

EVO
GIMBALS

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EVOGimbals.com



EVO
GIMBALS
SS

English Manual V2.0

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IMPORTANT MESSAGE

Thank you for choosing EVO Gimbals as your camera stabilization solution! We know that buying a new product can be very exciting and we are sure that you probably can not wait to use your new gimbal! Before you start PLEASE read this manual and become familiar with your gimbal's components and operating modes.

We highly encourage everyone to also watch our great tutorial videos on our website as a supplement to this manual.

Battery Safety

Your Gimbal comes with (1) pre-installed Lithium Ion Battery. Here are some simple safety precautions you can take to ensure the best performance for your gimbal's battery.

- Always handle your gimbal with care.
- Always store your gimbal in a cool dry and well ventilated area.
- Never throw your batteries or gimbal in the trash! Always be sure to recycle them at the appropriate battery recycling center.

Lithium-Ion batteries should not be exposed to extreme temperatures. Heat and cold stress the batteries. Always charge and use your batteries at room temperature. If the battery has been exposed to extreme temperatures, allow the battery to return to room temperature before charging it or using it.

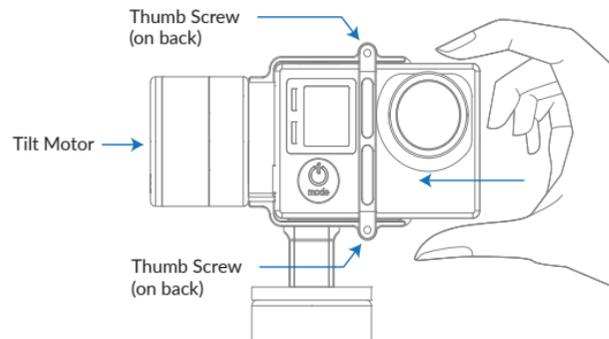
WARRANTY

Your new gimbal comes with a 1 Year Parts & Labor warranty. Be sure to register your warranty by registering online at EVOGimbals.com

LATEST INFORMATION

For the latest user manuals, tutorial videos, firmware and calibration instructions please visit our official webpage at EVOGimbals.com

IMPORTANT MESSAGE



Warning

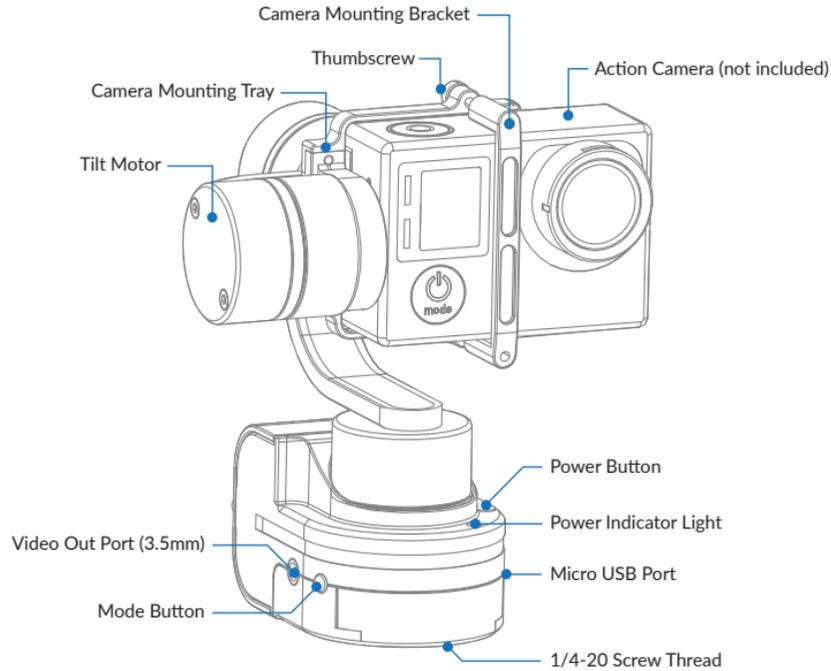
**ALWAYS MOUNT YOUR ACTION CAMERA
BEFORE YOU POWER IT ON!
FAILURE TO DO SO CAN DAMAGE THE UNIT!**

1. Unscrew to two thumb screws on the back of the action camera mount.

2. Slide the action camera all the way until it touches the Tilt Motor. Tighten the the two thumb screws.

Important!

Your EVO SS has an electronic gyroscope that can be affected by temperature. Always ensure proper startup calibration to ensure the best performance. Please refer to our tutorials videos on EVOGimbals.com for more information on proper setup, startup and maintenance calibration.



1 UNPACK THE EVO SS

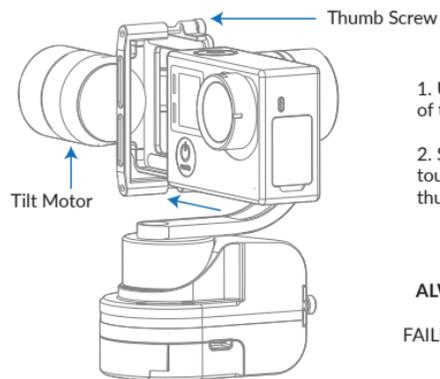
Thank you for choosing EVO Gimbals! Before you begin please be sure to unpack your SS and review your contents list!

Your EVO SS should be packed with the following items:

 EVO SS Gimbal	 Telescoping Extension Pole
 Accessory Adapter	 18350 LI-ION Batteries (x4)
 18350 LI-ION Charger	 Micro USB Cable
 Camera Charge Cable (USB-C)	 x2 Camera Charge Cables USB Mini*
 Camera Protection Pad	 Storage Bag
 Manual	 1 Year U.S. Warranty

*2 Micro USB Charging cables for GoPro Hero3 thru Hero4 Black - 3 Wire Charging Only, 4 Wire Activates Video Out Port.
Please check that all items are included, if you are missing any items or components please contact EVO Gimbals.

2 MOUNT ACTION CAMERA



1. Unscrew to two thumb screws on the back of the action camera mount.
2. Slide the action camera all the way until it touches the Tilt Motor. Tighten the two thumb screws.

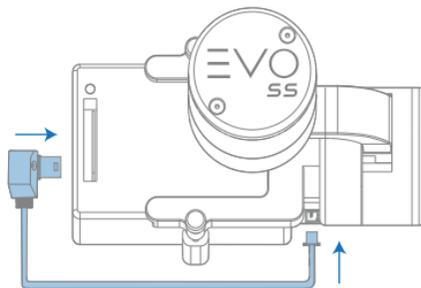


Warning

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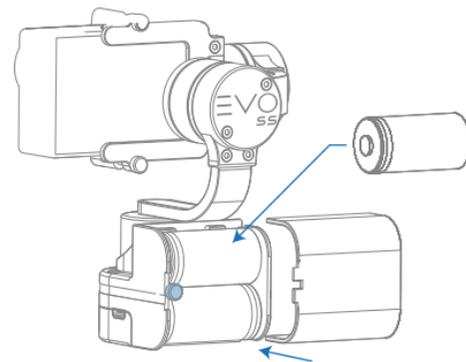
3 CHARGING CABLE

Plug the camera charging cable into your camera and into the camera charging port at the base of the tilt motor.

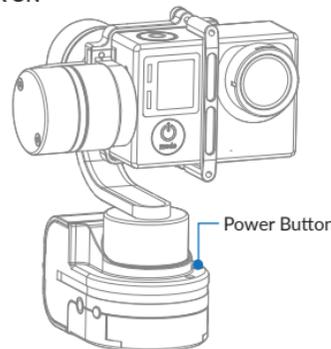


4 INSTALL THE BATTERIES

Carefully install both charged batteries noting the correct direction, then slide the battery cover plate in place and tighten the battery cover thumbscrew.



5 POWER ON



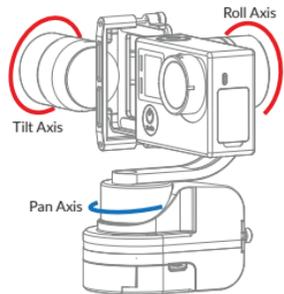
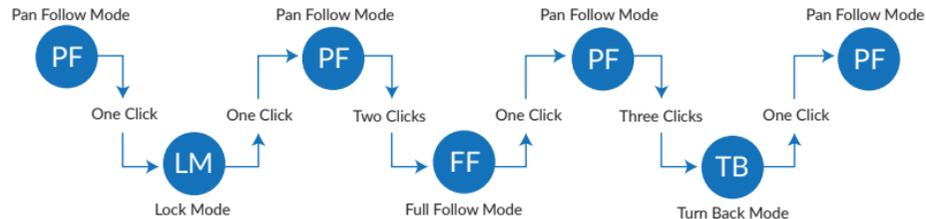
With the gimbal on a flat non-moving surface press the Power Button once and wait 4-5 seconds for the gimbal to initialize.

Once powered on, The EVO SS starts up in Pan Follow Mode.

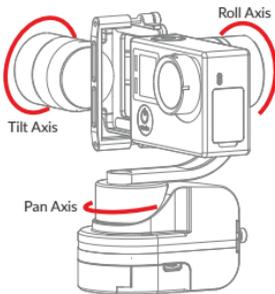
See page 7 for details on the other modes.

OPERATING MODES

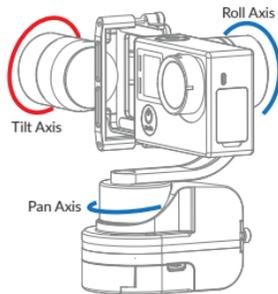
The EVO SS enters Pan Follow Mode (PF) by default each time when powered on. Switch into Lock Mode (LM) by single pressing the Mode Button. Double press the Mode Button to enter Full Follow Mode (FF). Triple press the Mode Button to enter Turn Back Mode (TB - 180° rotation on Pan axis). Single press the Mode Button while in Lock Mode, Full Follow Mode or Turn Back Mode will return to the Pan Follow Mode.



Pan Follow Mode (PF): The camera pans left/right following the movement of the stabilizer while the tilt and roll axes are locked. Push the joystick up/down allows manual control of the tilt axis.

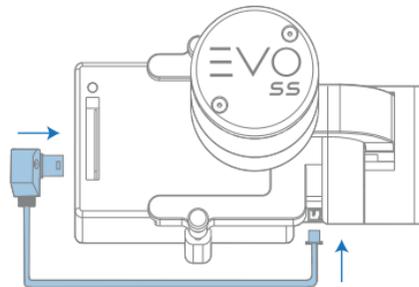


Lock Mode (LM): This mode locks movement of all three axes to keep the camera fixed on a shooting direction. Push the joystick up/down and left/right allows manual control of the tilt axis and pan axis.



Full Follow Mode (FF): The camera pans and tilts following the movement of the stabilizer. Push the joystick left/right allows manual control of the roll axis.

CAMERA CHARGING & VIDEO OUT



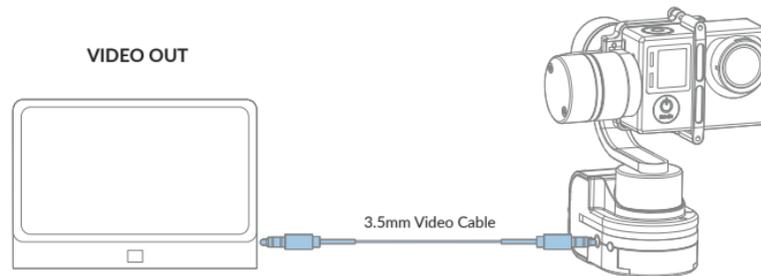
There are 3 GoPro accessory cables included in the box. Two are Mini USB cables and one is a USB-C cable.

For GoPro Hero3 through Hero4 Black use the 3-pin or 4-pin Mini USB cable. The 4-pin Mini USB cable activates the video out port.

For GoPro Hero5 through the GoPro Hero6, use the USB-C cable for charging only. The video out port is unavailable.

Choose the appropriate cable for your application. Keep in mind that battery life will vary dependent on the overall health of your camera's batteries. Run times while charging your camera will typically be reduced to 1.5 to 2 hours total.

VIDEO OUT



Please note that once the AV cable is plugged into the monitor that your LCD monitor on your GoPro will turn off automatically. (A/V Output cables are sold separately).

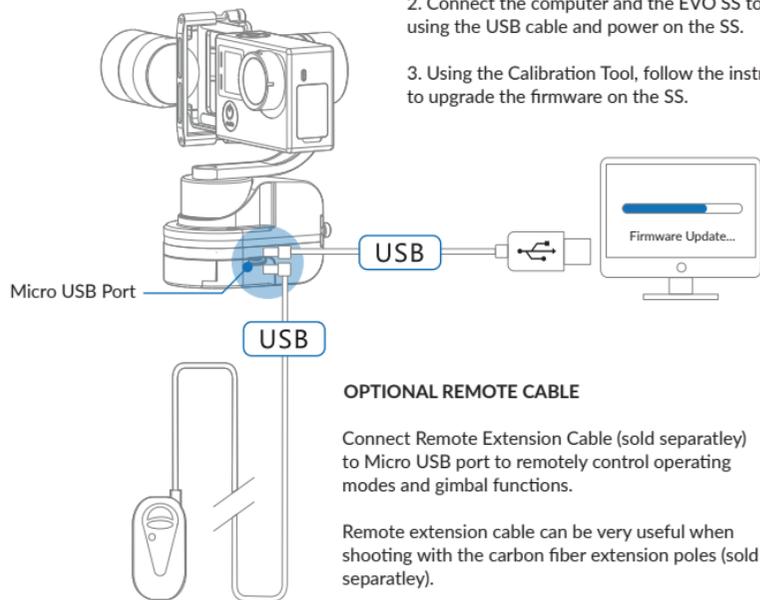
FIRMWARE & SOFTWARE UPDATES

Connect the EVO SS to your computer via Micro USB cable for the firmware upgrade and calibration.

1. Visit EVOGimbals.com and click "Downloads" in the top menu and find the SS Gimbal. Download and Calibration Tool, the latest firmware version and USB Driver that works with your computer.

2. Connect the computer and the EVO SS together using the USB cable and power on the SS.

3. Using the Calibration Tool, follow the instructions to upgrade the firmware on the SS.



OPTIONAL REMOTE CABLE

Connect Remote Extension Cable (sold separately) to Micro USB port to remotely control operating modes and gimbal functions.

Remote extension cable can be very useful when shooting with the carbon fiber extension poles (sold separately).

STARTUP CALIBRATION

If you find during normal use that your camera's pitch or roll angle begins to drift or deviate then you need to first try restarting your gimbal. Simply power off your gimbal and set it down on a flat non-moving surface. Power on your gimbal and wait 5 seconds for the startup calibration lights to stop flashing. The Startup Calibration is now complete.

The calibration sequence can be initiated through the EVO Remote APP or through either the wired or wireless remote accessories.



1. Use either the wired or wireless remote to initiate calibration.

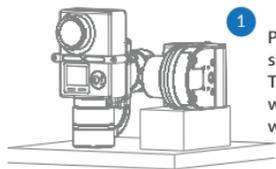


2. Connect the either remote to the EVO SS and move the Joystick up for 2 seconds until the indicator light remains on.

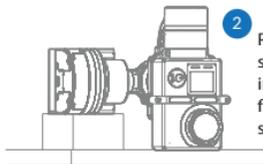
3. Move Joystick down for 2 seconds until the indicator light flashes once intermittently. The gimbal is now ready to calibrate.

NOTE: See Page 11 to continue calibration

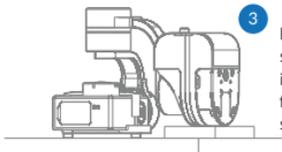
SIX-SIDED CALIBRATION



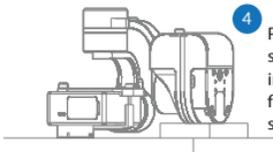
1 Place gimbal as shown. The indicator light will flash 2 times when successful.



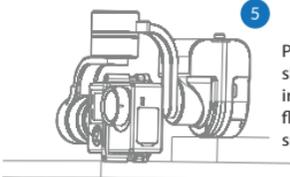
2 Place gimbal as shown. The indicator light will flash 3 times when successful.



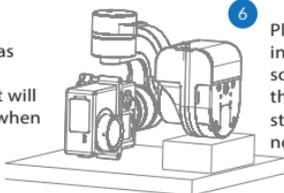
3 Place gimbal as shown. The indicator light will flash 4 times when successful.



4 Place gimbal as shown. The indicator light will flash 5 times when successful.



5 Place gimbal as shown. The indicator light will flash 6 times when successful.



6 Place gimbal as shown. The indicator light will remain solid for 5 seconds and then the gimbal will re-enter standby mode. Calibration is now complete.

EVO GIMBALS REMOTE APP DOWNLOAD

Download the EVO Gimbals Remote App from either the Apple App Store or Google Play.

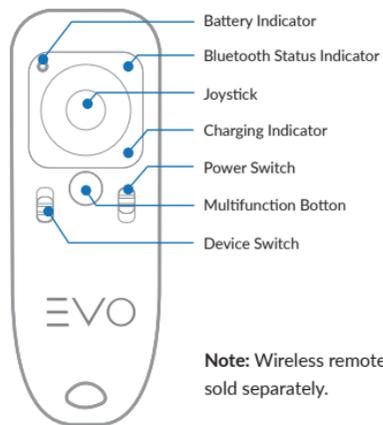


The EVO Gimbals Remote App is subject to regular updates.

Connecting the Stabilizer to Smartphone

1. Power on the stabilizer.
2. Confirm Bluetooth is activated on your smartphone.
3. Open the EVO Gimbals Remote App on your phone.
4. Tap on the Connect Your Device button and search for nearby signals, choose your stabilizer to connect.





Note: Wireless remote sold separately.

Battery Indicator

4 Flashes = 100 - 76%
 3 Flashes = 75 - 51%
 2 Flashes = 50 - 26%
 Flashes Quickly = 25 - 0%

Charging Indicator

Red = Charging
 Green = Fully Charged

Device Switch

UP = Remote Control
 DOWN = Smartphone Control

WIRELESS REMOTE PAIRING INSTRUCTIONS

1. Place remote within 5 feet of gimbal.
2. Hold down the multifunction button while switching on the power switch.
3. Bluetooth Indicator light will rapidly flash while connecting. Bluetooth Indicator light will turn solid when connected successfully.

Joystick

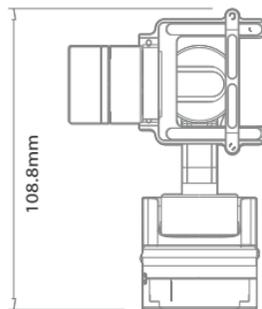
The Remote Joystick has a built in Mode Select by pressing down. Please see page 7 for Mode Select details.

Multifunction Button

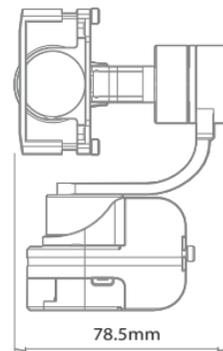
Single click to return gimbal to original position.

Remote Specifications:

Charging Voltage: 5V
 Battery Life: ~30 Hours
 Battery Capacity: 150mAh
 Transmit/Receive Current: 11.9mA
 Normal Operating Current: 2.8mA
 Max Control Distance: ~30' Feet



MAX CAMERA DIMENSIONS
 Height: 42.7mm
 Width: 31mm



Stabilization Accuracy:

±0.01°

Follow Accuracy:

±0.2°

Pan Axis Range:

-320° to +320°

Tilt Axis Range:

-185° to +130° (Inverted)

Roll Axis Range:

-40° to +40°

Motor Type:

3x Triple Wound HT Brushless

Working Current Static Current:

6.8 mA (at 6.8 VDC)

Dynamic Current:

120mA (at 8.4 VDC)

Max Motor Current:

2A maximum (at 12.6 VDC)

Camera Charging Current:

800mA

Camera Charging Voltage:

4.5V-5.1V

Batteries:

IMR 18350, 900mAh x 4 (included)

Operating Temperature:

-5 to 122°F / -15 to 50°C

Weight:

0.45 lbs / 180g (unloaded)

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.

WARRANTY

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