRIVE



- Power Level Indicator**
Continuous Quick Flashing when battery level is low
Quick Flash 1 time for battery level less than 25%
Quick Flash 2 times for battery level of 25%-50%
Quick Flash 3 times for battery level of 50%-75%
Quick Flash 4 times for battery level of 75%-100%.
- Upgrade Status Indicator**
- Malfunction Indicator**
Please see Page 9 - Troubleshooting Guide for details

BATTERY CHARGING

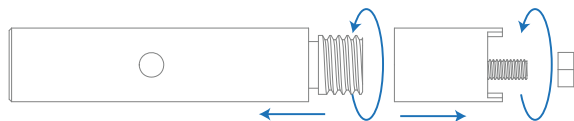


The built-in rechargeable Li-ion Battery inside the PRO Focus Drive can be charged by connecting to a power adapter or the RAGE3. This internal battery is used to supplement power to the servo for fast focal changes. It must be connected to the RAGE3 to operate.

Capacity: 300mAh
Voltage: 5V
Charging Current: 1500mA
Charging Time: 0.5h

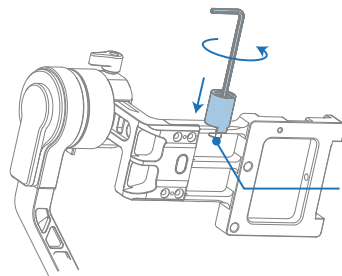
⚠ Please make sure the PRO Focus Drive is fully charged before first use or after long idle. The PRO Focus Drive must be connected to the RAGE3 to operate and will automatically shut down after 10s without power input.

PRODUCT INSTALLATION



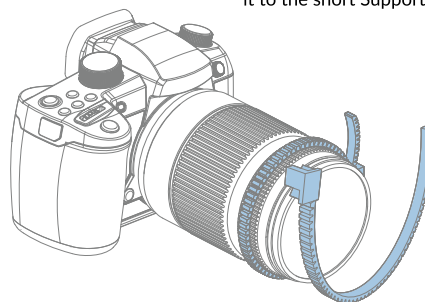
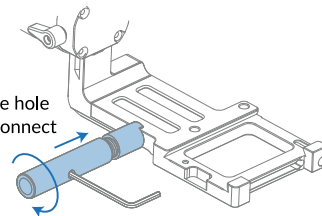
1 Unscrew the Support Rod into 2 pieces and remove the bottom screw nut.

PRODUCT INSTALLATION



2 Hold the Support Rod Nut inside the camera tray and slide the short Support Rod on to the other side. Use the Allen Key to tighten the short piece.

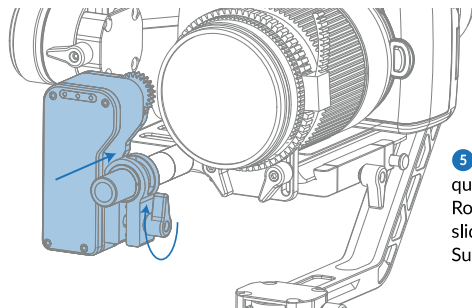
3 Insert the Allen key into the hole of the long Support Rod and connect it to the short Support Rod.



4 Unlock the PRO Focus Ring and slide it on the lens. Ensure that the ring is sufficiently tight and make sure the lens has an unobstructed full range of synchronous motion.

⚠ Before installation of PRO Focus Drive outer gear to the PRO Focus Ring, adjust the PRO Focus Ring tail to an appropriate location that avoids any interference with the rotation of the lens.

PRODUCT INSTALLATION

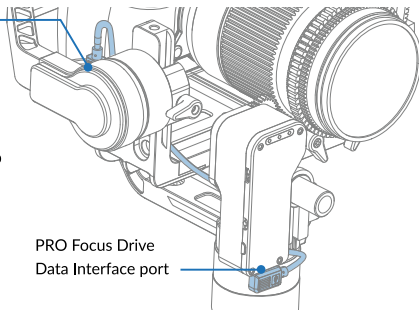


- 5 Mount the camera and gimbal quick-release plate. Loosen Support Rod Fixing Clamp of Focus Motor and slide the PRO Focus Motor onto the Support Rod.

RAGE3 Tilt Motor
Data Interface port

- 6 Use the Control Cable to connect the PRO Focus Drive to the RAGE3's Tilt Motor Data Interface port.

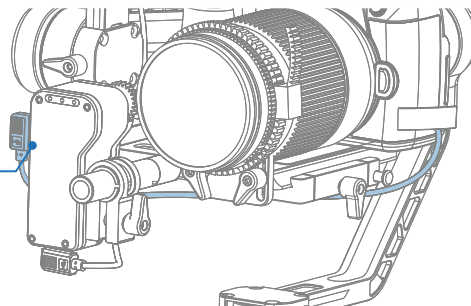
PRO Focus Drive
Data Interface port



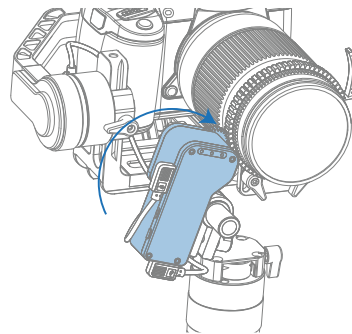
PRODUCT INSTALLATION

- 7 Connect the corresponding camera control cable to Left-side Data Interface on the PRO Focus Motor, and then the other end to the corresponding input on the camera.

PRO Focus Drive
Left-Side Data
Interface port

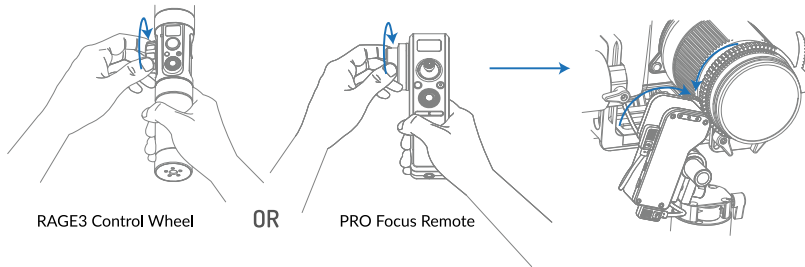


- 8 Adjust camera and stabilizer balance according to the EVO RAGE3 User Manual instructions. Make sure that PRO Focus Drive is in the correct location and its outer gear fits into the PRO Focus Ring before adjusting Tilt Axis balance.



HOW TO USE

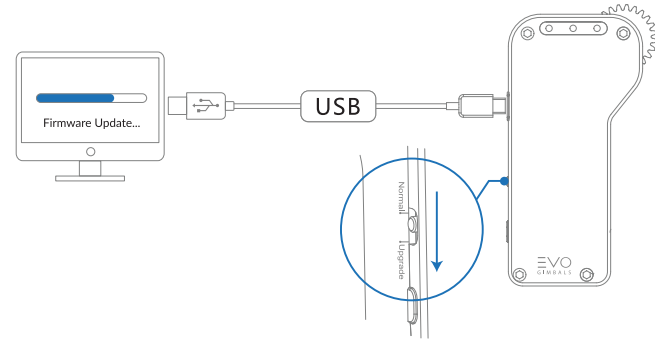
When the PRO Focus Drive is connected correctly, it will automatically start after connecting to the RAGE3 or the PRO Focus Remote. Its gear will rotate simultaneously to the rotation of the RAGE3 Follow Focus Controller or the PRO Focus Remote Control.



⚠ If the Sony camera power supply setting is set to OFF in the RAGE3 menu simply press the power button on the PRO Focus Drive to turn the setting ON. If the drive fails to startup and respond, please refer to Page 9 Trouble Shooting Guide.

FIRMWARE UPGRADE

1. Visit EVOGimbals.com
2. Using the Downloads menu, scroll down to the EVO PRO Focus Drive and download the driver, calibration tool and latest firmware. (USB driver installation is not needed for Mac or WIN 10 system OS).
3. Connect the PRO Focus Drive to your computer via a Micro USB cable. Power on the FPro Focus Driver. Using the Data Interface Mode Switch, move the switch to Upgrade.
4. Start the Calibration Tools Software and upgrade the firmware following the instructions.



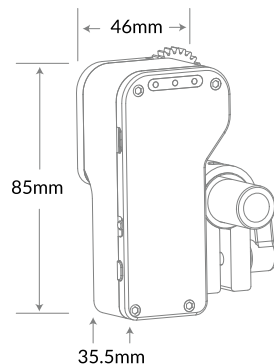
TROUBLESHOOTING GUIDE

No.	Malfunction Status	Probable Cause	Solutions
1	Red Light Blinks 1 time	Cable Disconnection	Check Cable Connections Pages 5 & 6 of user manual
2	Red Light Blinks 2 times	Motor or Gear obstructed motion that caused auto protection	Make sure you have unobstructed full range of synchronous motion.
3	Red Light Blinks 3 times	Camera Control Interface Short-circuit	Check Cable Connections Pages 5 & 6 of user manual power cycle both units
4	Red Light Blinks 4 times	System Malfunction	Please contact EVO Gimbals Tel: (866) 977-6688 or support@evogimbals.com
5	Solid Red Light	Upgrade Failure	Please upgrade firmware again
6	the EVO PRO Focus Drive wont start	The PRO Focus Drive Battery is Low	Charge the PRO Focus Drive until solid yellow light status
		Wrong Cable Connection	Check Cable Connections Pages 5 & 6 of user manual
		RAGE3 is not started	Make sure the RAGE3 is started first
		Sony Camera power supply function is OFF in RAGE3 Menu	Manually start the PRO Focus Drive by pressing its power button

SPECIFICATIONS

Charging Voltage 5V
 Built-in Li-ion Battery Capacity 300mAh
 Weight 176g
 Gear 0.8 Mod, 24 Teeth

Compatible Stabilizer RAGE3
 Charging Current 1500mA
 Charging Time 0.5h



DISCLAIMER AND WARNING

The information contained herein affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings herein may result in serious injury to you or bystanders, or damage to your device or property. EVO Gimbals reserves the right of final explanation for this document and all relevant documents relating to the EVO PRO Focus Remote with Motion Sense Technology and the right to make changes at any time without notice. Please visit EVOGimbals.com for the latest product information.

By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product and for any consequences thereof. You agree to use this product only for purposes that are proper and in accordance with all terms, precautions, practices, policies and guidelines EVO Gimbals has made and may make available.

EVO Gimbals accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. Users shall observe safe and lawful practices including, but not limited to, those set forth herein. All product names or marks referred to hereunder are trademarks or registered trademarks of their respective holders.

Read the ENTIRE User Guide to become familiar with the features of this product before operating. Failure to operate the product correctly can result in damage to the product or personal property and cause serious injury. This is a sophisticated product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. DO NOT use with incompatible components or in any way otherwise as mentioned or instructed in the product documents provided by EVO Gimbals. The safety guidelines herein contain instructions for safety, operation and maintenance. It is essential to read and follow all of the instructions and warnings in the User Guide, prior to assembly, setup or use, in order to operate the product correctly and avoid damage or serious injury.

CAUTION AND WARNING

Caution:

1. The EVO PRO Focus Drive is a high-precision control device. Damage may be caused to the PRO Focus Drive if it is dropped or subject to external force, and this may result in malfunction.
2. Make sure the rotation of the gimbal axes is not blocked by external force when PRO Focus Drive is turned on.
3. The PRO Focus Drive is not waterproof. Prevent contacts of any kind of liquid or cleaner with the PRO Focus Drive. It is recommended to use dry cloth for cleaning.
4. Protect the PRO Focus Drive from dust and sand during use.

Warning:

To avoid fire, serious injury, and property damage, observe the following safety guidelines when using, charging, or storing your batteries.

Battery Charging:

1. Do not attach the batteries to a wall outlet or car charger socket directly. Always use an EVO Gimbals approved adapter for charging. EVO Gimbals takes no responsibility if the battery is charged using a non-EVO Gimbals charger.
2. Do not put the battery and charger near flammable materials or on flammable surfaces (such as carpet or wood). Never leave the battery unattended during charging to prevent any accident.
3. Do not charge the battery immediately after use, because the battery temperature may be too high. Do not charge the battery until it cools down to normal room temperature. Charging the battery with its temperature over 45°C (113°F) or lower than 0°C (32°F) may lead to leakage, overheating, or damage.
4. Examine the charger before use, make sure there is no damage to the enclosure, cord, plug, or other parts. Never use a damaged charger. Do not clean the charger with any liquid containing alcohol or other flammable solvents. Disconnect the charger when not in use.

Battery Storage:

1. Keep batteries out of the reach of children and pets.
2. Do not leave the battery near heat sources such as a furnace or heater, or inside of a vehicle on hot days. Never expose the battery in any environment with temperature of over 60°C (140°F). The ideal storage temperature is 22°C (72°F) - 28°C (85°F).
3. Store batteries in a dry environment.
4. Do not leave the battery unused for too long after it has been completely discharged to prevent over-discharge of battery which may result in battery damage and permanent failure.

BATTERY WARNING

Battery Maintenance:

1. Never use the battery when the temperature is too high or too low.
2. Do not store the battery in any environment with a temperature of over 60°C (140°F).

Transportation Notice:

1. Discharge the battery power to 25% or lower before carrying the battery on an airline flight. Only discharge the battery in a fireproof location, ideally in a dry and open area.
2. Do not store or transport batteries together with metal objects such as eyeglasses, watch, and jewelry.
3. Do not transport damaged batteries. When transporting by ground, be sure to discharge the battery to less than 50%.

Battery Disposal:

Dispose of the battery in specific recycling boxes only after a complete discharge. Do not dispose the battery in regular trash containers. Strictly follow your local regulations regarding the disposal and recycling of batteries.

WARRANTY

EVO Gimbals ("EVO Gimbals") warrants this product against defects in material or workmanship for the time periods and as set forth below. Pursuant to this Limited Warranty, EVO Gimbals will, at its option, (i) repair the product using new or refurbished parts or (ii) replace the product with a new or refurbished product. For purposes of this Limited Warranty, "refurbished" means a product or part that has been returned to its original specifications. In the event of a defect, these are your exclusive remedies.

Labor: For a period of one (1) year from the original date of purchase of the product ("Labor Warranty"), EVO Gimbals will, at its option, repair or replace with new or refurbished product, product determined to be defective. If EVO Gimbals elects to replace the product after this Labor Warranty has expired but while the Parts Warranty below is still in effect, it will do so for the applicable labor charge.

Parts: For a period of one (1) year from the original date of purchase of product ("Parts Warranty"), EVO Gimbals will supply new or refurbished replacement parts in exchange for parts determined to be defective.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty. Please refer to the End User License Agreements included with the Product for your rights and obligations with respect to the software.

Instructions: To obtain warranty service, you must deliver the product, freight prepaid, in either its original packaging or packaging affording an equal degree of protection to the EVO Gimbals authorized service facility specified. It is your responsibility to backup any data, software or other materials you may have stored or preserved on your unit. It is likely that such data, software, or other materials will be lost or reformatted during service and EVO Gimbals will not be responsible for any such damage or loss. A dated purchase receipt is required. For specific instructions on how to obtain warranty service for your product, visit Our Official Web Site: EVOGimbals.com

Or email EVO Gimbals Customer Support
support@evogimbals.com

For an accessory or part not available from your authorized dealer please visit our website.

Repair / Replacement Warranty: This Limited Warranty shall apply to any repair, replacement part or replacement product for the remainder of the original Limited Warranty period or for ninety (90) days, whichever is longer. Any parts or product replaced under this Limited Warranty will become the property of EVO Gimbals.

This Limited Warranty only covers product issues caused by defects in material or workmanship during ordinary consumer use; it does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, misuse, limitations of technology, or modification of or to any part of the EVO Gimbals product.

This Limited Warranty does not cover EVO Gimbals products sold AS IS or WITH ALL FAULTS or consumables (such as fuses or batteries). This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the product. This Limited Warranty is valid only in the United States.

LIMITATION ON DAMAGES: EVO GIMBALS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.

DURATION OF IMPLIED WARRANTIES: EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may have other rights which vary from state to state.

WARRANTY PERIOD:

The warranty period is (1) Year from the original date of purchase. During this warranty period, under normal use, EVO Gimbals will at its option, repair and/or replace parts determined to be defective.

WARRANTY DOES NOT COVER:

1. Any unauthorized maintenance, misuse, collision, liquid infiltration (water damage), or modifications.
2. Incorrect Use of Product: altering software, removing serial numbers/logos, using cameras not approved by EVO.
3. Damage due to fire, flood, acts of God, misuse and related damage.
4. Any prepaid freight for warranty service.

WARRANTY SERVICE:

If any product issues arise please contact your dealer first. Many gimbal performance problems can be solved with a simple calibration sequence. Be sure to visit www.EVOGimbals.com for the latest tutorial videos.

If it is found that service on your gimbal is needed please visit our official website (www.EVOGimbals.com) or email us support@evogimbals.com to start a warranty claim.

WARRANTY REGISTRATION:

Please register your warranty so we can provide you with the latest firmware updates, user manuals and tutorial videos. To register your warranty please and/or obtain warranty service for your gimbal, visit Our Web Site: EVOGimbals.com