GLIDECAM INDUSTRIES, INC.®

GLIDECAM

Dean Graham

SIGNATURE SERIES

MANUAL

Set-up and Operations Guide

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Customer Service Line 1-781-585-7900

Manufactured in the U.S.A.

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#I INTRODUCTION

Congratulations on your purchase of a **Glidecam Devin Graham Signature Series**

The amazingly advanced and totally re-engineered **Devin Graham Signature Series** from **Glidecam Industries** represents the top of the line in hand-held camera stabilization.

The lightweight and state-of-the-art **Glidecam Devin Graham Signature Series** hand-held camera Stabilizer will transform your hard to watch shaky camera footage into hypnotically smooth, professional footage.

The **Glidecam Devin Graham Signature Series** offers advanced features and a degree of sophistication never before seen in a line of hand-held camera stabilizers.

With the **Glidecam Devin Graham Signature Series Hand-Held Stabilizers,** your camcorder seems to float; always balanced and isolated from the undesirable motions of your hands. Now you are free to move with your camera: panning, tilting, booming, and running without any camera instability or shake.

The **Glidecam Devin Graham Signature Series** works so well that it allows you to shoot incredibly smooth and graceful shots even while going to extremes, like running up and down stairs, or traveling over rugged terrain. When it comes to normal shooting, like walking or moving the camera slowly around someone, the results are equally magical.

Each **Devin Graham Signature Series Stabilizer's** offset, foam cushioned, handle grip is attached to a free floating, three axis gimbal. This allows your hands to move up and down and side-to-side, thereby, isolating your hand's unwanted motions from the camera. This up and down movement alleviates the bouncing, pogo-type action often associated with our competitor's system. This is because their handle is not designed to have the beneficial ability to move up and down. This design feature, coupled with the over all higher inertia of the **Devin Graham Signature Series systems**, produces a superior stabilization when compared with our competition.

The unique and proprietary precision, three-axis gimbal, incorporates several adjustable axis convergence controls. This allows all three axes to intersect for proper operational alignment.

A camera-mounting platform with a dovetail quick-release, no-tools camera plate, allows you to quickly attach or remove your camera. Ergonomic control knobs allow quick, precise adjustments of the top stage's back and forth and side-to-side movement. These controls allow you to adjust the camera's horizontal balance.

By varying the amount of counter weight on the base platform, by changing the length of the no-tool telescoping Central Post, or by moving the adjustable gimbal, you adjust the camera's vertical balance. When balanced properly the camera floats and you are ready to move into action.

The **Glidecam Devin Graham Signature Series Stabilizers** offer unparalleled controllability and ease of use, with their unique, rigid, yet dynamically adjustable, control and weight distribution surfaces. Setting up, controlling, and adjusting the system's balance is now quick and precise.

A unique and proprietary dynamic base platform can expand or contract. This allows you to easily adjust the system's dynamic balance, or to increase the system rotational pan inertia.

Shot after shot and move after move, the **Glidecam Devin Graham Signature Series Stabilizers** deliver beautifully smooth and professional results. With the Glidecam Devin Graham Signature Series you no longer need a tripod or a dolly. All you need is your creativity, imagination, and innovation.

Glidecam Industries is now becoming the choice of a generation. **Glidecam** makes your decisions concerning stability and movement easy and simple. Simply rely, as so many have and still do, on using a **Glidecam Camera Stabilizer. Glidecam Industries,** bringing two decades of camera stabilization with a wide range of camera stabilizers, each optimized for various camera weights and shooting conditions.

The **Glidecam Devin Graham Signature Series** requires practice and understanding to achieve professional looking results. We highly recommend that the user read this manual thoroughly before setting up and operating the **Devin Graham Signature Series**. Doing so will save you time, and will minimize the risk of damage to your camcorder or the **Glidecam Devin Graham Signature Series**. It is important to perform and follow the Set-up and Operation's procedures in the proper sequence, so as to avoid both frustration and possible accident.

If you have any needs for technical assistance, you can call our Technical Support Line at **1-781-585-7900**, Monday through Friday between the hours of **9:00am** and **5:00pm** Eastern Time.

We're sure that once you have your **Glidecam Devin Graham Signature Series** up and running, you will find years of enjoyment with it.

#2 GLIDECAM DEVIN GRAHAM SIGNATURE SERIES PARTS AND COMPONENTS

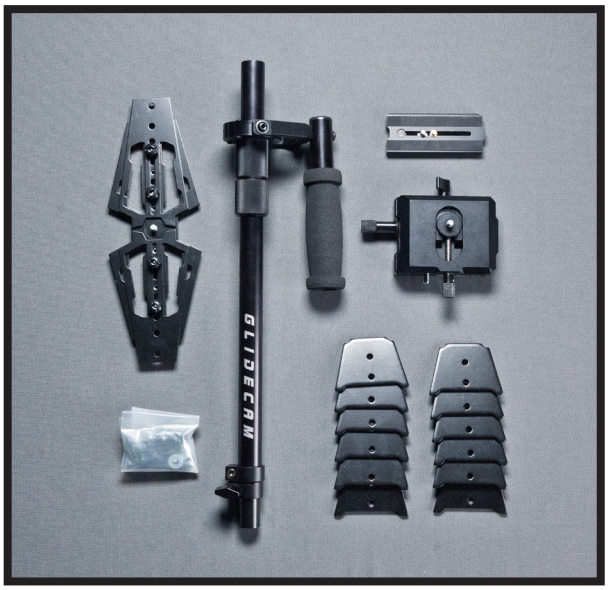

Figure 1

When you unpack your **Glidecam Devin Graham Signature Series** you will see that some Assembly is required. The contents of the **Glidecam Devin Graham Signature Series** box includes the following: **(See Figure 1)**

MANUAL
CENTER POST
DOVETAIL QUICK RELEASE PLATE
CAMERA MOUNTING PLATFORM
EXPANDABLE BASE PLATFORM
TELESCOPING POST
HARDWARE BAG
COUNTER WEIGHTS

NOTE: The TELESCOPING POST comes inserted into the CENTRAL POST when shipped.

Figure 2

This is the **Glidecam Devin Graham Signature Series CENTRAL POST** with attached Gimbal assembly.
(See Figure 2)

WARNING: Do not adjust or tighten the factory settings on the Gimbal, Handle, or Yoke. These parts should remain loose and move freely, for proper operation.

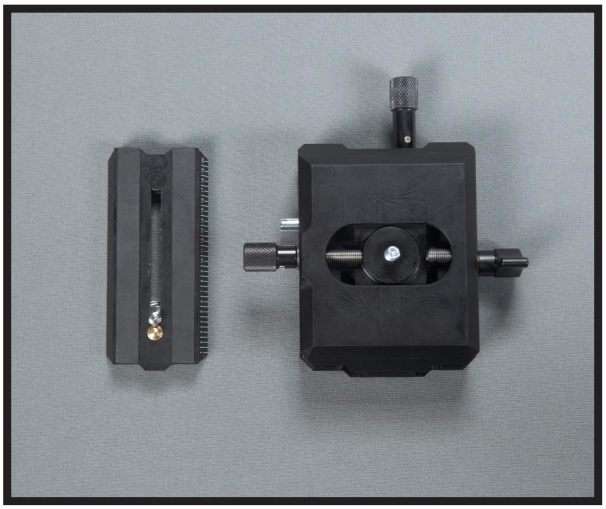

Figure 3

These are the pieces that makeup the **HEAD ASSEMBLY** of the **Glidecam Devin Graham Signature Series**

1) DOVETAIL QUICK RELEASE PLATE

2) CAMERA-MOUNTING PLATFORM
(See Figure 3)

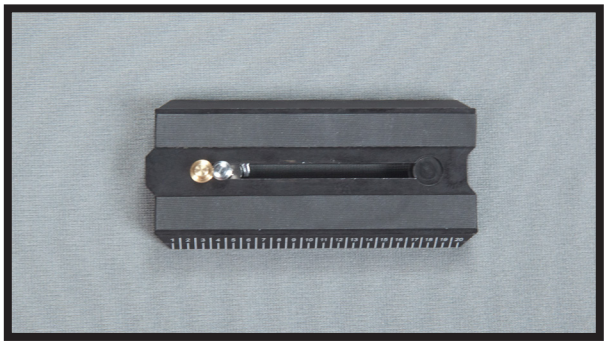

Figure 4

This is the **DOVETAIL QUICK RELEASE PLATE** for the **Glidecam Devin Graham Signature Series** that you will attach to your camera.
(See Figure 4)

(See SECTION 4 Attaching your camera on PAGE 18 for camera and DOVETAIL QUICK RELEASE PLATE mounting)

NOTE: If necessary to remove the ROTATIONAL LOCK or CAMERA MOUNTING SCREW remove the DELRIN INSERT. Make sure and put the DELRIN INSERT back once the ROTATIONAL LOCK or CAMERA MOUNTING SCREW is removed.

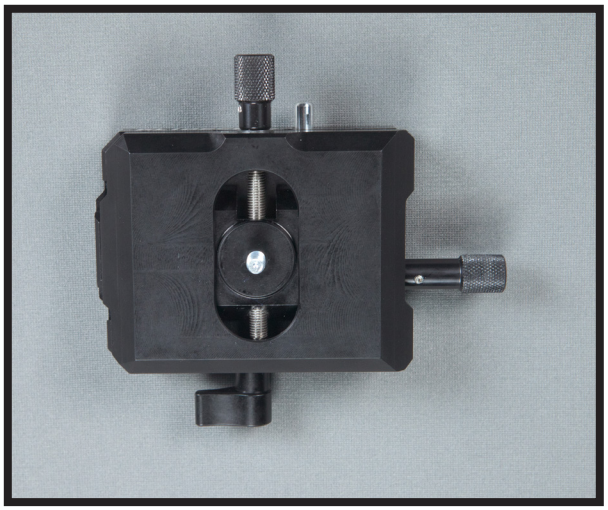

Figure 5

This is the **CAMERA-MOUNTING PLATFORM** with front-to-back and side-to-side movement adjustment knobs.
(See Figure 5)

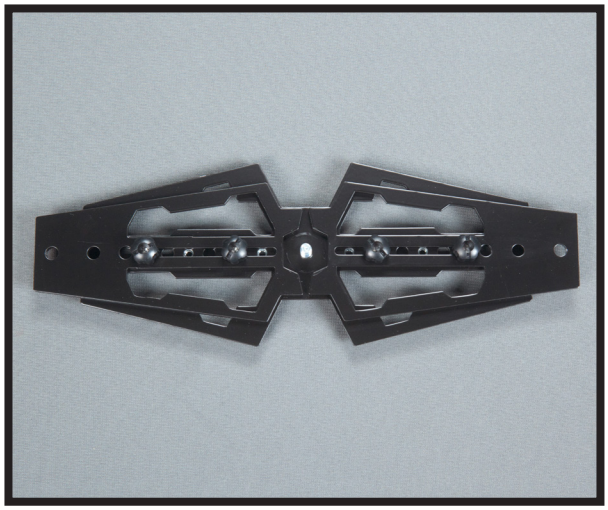

Figure 6

This is the **EXPANDABLE BASE PLATFORM**.
(See Figure 6)

Figure 7

This is the **TELESCOPING POST** removed from the **CENTRAL POST**.
(See Figure 7)

NOTE: There is no need to remove this unless removing your GIMBAL for cleaning. To remove the TELESCOPING POST from your CENTRAL POST, you will need to loosen and remove your TELESCOPING POST CLAMP.

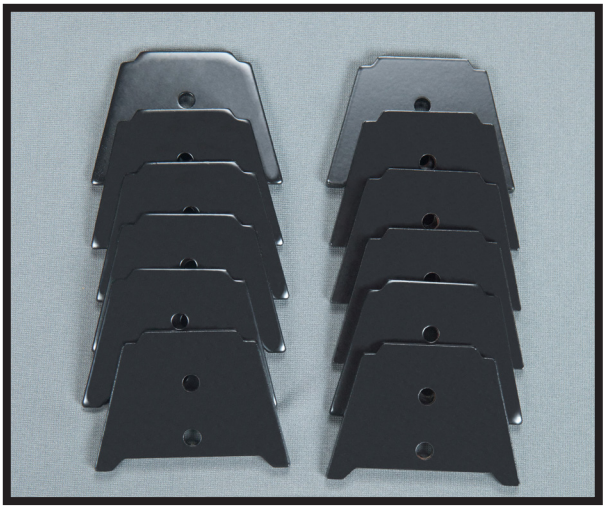

Figure 8

Shown are the **COUNTER WEIGHT PLATES** to be attached to the **EXPANDABLE BASE PLATFORM.**
(See Figure 8)

Figure 9

Shown in the bag is the **HARDWARE** set for the **Glidecam Devin Graham Signature Series.**
(See Figure 9)

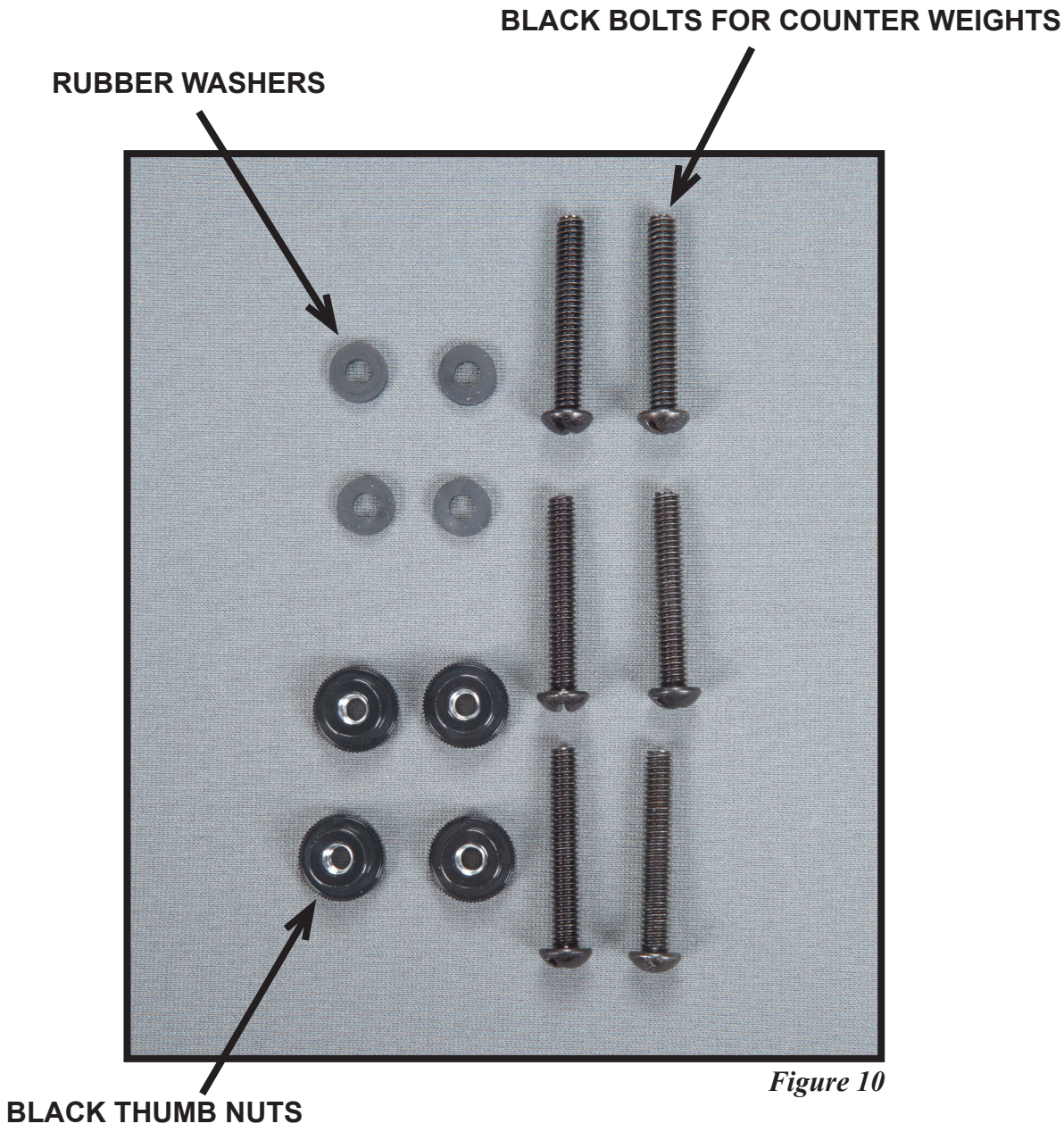
BLACK BOLTS FOR COUNTER WEIGHTS
RUBBER WASHERS
BLACK THUMB NUTS

Figure 10

#3 ASSEMBLING YOUR GLIDECAM DEVIN GRAHAM SIGNATURE SERIES

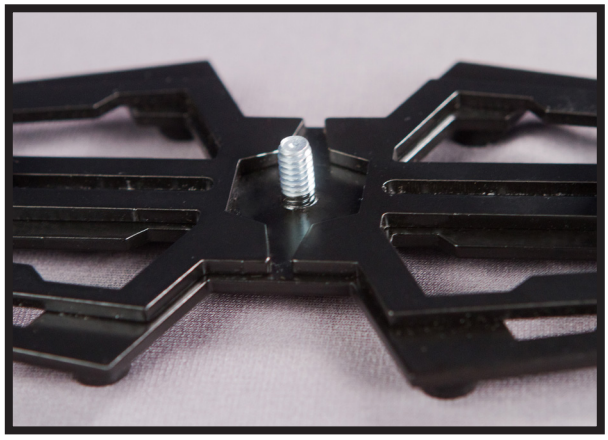

Figure 11

First place the **EXPANDABLE BASE PLATFORM** firmly on a level surface.
(See Figure 11)

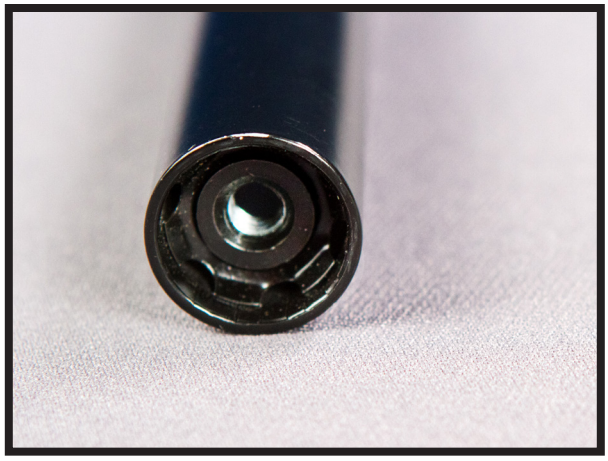

Figure 12

Next find the **TELESCOPING POST** and locate the **THREADED INSERT** which can be found in the bottom of the **TELESCOPING POST**.
(See Figure 12)

Figure 13

Connect the **TELESCOPING POST** to the **EXPANDABLE BASE PLATFORM** by tightly screwing the **TELESCOPING POST** firmly on to the **EXPANDABLE BASE PLATFORM**.
(See Figure 13)

NOTE: Overtightening may cause damage to both the THREADED INSERT located inside the TELESCOPING POST and the EXPANDABLE BASE PLATFORM.

Figure 14

At this point the first step of your **Glidecam Devin Graham Signature Series** assembly should be complete with the **TELESCOPING POST** securely fastened to the **EXPANDABLE BASE PLATFORM**.
(See Figure 14)

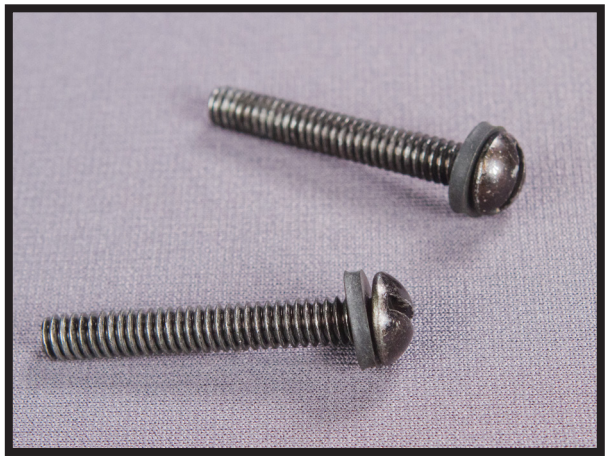

Figure 15

Now find the four **BLACK BOLTS** and gently slip the **RUBBER WASHERS** onto the bolts.
(See Figure 15)

NOTE: Repeat this step for all four BLACK BOLTS.

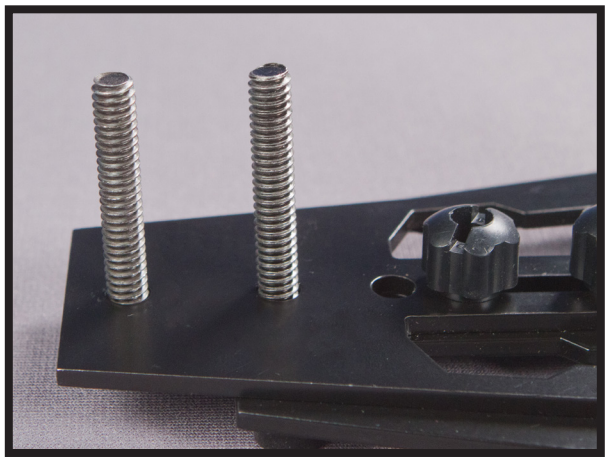

Figure 16

Now insert all four of the **BLACK BOLTS** with **RUBBER WASHERS** into the four slots located on either end of the **EXPANDABLE BASE PLATFORM**.
(See Figure 16)

Figure 17

At this point the second step of your **Glidecam Devin Graham Signature Series** assembly should be complete, with all four **BLACK BOLT** and **RUBBER WASHER** combinations protruding through the **EXPANDABLE BASE PLATFORM**.
(See Figure 17)

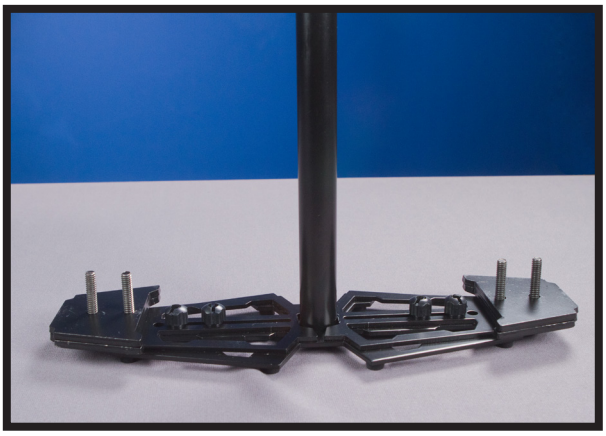

Figure 18

Next, take the **COUNTER WEIGHT PLATES** and slide them down on to the **BLACK BOLTS** until they are resting on the **EXPANDABLE BASE PLATFORM.** **(See Figure 18)**

NOTE: The holes in the weights match the placement of the bolts.

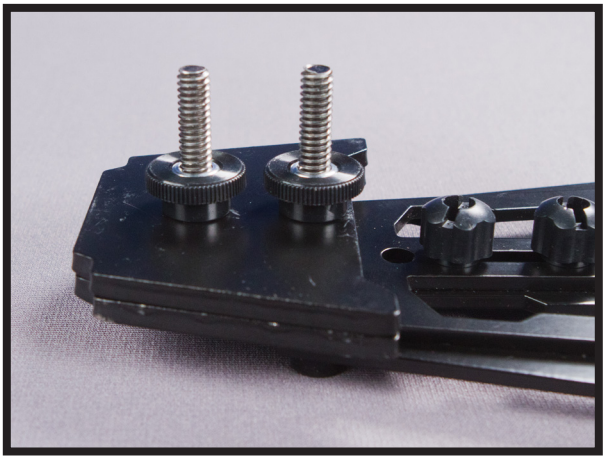

Figure 19

Secure the **COUNTER WEIGHT PLATES** by using the **BLACK THUMB NUTS** to prevent weight movement.
(See Figure 19)

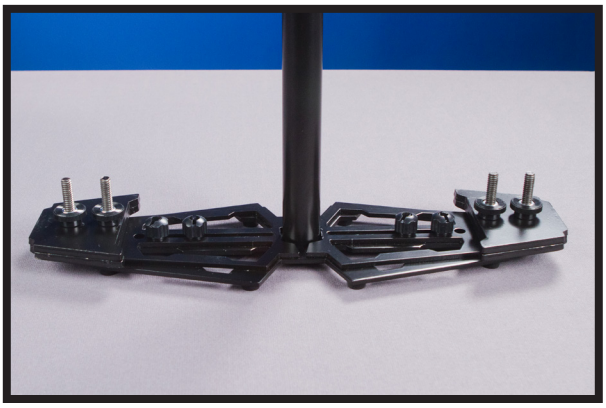

Figure 20

Now, both **COUNTER WEIGHT PLATE** stacks should now be secured to the **EXPANDABLE BASE PLATFORM** with the **BLACK THUMB NUTS**.
(See Figure 20)

NOTE: Expanding the EXPANDABLE BASE PLATFORM length and moving the COUNTER WEIGHT PLATES apart will create a pan inertia and this will slow down the rotation of the sled and reduce the side-to-side movement while moving.

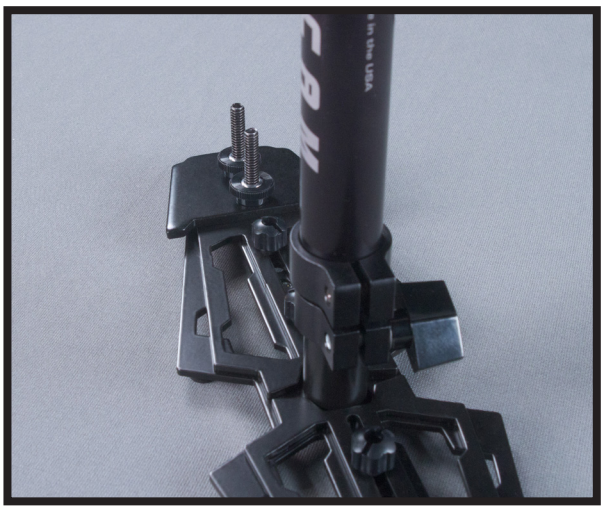

Figure 21

The **TELESCOPING CLAMP ADJUSTMENT KNOB** should be aligned with the center of the **EXPANDABLE BASE PLATFORM**. To align the **TELESCOPING CLAMP ADJUSTMENT KNOB** simply rotate the entire **CENTRAL POST** into the correct position, and tighten the **ADJUSTMENT KNOB**. Also leave about one inch of the **TELESCOPING POST** showing below the **TELESCOPING CLAMP**. Having the **TELESCOPING CLAMP ADJUSTMENT KNOB** aligned correctly, although not technically needed to make your **Glidecam Devin Graham Signature Series** function correctly, does make it easier to reach the knob later when you use it.
(See Figure 21)

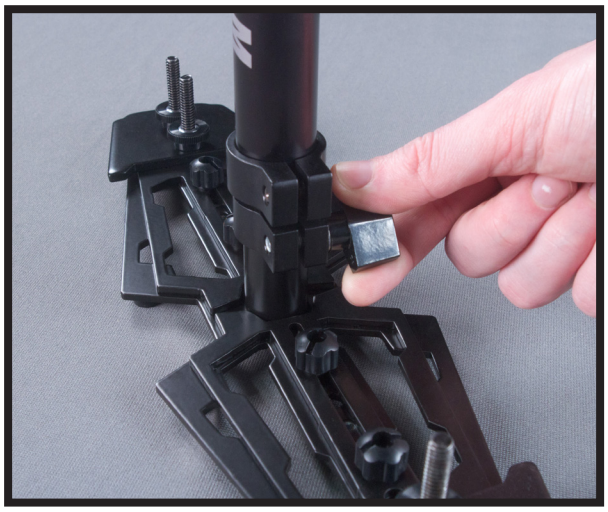

Figure 22

Securely tighten the **ADJUSTMENT KNOB** on the **TELESCOPING CLAMP** by rotating the knob clockwise.
(See Figure 22)

NOTE: The ADJUSTMENT KNOB should only be tightened by hand.

WARNING: Do not over tighten the ADJUSTMENT KNOB as it could cause thread stripping.

Figure 23

At this point, your **Glidecam Devin Graham Signature Series** should have the **CENTRAL POST** and **TELESCOPING POST** aligned correctly on the **EXPANDABLE BASE PLATFORM** assembly.
(See Figure 23)

NOTE: The amount of COUNTER WEIGHTS will vary depending on your camera weight. Don't worry about this too much, for later, you will set the number of COUNTER WEIGHTS to the correct amount required for your specific camera.

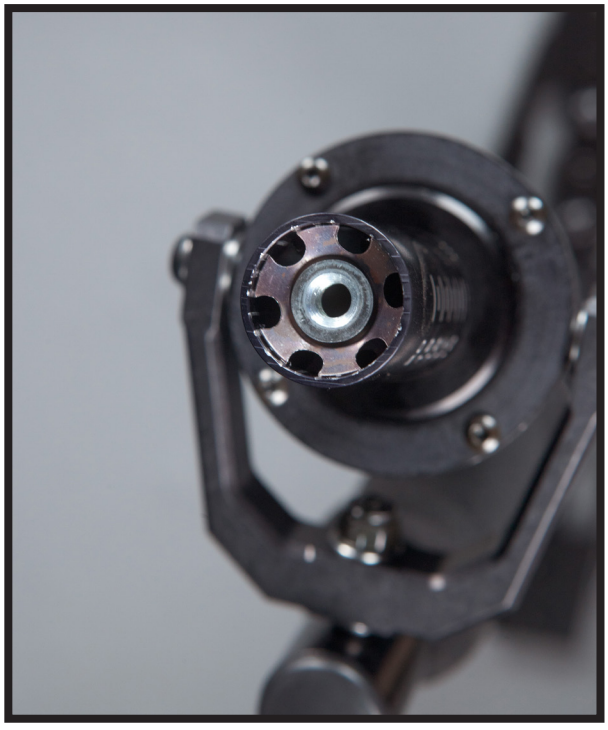

Figure 24

Next, locate the **THREADED INSERT** which can be found in the top of the **CENTRAL POST**.
(See Figure 24)

Figure 25

Rotate, and screw the **CAMERA MOUNTING PLATFORM** into the **THREADED INSERT** in the top of the **CENTRAL POST**.
(See Figure 25)

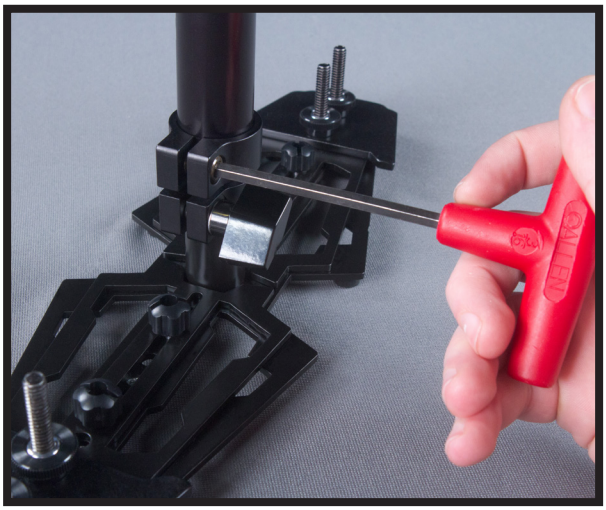

Figure 26

There are two ways to create this correct alignment. The first and easiest is to loosen the **ADJUSTMENT KNOB** on the **TELESCOPING CLAMP** and rotate the parts until correctly aligned, then simply re-tighten the **ADJUSTMENT KNOB**.
(See Figure 26)

NOTE: Remember to leave at least one inch of the TELESCOPING POST showing below the TELESCOPING CLAMP.

Figure 27

The second method to correctly align the parts is to use an Allen Wrench to loosen the "Screw" on the top part **(See Figure 26)** of the **TELESCOPING CLAMP** until you can rotate the parts so they are correctly aligned, then simply re-tighten the screw.
(See Figure 27)

NOTE: The second method of alignment is better because it keeps the TELESCOPING CLAMP ADJUSTMENT KNOB aligned correctly (See Figure 21). Having the TELESCOPING CLAMP ADJUSTMENT KNOB aligned correctly, although not technically needed to make your Glidecam Devin Graham Signature Series function correctly, does make it easier to reach the TELESCOPING CLAMP ADJUSTMENT KNOB later when in use.

#4 ATTACH YOUR CAMERA TO THE DEVIN GRAHAM SIGNATURE SERIES

Figure 28

Now it is time to attach your camera to the **Glidecam Devin Graham Signature Series's DOVETAIL QUICK RELEASE PLATE**.
(See Figure 28)

Figure 29

First, find the **THREADED INSERT** on the bottom of your camera.
(See Figure 29)

Figure 30

Now, remove the **DOVETAIL QUICK RELEASE PLATE** from the **CAMERA MOUNTING PLATFORM**. First, turn the **DOVETAIL QUICK RELEASE PLATE LOCK** counter clockwise until the lock is loose. Next, push in the **DOVETAIL SAFETY PIN** and hold it in. Your **DOVETAIL QUICK RELEASE PLATE** should now be able to slide back out of the **CAMERA MOUNTING PLATFORM**.
(See Figure 30)

NOTE: Only loosen the DOVETAIL QUICK RELEASE PLATE LOCK. Overturning the DOVETAIL QUICK RELEASE PLATE LOCK will remove it from the CAMERA MOUNTING PLATFORM.

Figure 31

Now preferably sit down in a chair and place your camera (base side up) in your lap. Then place and center the **DOVETAIL QUICK RELEASE PLATE** on the back side of your camera. The back of the **DOVETAIL QUICK RELEASE PLATE** has an inwards bevel which should be facing the back of your camera while the front of the **DOVETAIL QUICK RELEASE PLATE** has an outwards bevel which should be facing the lens.
(See Figure 31)

Make sure the **DOVETAIL QUICK RELEASE PLATE** is in alignment, square with the bottom of your camera. **(See Figure 31)**

NOTE: If you have a video camcorder or film camera that is larger than the one used in this manual, then you might wish to first find the true front to back center of gravity of your camera by rolling the base of your camera on a pen until it is balanced upon the pen. There are guide scale markings on the DOVETAIL QUICK RELEASE PLATE so you can remember for later. (See Figure 34)

Figure 32

Now use the **CAMERA MOUNTING SCREW** to attach the **DOVETAIL QUICK RELEASE PLATE** to your camera.
(See Figure 32)

NOTE: The CAMERA MOUNTING SCREW comes with a no-tools required adapter. To ensure maximum tightness, it is suggested you still tighten the CAMERA MOUNTING SCREW with a screwdriver (not provided).

WARNING: Do not over tighten this screw. Over tightening could break the THREADED INSERT on your camera.

Figure 33

If all is correct, the **DOVETAIL QUICK RELEASE PLATE** should now be securely fastened to your camera.
(See Figure 33)

NOTE: If you can easily rotate the DOVETAIL QUICK RELEASE PLATE on the base of your camera, even though you have adequately tightened the CAMERA MOUNTING SCREW, and you do not feel comfortable tightening the CAMERA MOUNTING SCREW any more, then you should think about using some sort of a flexible GASKET between your camera base and QUICK RELEASE PLATE. You could use rubber tape, or a square flat piece of rubber (for example, creating one by cutting up an old rubber dishwashing glove)

Figure 34

To find your camera's center of gravity, place an ordinary pen on the table. Now, place your **DOVETAIL QUICK RELEASE PLATE** directly on the pen and let it rest gently. Move the plate (not the pen) back and forth until it is not falling forwards or backwards. Now that you have found the center of gravity, make note of the mark on the **DOVETAIL QUICK RELEASE PLATE GUIDE SCALE MARKINGS**. You will need it later. **(See Figure 34)**

Figure 35

Now, slide the **DOVETAIL QUICK RELEASE PLATE** into the **CAMERA MOUNTING PLATFORM** while holding down the **DOVETAIL SAFETY PIN. (See Figure 35)**

Figure 36

The **CAMERA MOUNTING PLATFORM** comes with a beveled edge **(See Figure 36).** Line up the beveled edge with your camera's center of gravity mark found in **(See Figure 34).** Release the **DOVETAIL SAFETY PIN** when finished.

Figure 37

Now that your **DOVETAIL QUICK RELEASE PLATE** is in the correct position, make sure it is locked with the **DOVETAIL QUICK RELEASE PLATE LOCK** located on the side of the **CAMERA MOUNTING PLATFORM**.

NOTE: If your camera is in the way of the DOVETAIL QUICK RELEASE PLATE LOCK, you can pull the DOVETAIL QUICK RELEASE PLATE LOCK away from the CAMERA MOUNTING PLATFORM and move it's position so it is easier to tighten/loosen. (See Figure 37).

#5 BALANCING YOUR GLIDECAM DEVIN GRAHAM SIGNATURE SERIES

Figure 38

Before you begin the balancing process, check the following and make sure they have been done:

1. Camera is securely attached to the **DOVETAIL QUICK RELEASE PLATE** and the **DOVETAIL QUICK RELEASE LOCK** is tight.
2. The Lens Cap has been removed.
3. Camera Battery and Recording Media are installed.
4. Flip out LCD into it's operating position. **(See Figure 38)**
5. Telescoping clamp has been tightened and weights have been added.
6. The top of the **ADJUSTABLE GIMBAL** is located between the 16 and 18 markings on the **TELESCOPING POST**.

Figure 39

BALANCING THE HORIZONTAL AXIS

Now that your **Glidecam Devin Graham Signature Series** is setup and assembled properly, you can test and setup the horizontal balance of the system. The objective in achieving correct horizontal balance for the **Devin Graham Signature Series** is to allow the camera to remain level during operation, given that you are not applying either a pan, tilt, or roll type hand pressure to the **Devin Graham Signature Series**. In other words, if the **Devin Graham Signature Series** is horizontally balanced correctly, then the camera will remain level, and the **CENTRAL POST** will remain vertical, unless you intentionally position the **Devin Graham Signature Series** otherwise. Also, if the **Devin Graham Signature Series** is horizontally balanced correctly it will always return to a level and vertical position after you release any pan, tilt, or roll pressure on the **CENTRAL POST**.
(See Figure 39)

Figure 40

When testing for correct horizontal balance you need to make sure that you pick up your **Devin Graham Signature Series** from a flat surface (a table for example) and that you let the **Devin Graham Signature Series** hang freely as you hold it. **(See Figure 39)** If the **Devin Graham Signature Series** is balanced correctly, on it's horizontal axis, then it will be level with the **CENTRAL POST** in a virtually perfect vertical position.
(See Figure 39)

Most likely your **Devin Graham Signature Series** will not be balanced **(See Figure 40)** and so you will have to adjust it until it is balanced.

WARNING: If you do not have enough COUNTER WEIGHT on the BASE PLATFORM at this time, the entire Glidecam will flip completely upside down. If this happens add more COUNTER WEIGHT below until during this test the Glidecam remains right side up.

The best way of adjusting the horizontal balance is to move the center of gravity of the camera. This can be accomplished by either #1) re-bolting the camera to a different area of the **DOVETAIL QUICK RELEASE PLATE**, or by #2) adjusting the position of the **DOVETAIL QUICK RELEASE PLATE** and **CAMERA MOUNTING PLATE** either front-to-back or side-to-side with the camera on it. Method #2 is the preferred method.

If the **Glidecam Devin Graham Signature Series** tilts to the front **(See Figure 40)**, then you will have to turn the **ADJUSTMENT KNOB** counter clockwise. If the **Glidecam Devin Graham Signature Series** still tilts to the front, then move the **DOVETAIL QUICK RELEASE PLATE** more to the back by turning the adjustment knob. If the **Glidecam Devin Graham Signature Series** is tilting to the back, then move the **DOVETAIL QUICK RELEASE PLATE** to the front by turning the **ADJUSTMENT KNOB** clockwise. Always secure the **DOVETAIL QUICK RELEASE PLATE LOCK** after any adjustments. If you cannot get the front to back axis balanced with this method then try remounting your camera to a different position on the **DOVETAIL QUICK RELEASE PLATE**.

Figure 41

If the **Glidecam Devin Graham Signature Series** leans to the right, then you will have to turn the side-to-side **ADJUSTMENT KNOB** counterclockwise. If the **Glidecam Devin Graham Signature Series** leans to the left from the operator's point of view **(See Figure 41)** then move it to the right by turning the side to side **ADJUSTMENT KNOB** clockwise. Always secure and firmly tighten the **DOVETAIL QUICK RELEASE PLATE LOCK** after any adjustment. The side-to-side horizontal axis is shown correctly adjusted. **(See Figure 42)**

After adjusting the side to side balance as mentioned above, you might have to go back and readjust the front to back balance, to obtain a truly fine balance of the whole system. You can use your eyes to judge for correct horizontal balance, or you can use a small and lightweight bubble level, (not included) to ensure the **Glidecam Devin Graham Signature Series** has correct horizontal balance.

Figure 42

NOTE: The Horizontal Balance of the Glidecam Devin Graham Signature Series becomes less sensitive as the Glidecam Devin Graham Signature Series becomes increasingly bottom heavy, and conversely, the horizontal balance becomes very sensitive, as the Devin Graham Signature Series progresses towards correct vertical balance.

Figure 43

Figure 44

Figure 45

BALANCING THE VERTICAL AXIS

Now that your **Glidecam Devin Graham Signature Series** is horizontally balanced, it's vertical axis can now be tested and properly balanced. The objective in obtaining correct vertical balance of the **Devin Graham Signature Series** is to allow the camera and **Devin Graham Signature Series** to remain level during operation, given you are not applying either a pan, tilt, or roll type of hand pressure to the **Devin Graham Signature Series**, and most importantly, that the **Devin Graham Signature Series**'s **CENTRAL POST** remains vertical, even if you are walking, running, or turning, while the **Glidecam Devin Graham Signature Series** is in operation. In other words, if the **Devin Graham Signature Series** is vertically balanced correctly, then the camera will remain level, and the **CENTRAL POST** will remain vertical, unless you intentionally position the **Devin Graham Signature Series** otherwise. If the **Devin Graham Signature Series** is not vertically balanced properly, then it will swing about and pendulum when you walk, run, or turn.

Again, if the vertical balance is set correctly, you will be able to move about quickly, as well as start or stop moving suddenly, and still have the **CENTRAL POST** remain vertical. To adjust the **Glidecam Devin Graham Signature Series's** vertical balance, you can either add, or subtract **COUNTER WEIGHTS** from the **BASE PLATFORM**, telescope the **BASE PLATFORM** in or out, or move the **ADJUSTABLE GIMBAL** up or down by turning the **ADJUSTABLE GIMBAL** top counter-clockwise and the **ADJUSTABLE GIMBAL** bottom clockwise to loosen. **(See Figure 45)** Reverse to tighten. After you have approximately the right amount of weight on the base, you can then fine tune the **VERTICAL BALANCE** by using the **TELESCOPING POST**.

NOTE: It is important not to over tighten the ADJUSTABLE GIMBAL as it can cause stripping.

Figure 46

This photo shows the **Glidecam Devin Graham Signature Series** swinging before the illustrated vertical line. The **Devin Graham Signature Series** will pendulum or swing past this line during the "**SLED ARC TEST**", and the **Devin Graham Signature Series** will swing back and forth over a dozen times if left to swing, but it is only the time the **Devin Graham Signature Series**'s first swing in an arc from horizontal to vertical that you need to analyze. After you have counted the time it takes for it to go from horizontal until it passes vertical once, then simply stop the **Devin Graham Signature Series** from swinging, then, either put the **Devin Graham Signature Series** down, or make adjustments to perform the test again.

NOTE: Adding more weight, telescoping out the base, or moving the adjustable gimbal up, will speed up the DROP TIME. Removing weight, telescoping the base in, or moving the adjustable gimbal down, will slow the DROP TIME.

To test the balance of the vertical axis, perform what is called the **SLED ARC TEST**. To perform the **SLED ARC TEST**, simply hold the **Glidecam Devin Graham Signature Series** by it's handle and then grab a hold of the back end of the **Devin Graham Signature Series's BASE PLATFORM**, then pull the BASE up and back until the **Devin Graham Signature Series's CENTRAL POST** is horizontal and motionless, **(See figure 43)** then gently let go of the **BASE PLATFORM** and count how many seconds it takes for the **Devin Graham Signature Series** to go from the horizontal position it was just in **(See Figure 44)** to the moment it first passes the vertical.

If the **Glidecam Devin Graham Signature Series** is vertically balanced properly, then it should take about **TWO** to **THREE** seconds for this to happen. **(This is called DROP TIME)** Count your seconds with the words "one thousand one, one thousand two, etc for accuracy. Adjust the amount of **COUNTER WEIGHTS** used on the **BASE PLATFORM**, then adjust the length of the **TELESCOPING POST** up or down, or move the **ADJUSTABLE GIMBAL** up or down until it only takes **TWO** to **THREE** seconds for the **Devin Graham Signature Series CENTRAL POST** to first swing in an arc from horizontal to vertical.

NOTE: The amount of DROP TIME finally set is ultimately up to you to decide. Different DROP TIMES change the vertical balance, and therefore, change the results obtainable when shooting.

Another way to check for correct vertical balance, known as the "**MOVEMENT TEST**", is to walk forward with the **Glidecam Devin Graham Signature Series** and then stop suddenly. If the **Devin Graham Signature Series BASE PLATFORM** swings, or pendulums away from you, or upright vertical position it was just in that moment you stopped, then you know the **Devin Graham Signature Series** is not balanced correctly. Adjust the amount of **COUNTER WEIGHTS** used on the **BASE PLATFORM,** or adjust the length of the **TELESCOPING POST** up or down, or move the **ADJUSTABLE GIMBAL** up or down until the **Devin Graham Signature Series** remains vertical during the "**MOVEMENT TEST**".

This "**MOVEMENT TEST**" also applies to running or turning around quickly with the **Devin Graham Signature Series**. Again, if the **Devin Graham Signature Series** is balanced properly, then any body movement, like running or turning quickly, will not effect the basic upright, vertical position of the **Devin Graham Signature Series.**

#6 HANDLING YOUR GLIDCAM DEVIN GRAHAM SIGNATURE SERIES

Figure 47

Figure 48

Figure 49

Before you operate and film with your **Glidecam Devin Graham Signature Series**, you will need to know how to handle the equipment. When handling your **Devin Graham Signature Series** you will use one hand to hold onto the handle and the other hand to gently guide the camera in the direction you wish to shoot. We call the hand that holds the handle, the "**HOLDING HAND**" and the hand that aims the camera for tilting and panning, the "**GUIDING HAND**".

When holding the handle of your **Glidecam Devin Graham Signature Series** you will need to: **1)** hold it firmly, and **2)** hold it either in the middle or the bottom of the handle. Which position you choose will depend on the kind of shot you are shooting. For normal shooting, hold the handle near the middle. **(See Figure 47)** For shots that require aiming the camera either up or down or sideways, hold the handle firmly at the bottom. This will allow the "**YOKE**" part of the **GIMBAL** to twist around without hitting your hands or your knuckles.

When you handle your **Glidecam Devin Graham Signature Series** you will want to use your "**GUIDING HAND**" to gently hold onto either the point just below the "**YOKE**" and bearing assembly, **(See Figure 48)** or area down by the **BASE PLATFORM (See Figure 49)**. These two areas allow for easy control of the **Devin Graham Signature Series** when in use. Which position you choose will depend on the kind of shot you are shooting.

For normal shooting hold the **Glidecam Devin Graham Signature Series** at the point just below the "**YOKE**" and bearing assembly. **(See Figure 48)** This will allow you to subtly aim the camera without disturbing the camera's upright position. It is this position that will allow you the smoothest shots when walking or running with the **Devin Graham Signature Series** during normal shooting.

NOTE: Make sure that your "GUIDING HAND" and "HOLDING HAND" do not touch either the bearing assembly or the "YOKE" during shooting. For unconventional shots, like ones that require aiming the camera either straight up or down, or sideways, hold onto the Devin Graham Signature Series on the lower part of the post, or down near the weight. (See Figure 49) This will allow your "GUIDING HAND" to have a greater degree of control over the Devin Graham Signature Series while shooting erratic shots.

#7 OPERATING YOUR GLIDECAM DEVIN GRAHAM SIGNATURE SERIES

Figure 50

The **Glidecam Devin Graham Signature Series** is designed to work correctly only when operated with two hands. **(See Figures 48 and 50)** If you try to operate the unit with just your "**HOLDING HAND**" **(See Figure 47)**, the camera will most likely drift away from it's original position. Without your "**GUIDING HAND**" in place, you will be unable to control the direction of the camera.

Figure 51

When operating the **Glidecam Devin Graham Signature Series** you will not be able to put your eye right up to the eye cup on the viewfinder. For doing so will cause the unit to be restricted in it's ability to stabilize and eliminate camera shake. Even though you cannot place your eye directly up to the camera viewfinder, you can either use the Camera's built-in **LCD MONITOR** or attach an external **LCD MONITOR (not included)** directly to the **BASE PLATFORM** of the **Devin Graham Signature Series**. A **1/4" Monitor "MOUNTING HOLE"** is located at both the front and back edges of the **BASE PLATFORM**. **(See Figure 51)**

NOTE: You can also attach an external LCD MONITOR to the accessory shoe on the top of your Camcorder. We believe that better results are obtained when you attach the Monitor to the Devin Graham Signature Series's base, (See Figure 51) because this way you generally have to look slightly down to see the Monitor. In doing so, your feet are more visible to your peripheral vision. This makes negotiating obstacles with the Devin Graham Signature Series safer.

Figure 52

NOTE: Figures 52 and 53 show the Glidecam Devin Graham Signature Series being used in different ways.

Operating your **Glidecam Devin Graham Signature Series** for extended periods of time can easily tire your "**HOLDING HAND**". If fatigue sets in while shooting, you can try operating the **Glidecam Devin Graham Signature Series** with your other hand. You can also rest for a while by placing the unit upright on a level surface, docking the sled (if using the HD-Series Docking Bracket), or by laying it down on the ground.

Figure 53

NOTE: Glidecam Industries also sells accessories for the Glidecam Devin Graham Signature Series that can help you use the Devin Graham Signature Series for extended periods of time. Call us, or one of our authorized dealers, or visit our website at Glidecam. com on the internet to find out more. The Glidecam Smooth Shooter, Glidecam X-10, and the Glidecam Forearm Brace make excellent support accessories for the Devin Graham Signature Series.

When handling and operating your **Glidecam Devin Graham Signature Series**, always avoid violent, jerking arm, and/or body movements. Doing so could cause damage to the unit, or cause your camera to pull loose from the **DOVETAIL QUICK RELEASE PLATE**.

The **Glidecam Devin Graham Signature Series** is water resistant. **The Devin Graham Signature Series** does not work underwater, nor is it waterproof **(meaning the bearings and of course your camera)**, so avoid direct exposure to rain or water spray. Also, the bearings are not sand proof, so avoid getting dirt or sand into them. **(See bearing maintenance section)**

Figure 54

Figure 56

NOTE: Figures 54 through 56 show the Glidecam Devin Graham Signature Series being used in low-mode operation.

NOTE: Figure 55 shows the DSLR Low Mode Mount (not included). Please visit our website at Glidecam.com to learn more.

NOTE: Figure 56 shows the Low Mode FX Package (not included). Please visit our website at Glidecam.com to learn more.

Figure 55

#8 IMPROPER TECHNIQUES

Figure 57

When shooting with the **Glidecam Devin Graham Signature Series**, do not grab the **CENTRAL POST**. **(See Figure 57)** This defeats the purpose and isolation that the **THREE AXIS GIMBAL** provides. Instead, handle your **Glidecam Devin Graham Signature Series**.
(See Figures 48 and 50)

Figure 58

Do not allow the handle of the **Glidecam Devin Graham Signature Series** to come in contact with the **CAMERA MOUNTING PLATFORM**. **(See Figure 58)** If the handle comes into contact with the **CAMERA MOUNTING PLATFORM,** it will limit your range of motion, and will result in "jerky", and unpleasant footage. Instead, move the **ADJUSTABLE GIMBAL** down, add more **COUNTER WEIGHTS,** or move the **TELESCOPING POST** out from the **CENTRAL POST**.

#9 SHOOTING TIPS

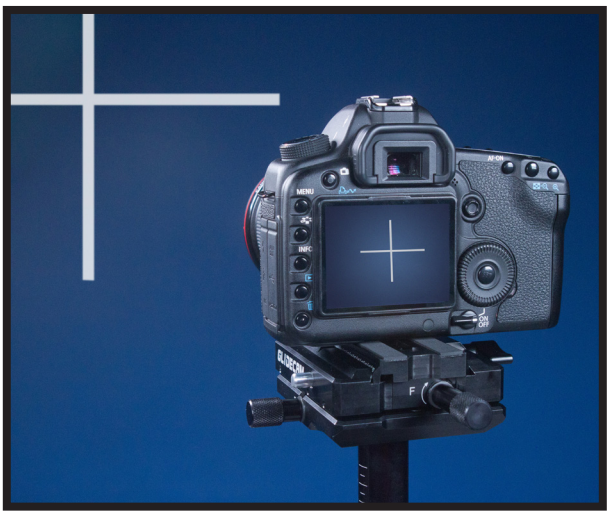

Figure 60

Use of a Wide Angle Lens Converter

If you have a common consumer Camcorder you will probably discover that the widest focal length setting on it's lens is not very wide. You might find that this wide setting is not adequate enough to give you the look produced by professional Hollywood dollies, cranes, and stabilizers. To achieve this kind of look you might have to place a WIDE ANGLE LENS CONVERTER (not included) on the front of your existing camcorder lens. We highly recommend that you use one on your camcorder when shooting

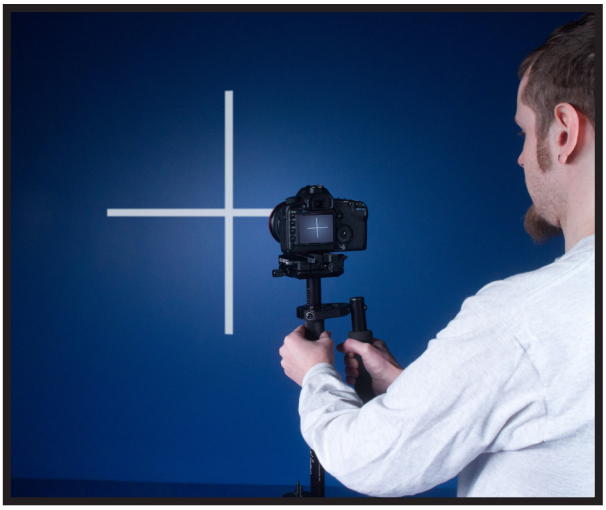

Figure 61

Walking the Line

This is a training exercise that is designed to help operate your **Glidecam Devin Graham Signature Series** more accurately. Using masking tape, camera or gaffer's tape, create a cross mark on a flat or even wall **(See Figure 61)**. This cross mark will be used for framing purposes. Now, on the floor leading up to the cross mark, tape a straight line, about 10 to 20 feet long. The idea behind this exercise is to walk the line that you have taped on the floor, while keeping the cross mark centered in the **LCD Monitor**. **(See Figure 60)** Practicing this exercise will teach you how to frame a shoot with precision.

#10 OTHER CAMERA ATTACHMENT METHODS

Creating a Gasket: If when attaching your camera to the **DOVETAIL QUICK RELEASE PLATE** you find that the bottom of your camera isn't flat enough to allow a good solid attachment, try making and adding a paper/cloth or rubber gasket to the **DOVETAIL QUICK RELEASE PLATE**. **(Try using a piece of a rubber dish washing glove.)** Simply cut the material to the size of the top of the **DOVETAIL QUICK RELEASE PLATE** and then create a hole in it to allow the **CAMERA MOUNTING BOLT** to fit through it and into the base of your Camcorder.

#11 PROFESSIONAL USAGE

If you are using the **Glidecam Devin Graham Signature Series** to shoot professional looking shots, and you plan on incorporating them into a short movie or some sort of commercial project, we suggest that you plan the shot out in advance. Perhaps, rehearse the move a few times before shooting, and that you have an assistant to help you during complex shots. This will give you optimum results and will make your movies look more professional.

Good luck with your shooting!

#12 MAINTENANCE

Bearing Maintenance: The main bearing on your **Glidecam Devin Graham Signature Series** is attached to the **POSITIONABLE GIMBAL**, about two inches down from the top. If after some period of time, your bearing doesn't turn smoothly, you can oil it lightly with light lubricating oil. If your bearing still doesn't turn smoothly, contact Glidecam Technical Support for further assistance. We recommend that you use very little oil, because this all that is needed. Anything more than a little will end up coming out of the bearing and on to the rest of your **Glidecam Devin Graham Signature Series**. Light lubricating oil may also be used, if needed, on the **YOKE** and **HANDLE BEARINGS**. Be sure to keep the oil away from your camera, and clean up any overspill when done.



Cleaning: Do not use solvents or harsh cleaners of any kind on your **Glidecam Devin Graham Signature Series**. If the unit becomes dirty, use only a cloth or sponge with water to gently rub the unit clean.

Storage: If you're going to store your **Glidecam Devin Graham Signature Series** for a long period of time, then please store the unit upright in a dry or low to normal humidity area whenever possible. If you are unable to find an environment like this, then we suggest you store the unit in an airtight plastic container or bag. Standing the unit upright helps alleviate stress on the system.

#13 WARNING

You should make sure that you're very careful when using your **Glidecam Devin Graham Signature Series** at night or in low light conditions. Do not make the mistake of focusing so much on what you are shooting that you trip and fall over something, or wander into something dangerous like a swimming pool or automobile traffic. Be extra careful when shooting on stairs, uneven terrain, etc. These cautions pertain to daytime shooting as well. Make sure that all children using this product have adult supervision. If you plan on shooting while moving fast, or while moving on uneven terrain, then be sure to wear knee and elbow pads, eye protection, and a helmet.

#14 WARRANTY

For 1 year from the date of shipment, we will repair or replace your **Glidecam Devin Graham Signature Series**, free of charge, in the event of a defect in materials or workmanship (the shipment date appears on your purchase receipt) which occurs during normal use in accordance with the **Glidecam Devin Graham Signature Series** instruction manual. Shipping, packing, and insurance costs to and from the factory are your responsibility. This limited warranty extends only to the original purchaser, and you will need your purchase receipt. This warranty does not cover, by way of example, damage caused by products not supplied by us or damage resulting from mishandling in transit, accident, misuse, vandalism, neglect, modification, lack of reasonable care (or commercial use, including rentals to others) of the **Devin Graham Signature Series** or service by anyone other than us. There are no express warranties except as listed above. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WE ARE NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE UNIT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES. INCLUDING THE WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE 1 YEAR WARRANTY PERIOD.

To obtain service during (or after) the warranty period: Contact **Glidecam Industries Customer Service Department** by calling **1-781-585-7900,** or write to us at: **23 Joseph St.Kingston, MA 02364**, or email us at **Tech@glidecam.com** and explain the problem.

DO NOT SEND THE UNIT TO US WITHOUT FIRST OBTAINING A RETURN AUTHORIZATION NUMBER

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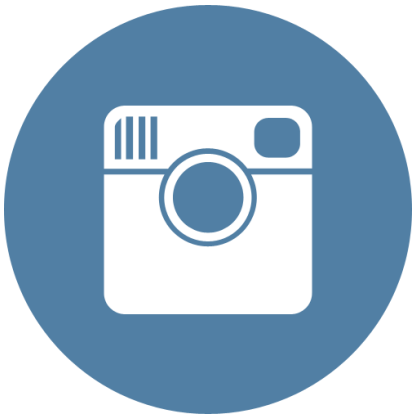
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