

# FLYCAM HD-3000 Camera Stabilizer (FLCM-HD-3-QT)

## Assembly Manual



### What's In The Box

Please inspect the contents of your shipped package to ensure you have received everything that is listed below.



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## ■ HD-3000 Stabilizer Setup

- Attach Central Post to the Base Platform by means of threaded stud in center. Rotate the Base Platform to properly secure with Central post.



- Loosen allen bolts at the bottom of Camera Platform, align its holes with top of Central Post & re-tighten them with allen key securing the platform to post.



**NOTE:** The camera can be directly attached to Head Plate.

- Remove Head plate from 3-piece Head Assembly in order to attach it to your camera. You will note a number of mounting holes that can be used to adapt various cameras. Keep the camera in center of Head Plate and secure it properly.
- Do not over tighten this adjustment as it can break the threaded insert.

**NOTE:** You can also mount your camera using Quick Release Plate.

- Open the lever and remove Quick Release Plate from Adapter. Then attach it with your camera with the help of screw driver. Insert your camera setup into the Adapter and tighten the lever back.



## ■ Adding Weights & Positioning for Proper Balance

- Continuing the assembly and balance requirements to make your Flycam Handheld Video Stabilizer fully functional you will note that the base platform has a provision to mount the balance weights via 2x BH bolts secured with knobs on both sides of the post.



The purpose of the counter weight system is to match the low end of the stabilizer to the weight of the camera and accessories at the high/top end with the gimbaled handle as the pivot point in between.

The heavier the camera and accessories, the more weights are required to achieve proper balance. Generally as you add weight to one side of the central post, an equal amount has to be added to the other side to maintain horizontal balance.

However if you are using an offset configuration such as a flip out viewfinder or off center accessories, extra weights might be needed on the opposite side of the post to counter act and maintain proper balance.

Total weight fixed to the base platform should be equal to the weight of your camera plus the head and any accessories.

- **Vertical Adjustment** of telescopic central post is made by loosening the control located at the base, raising or lowering the post to desired location and then retightening the vertical control. Do not over-tighten this control.



## ■ Balancing your Flycam Stabilizer

Before beginning the balancing process check the following:

- Camera is securely attached to Head Plate
- Lens cap is removed and secured
- Telescoping Clamp is tightened
- Weight discs are added successfully
- All screws are tightened securely
- Battery, all accessories and cables are secured

## ■ Balancing the Horizontal Axis

When your Flycam HD Stabilizer is properly assembled, you can start the test and setup of horizontal balance. Horizontal Balance allows the camera to remain level, during operation, with the Central Post in a vertical position unless off-axis framing is desired.

When testing for horizontal balance start from a flat and level surface like table. This will allow the stabilizer to hang freely as you hold it. If your stabilizer is correctly balanced on its horizontal axis, then it will be both leveled & upright, with Central Post in a perfect vertical position.

**NOTE:** *If you do not have enough weight on Base Platform the entire Flycam could flip upside down. If this movement starts to happen, be ready to catch the sled before a complete 180° occurs. This type of unwanted movement requires more weight to be added to the base with additional weight discs.*

Another way to accomplish Horizontal Balance is to move the center of gravity of camera by re-mounting the camera to a different area of the Head and Mid Plate, either front-to-back or side-to-side.

If the stabilizer be front heavy, loosen the screws on the sides of Head Plate and gently slide Head Plate back until optimum balance is achieved. Tilting to the back means the load is tail heavy requiring the plate to be adjusted forward on the head.

If the stabilizer leans towards right, then loosen the screws on the bottom of Bottom Plate and gently slide the Mid Plate towards left. If it leans to left, then adjust the Mid Plate towards right. A bit at a time until balance is achieved.

**NOTE:** *Always secure the screws and all parts after any adjustments are made.*

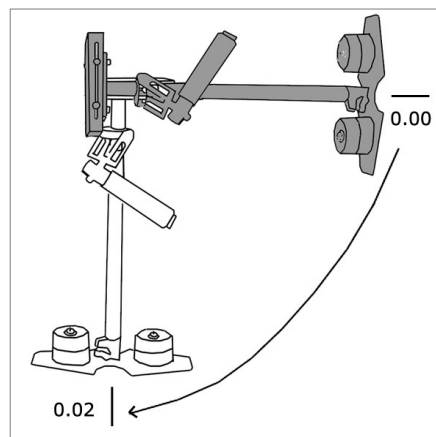
## ■ Balancing the Vertical Axis

The sled should be tied up to the docking adapter of your stand or similar, so that you can start the fore & aft balancing adjustments by centering the camcorder over Central Post. To do this-

- Loosen the side screws of Head Plate and the bottom screws of Bottom Plate.
- Look at the stabilizer from side. If the camcorder lens is tipped up or down, move the camcorder forward or backward until the center of balance is situated over Central Post.
- Then, look at the stabilizer from front. If the post is not vertical, adjust the bottom plate until Central Post is vertical.
- You can also adjust the weight cups closer to & farther away from the sled as per requirement, till the post is straight up and down.

**NOTE:** *The stability of Flycam Stabilizer depends on it being slightly bottom heavy. If it is top heavy, it will tilt more. If it is too bottom heavy, it will be sluggish and hard to aim.*

**Slightly Bottom Heavy, it will be both Stable and Easier to Control.  
Check the Vertical Balance by using this Drop Time Test.**



- Make sure that everything is tight.
- Grasp Central Post near the base and move it from vertical to horizontal.
- Hold it there. Be sure that it will not hit the stand when you drop it. Keep your free hand to catch the central post when it drops.

- Count how many seconds it takes to fall to vertical. Try using a stopwatch.
- If the drop time is less than 2 seconds, it is too bottom heavy. You need to move the bottom mass closer to post.
- If the drop time is more than 2 seconds, it is top heavy.

### **A Drop Time of 2-2.5 seconds is preferred.**

**NOTE:** *Recheck the balance by looking at sled. If necessary, use side screws and bottom plate screws to make required adjustments.*

## **Balancing Review**

Proper system balance can only be achieved once your camera is set up with appropriate accessories ready for shooting. This means batteries, lenses, media cards, LCD viewfinder/monitor, quick release plate, on-cam lights, and all the gear you will use for your recording session.

- Remove top plate of stabilizer and line-up your camera so that its center of gravity is as close to the center of plate as possible (basically hold the camera in your hand until it feels balanced both left and right as well as forward and backward).
- Find hole in the plate that is as close to threaded tripod mount on your camera as possible (while you are still holding your camera's center of gravity to the center of plate). Attach your camera (or quick release, if you have one). Tighten it down so it won't accidentally rotate.
- Re-attach top plate to the stabilizer. Center it, but don't worry about getting it absolutely perfect.
- Remove most of the weights from Base Platform, but leave one on each side.
- Insert the central post as far as it can go and tighten so it won't slide out.
- Hold the handle normally and turn stabilizer so that it is horizontal to the ground. Let go of the stalk while keeping a firm grip on handle and count how long it takes to return to vertical again. You should be able to count a good, 'One-one thousand, two-one thousand', before it rights itself. With only two little weights it might take considerably longer.
- Add one pair of weights at a time and repeat 'horizontal to vertical' test, until it falls at the correct rate. It will probably not be perfect.
- You'll get one movement that's too slow and then you'll add a pair and it will fall too fast. When that happens, take off the last pair of weights that you added.
- Tighten down the weights so they don't slide around.
- To get the perfect count, slightly lower Central Post that attaches the Base Platform with the weights, until you get the 'one-one thousand, two one thousand' count to vertical position.
- Fine-tune the left-right, forward-backward balance. You will have to go back and forth between the two directions to get the balance just right. Loosen the screw sets that allow the sled to move left and right. Adjust the top plate so that it is centered and tighten down the screws.
- Repeat for forward-backward balancing.
- Check to see if your camera is sitting level. If not, repeat the necessary steps until it does.
- Practice walking movements ensuring your body motion is not transmitted to your hands and then to stabilizer and camera.

## ■ Holding your Flycam Stabilizer

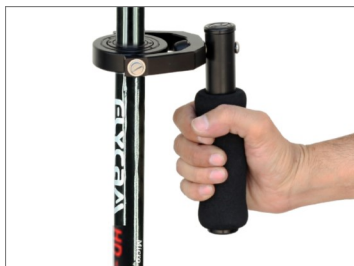
When handling your Flycam HD Stabilizer, one hand holds onto the handle while other is used to gently guide the camera in direction you wish to shoot and frame shot.

For normal shooting, hold the handle in middle.

For shots that require framing the camera up, down or sideways, hold the handle firmly at bottom.

This will allow the yoke part of gimbal to rotate without hitting your hand or knuckles.

- When you handle your HD Stabilizer, you will want to use your 'stabilizer hand' to gently hold onto either, the point just below yoke and bearing assembly, or an area down by the Base. These two areas allow for easy control of HD Stabilizer when in use.



## ■ Maintenance

**Bearing Maintenance:** The main bearing on HD stabilizer is attached to Central Post about two inches from top. It is of metal construction and partially enclosed by bearing assembly. If after a period of time your bearings don't turn smoothly, lubricate with a minimum quantity of light lubricating oil. It can also be used on the Yoke and Handle Bearings. Be sure to keep oil away from your camera, & clean up any over spill.

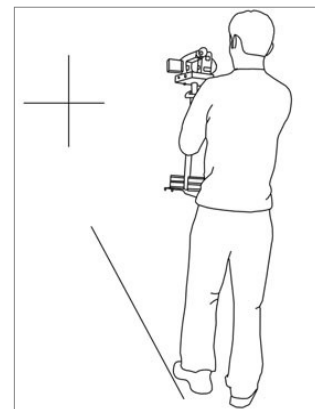
**Cleaning:** Do not use solvents or harsh cleaners of any kind on your stabilizer. If the unit becomes dirty, use a damp soft cloth or sponge with mild detergent to gently clean external parts.

**Storage:** Should you need to store your Flycam HD stabilizer for a long period of time, then place the unit upright in a dry or low-to-normal humidity area whenever possible. If you are unable to find this kind of environment then we suggest you store the unit in an airtight plastic bag. Standing the unit upright is preferred as it alleviates stress on the system.

**NOTE:** *Flycam HD Stabilizer doesn't work under water, nor is it waterproof. Avoid direct exposure to rain, water spray or any harsh environment. The bearings are not sand proof. Avoid getting dirt or sand in them.*

## ■ Practice Makes You Perfect - Walking the Line

- Using masking or gaffers tape, create a cross mark on a flat and even wall. The mark becomes your framing center. On the floor leading up to the cross mark, lay a straight tape line of about 20 feet. Practice walking the line, while keeping the cross mark center framed and in-focus. With a bit of effort, dramatic fluid like movements will become your second nature and provide production value to all your setups.





**NOTE:** *If you wish to use Table Clamp, then below are the steps:*

- Attach Clamp onto the table, tighten provided knob to secure, then attach handle onto the Clamp. It helps achieving balance in just seconds and saves your valuable time.



## YOUR FLYCAM HD-3000 HANDHELD VIDEO STABILIZER ALL DRESSED UP AND READY TO GO!



(SHOWN WITH OPTIONAL ACCESSORIES)

**Warranty:** We offer one year warranty for our products from date of purchase. Within this period of time, we will repair it without charge for labor or parts. Warranty doesn't cover transportation costs nor does it cover a product subjected to misuse or accidental damage. Warranty repairs are subjected to inspection and evaluation by us.

**Liability:** We are not liable for damage caused by products that we do not supply or from mishandling in transit, accident, misuse, neglect, lack of care of the product, or service by anyone other than our company.

**Contact Us:** In case of any kind of dissatisfaction, please Contact us immediately and we promise our utmost support and care until you use our product.