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# ***HI-POD***

## **X-Line Product Line**

### **Manual**



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## Congratulations!

**You have just purchased a HI-POD!  
Now you can begin to elevate your  
game.**

**X-Line** – The newest HI-POD is packed with new features. Not only is it taller (31 feet), but lighter as well- base only 30 lbs.

## Introduction: *About Your HI-POD*

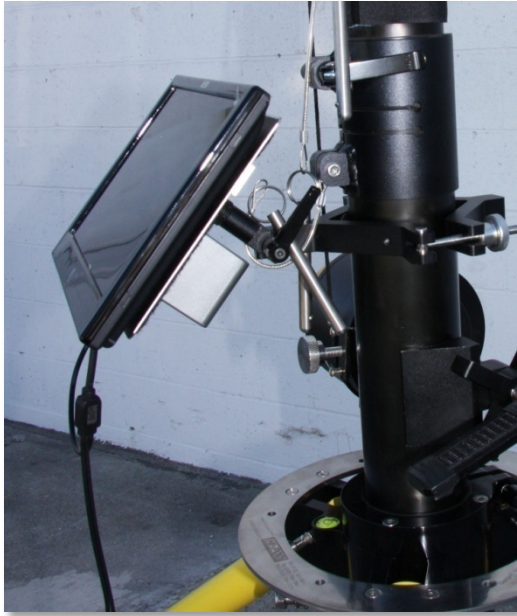
### Travel Case & Packing

The new case design makes it very convenient to use and very easy to pack and keep organized.

Now there are two cases for the HI-POD; one for the base/tubes, and another for your accessories.



## LCD & Bracket



HI-POD now includes a 10" HD LCD. We have created a new bracket to accommodate this new 10" LCD, as well as many different monitors. Not only is the bracket able to easily pivot up and down, but it's versatile enough to be moved up to another stage of tube. This allows very tall users to have more LCD placement flexibility.

## Transporting Your HI-POD

The base has been streamlined in complexity and weight, making it a snap to unpack and go. Each of the 3 legs has a closed lock position and an open locked position. There is also a spring loaded pin to lock them into position. This ensures that the legs stay when it is in use or being transported.

The new wheels are solid and larger, ensuring that they maintain their shape and make transportation even easier.

This new base has been designed to accommodate older X-models, making it possible for users of older models to replace their older and heavier base systems.





## Leg Test



The 3 legs have been beefed up in size and now include a double locking system. In addition to the twist lock, there is also a safety split lock collar on every leg, ensuring extra security.

## *...Notable Upgrades*

### Foldable Camera Plate

The camera plate mechanism now has the ability to fold. This new feature serves many purposes. Firstly it conserves space. It allows the HI-POD to easily fit into the tube travel case without the user having to remove the head.

At the same time the camera plate can be much longer. This is useful because it will allow the user to attach larger cameras or even attaching 2 camcorders (one wide and the other tight).

Thirdly, this new feature allows for more precise control of the camera position and balance. On the bottom side of the folding plate there is a separate balancing level. This level is separate from the level on the base, allowing for each to set independently of each other.





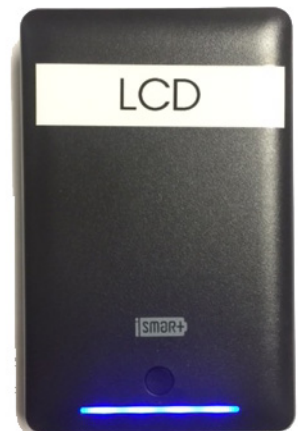
## 10" LCD

The X-Line has a 10" HD LCD included. This monitor provides an improved video display with a brighter screen that can be seen clearly while filming in direct daylight. Add the Hi-Pod Sun Visor for enhanced viewing.

## Battery

With the X-Line unit, we have completely reconfigured the battery. The monitor now uses a USB Power pack that easily attaches onto the back of the unit. While smaller, the new battery can power the monitor for up to 6hrs. There is also no longer a need for an external charger (just a USB power cable now). Simple and effective.

The simplicity of the new battery makes set-up far easier than before.



# *Let's Get Started!*

## Opening The Box

Every HI-POD arrives in a set of two boxes; a tube/base case, and an accessory case.



**Tube / Base Case** – Contains Hi-Pod Tubes and Base together.

The **Accessories Case** contains the following:

- The handle
- The camera (cam, battery, cables)
- The battery
- The battery charger
- The LCD
- The LCD bracket
- Camera-Head- Plate mechanism (Yoke/Pulley wheel/Tilt Plate)
- Camera controller
- Cables (Lanc and HDMI)
- Rain gear for (camera, battery, LCD, controller).
- Sun Visor
- The base plate + wheels





With these 2 cases you have an excellent way to protect your product for a very long time. By making all pieces fit into the accessories case, you have the flexibility of going “case-less” for the tubes and base.

All cases seal with a high-grade zipper that easily keeps the pieces contained inside. Soft-grip handles allow you to roll the cases on their wheels without having to lift the item across a field.

Probably the biggest change to the cases is the ability to travel with two cases instead of three. To accomplish this, you can break down the base by detaching the legs and packing them in the tube case. The rest of the base can fit into the accessory case, allowing you to travel with just the tube and accessory cases...a great benefit when traveling by plane, bus, or any condition with limited space available!





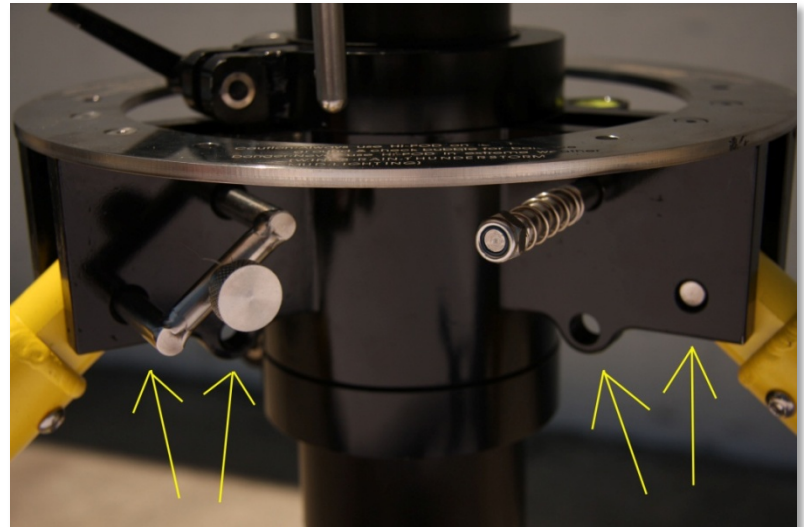
## Base Setup



The base has 3 legs with redundant leg locks for added safety. Please examine the location of the pin. There are two holes that the safety pin can occupy. The first pin hole locks the leg closed. This is important when traveling, as it keeps the legs from falling out of place.

The second pin hole locks the leg open. This is necessary to stabilize the base and provide support for the extended HI-

POD. Repeat this for all 3 legs. (Make sure when you insert the pin that you insert through the leg hole. It is possible to insert the pin, without securing the leg. Please make note of this.)

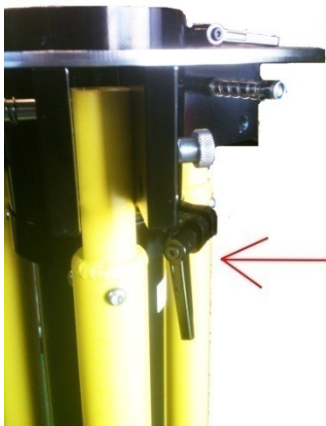


With this version of the HI-POD, you can break the base down into three pieces. This gives you more options when traveling, as you can pack the parts differently.



**IMPORTANT:** If you decide to split the base into three parts, when you put it back together you must make sure that the middle cylinder is locked to both the base plate (right), and to the leg bracket (left) – each secured by a twist lock.

The lock itself will twist, then pull out, reposition, and repeat the motion until tight.



## Lower Leg Lock

Now that you have locked the upper part of the leg, it is time to lock the lower part of the leg. Unlock the lock by turning in the ratchet in the appropriate direction.



Once unlocked this allows the inner leg to extend and move freely. After extending the leg, turn the ratchet to lock. Now it is time to use the redundant safety lock. Loosen the ratchet on the safety lock, making it easy to slide. Push the safety lock up so it makes contact with the top ratchet lock. Once you have done this, secure both locks tightly. Repeat this on all legs. Examine the balance bubble. You may have to adjust the legs to achieve perfect balance. (See Below)

Pictured right, you will see an example of a set-up redundant safety lock. In the unlikely event that the priority lock fails, this lock will serve as a backup.





## HI-POD Tube / Base Case

The HI-POD Tubes and Base arrive in a black travel case. For users from 2015 on, **this step will not apply** as the tubes and base arrive connected together. For earlier users, see notes below:

The HI-POD X31 consists of 6 telescoping tubes, the X23 is 4 tubes, and the X17 is 3 tubes. They each are approximately 5 feet long- thus providing 31 feet of height.





## Tubes Into Base (pre-2015)

Now that you have removed the tubes from the case, you can directly insert them into the top of the HI-POD Base. Once the tubes have been installed, you can adjust the tension on the collar at the top of the base to regulate the amount of 'drag' you want when panning from left to right. Adjust to preference. If you are a user post-2015, this step will not apply (parts arrive together).



## Attaching Head to Tubes

Find the wheeled head with L-shaped extension, connected to a mounting pedestal.

Insert the bottom of the pedestal into the top of the Hi-Pod Tubes. Turn the ratchet found at the top of the tubes to lock the head into place.





## Raising, Locking & Lowering HI-POD Tubes

To open the collar and allow a tube to move freely, first hold the tube above the collar so it does not move.

Next pull out the cam-lock so it is straight (horizontal). Now you can manually push up the tube to the desired height.

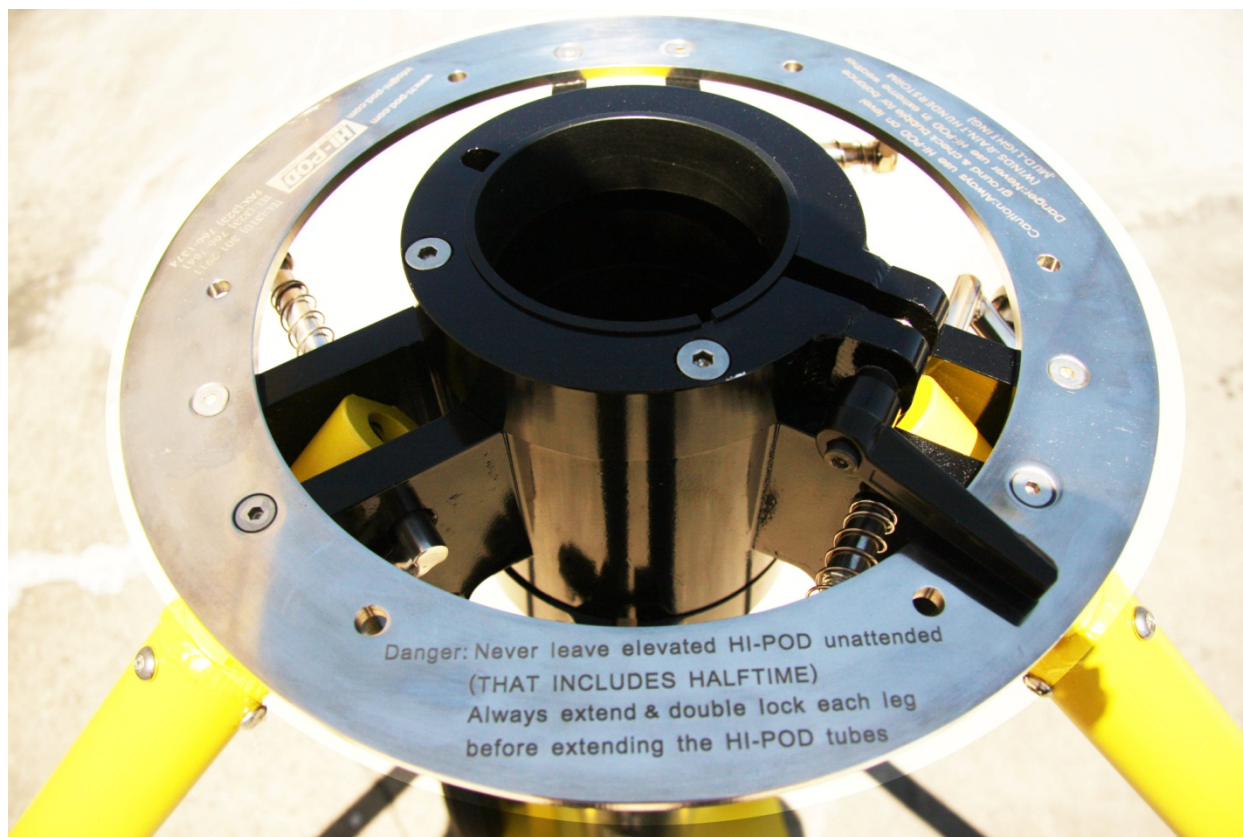
When you reach that height, hold the tube with one hand and close the camlock with the other hand. (Close is the down position). To release the camlock, simply unscrew in the opposite direction.



There are 5 collars for the 6 HI-POD tubes, each collar squeezing the upper tube. When you reach the recommended height you will see a white line. This white line tells you to stop elevating and lock the collar. It is not possible to push the innermost tube so high that it comes out. There is a built in safety catch that prevents the tube from coming out.



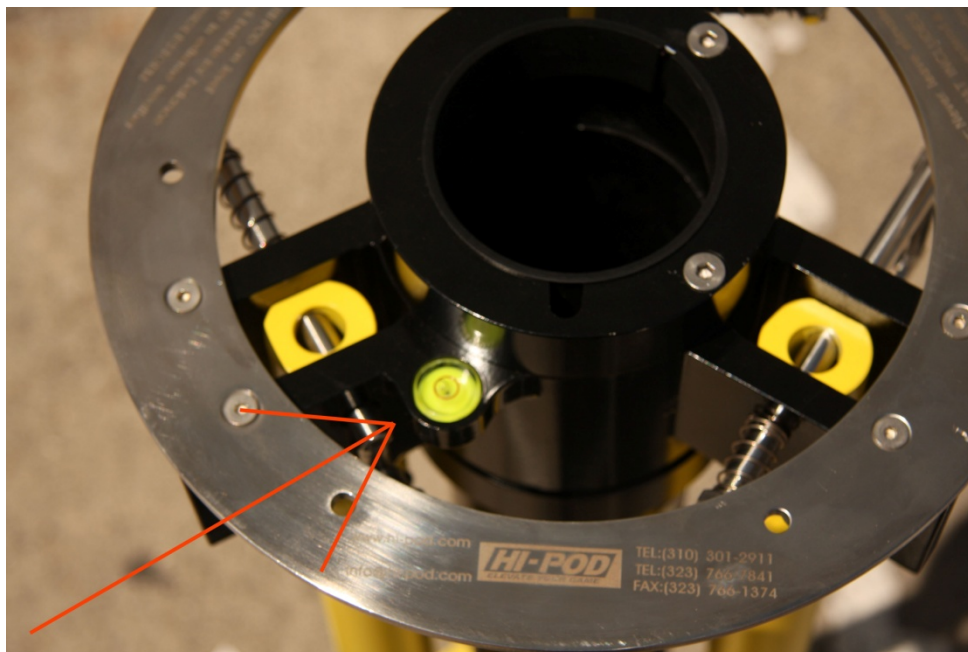
## Safety Warnings



We can't stress enough that safety must be taken into consideration when using the HI-POD. Please follow the directions on the top of the HI-POD base.

1. Never leave an elevated HI-POD unattended. If you must leave, bring the unit down.
2. Always secure the legs before elevating. We have reduced the weight of the HI-POD base considerably over the years, but that means more of the stability job has been assumed by the legs. For safe operation make sure all the legs are locked and double locked.
3. Be careful in extreme weather conditions. The unit can get wet. We have raingear for all the electronics. But use caution as the winds increase. This is also a judgment call. As the winds increase, reduce the height until you feel comfortable.
4. In the event of lightening, take the unit down immediately. (It's a 31ft aluminum pole going straight up in the air!)
5. Use the leveling bubble to balance your HI-POD. If your unit is unbalanced it may be unstable.





Always check the leveling bubble when setting up the HI-POD. The bubble must be level and the legs must be locked and solid.

## Safety Pins for the Bottom Three Telescoping Tubes



We have added an additional safety mechanism. Each locking collar for the tubes has the ability to receive a locking safety pin.

As you raise each tube you will see the warning white line. It tells you to stop. If you try to go further there are stoppers that prevent the tube from coming out all the way. But once you elevate the tube to the white line and lock the camlock, you will see a hole visible. On the bottom three tubes we have included a safety pin for each of these tubes. When you insert the pin, the tube is secured. It cannot slip as long as the pin is inserted.

## Attaching Handle to Tubes, & Pulley Head



Attaching your HI-POD handle to the main unit is done in three easy steps.



(1) Retrieve the handle mechanism from the base case. Make sure that the round cylinder is on the left hand side of the HI-POD before securing.

*Note: The cylinder should line up directly below the tilt plate and pulley wheel, which will be attached to the top of the HI-POD. (See Photo)*

If you are in front of the HI-POD, then the handle will attach from the back. To attach the handle unit to the tube, loosen the handle mechanism clamp by spinning the large X screw so that it fits comfortably around the



tube. Then, with the X screw simply tighten the handle mechanism clamp. As you spin the X screw you are squeezing the clamps against the tube. Reverse this to loosen the handle later on.



(2) Now that the handle is secure, notice the left hand side. It is a cylinder with a gripping wheel for your hand to grab & control the unit. Two ropes should exit the cylinder at the bottom, from either side of a large screw.

Next we will connect the carabiner clamps with the ropes coming down from the HI-POD pulley head. *Notice how the ropes go straight up to the pulley.*



**Connecting:** As you face the HI-POD Handle, make sure the large silver screw & ropes are pointed towards the ground. Now, grab the rope that is closest to the tube. Pull that rope towards you. It will extend from the cylinder. Pull approximately 1 foot of rope, making sure that the large screw is still pointing down. With your other hand grab the other rope. Make sure this second rope is extending from the opposite side of the cylinder. Pull out the same amount of

rope as the first. At this point, you should have the large screw pointing toward the ground, and 1 foot of rope extending above the cylinder on either side.

(Please examine the photo)

Pull on the ropes and extend them towards the pulley wheel. Look up, and notice the ropes already dangling from the pulley.



Connect the ropes via the carabineer clamp. The carabineer connectors make it very easy to attach and detach the handle from the tubes.



This clamp extends from the ropes that are tied to the pulley at the top of the HI-POD Tubes. You will notice these ropes fall from either side of the pulley wheel. *Remember: the ropes should come from opposite sides of the pulley wheel (just like the cylinder below).*

**(3) Screw Knob:** Notice the big screw knob that sits in-between the rope holes underneath the cylinder. If this screw is loose, the spools behave freely, retracting the pulley ropes if there is slack, or giving out rope if the HI-POD is extended. If the big screw

is tightened or locked, the spools can neither extend nor retract the pulley ropes. **You unlock the spools to extend or bring down the HI-POD. You lock the spools to control and tilt the camera plate/camera.** By pointing the lock mechanism on the bottom of the cylinder, the user will have 180 degrees of rotation. If it is not at the bottom, the range of motion is very limited and choppy.

*Note: (For the most part this screw is not used. It becomes useful when you are using a heavier and larger camera. This screw is used when the weight of the camera overpowers the strength of the springs inside of the cylinder. You will need this screw when you try to tilt the camera and*

*the camera slips out of position. Typically this screw is not needed when the cameras are small and light.*

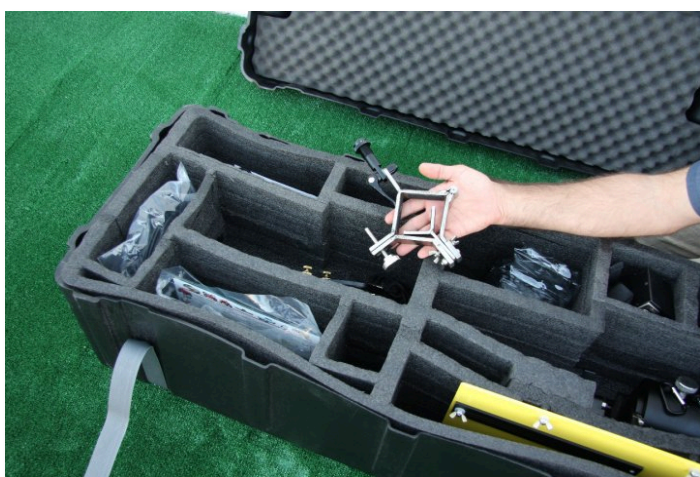




## Handle (Position Lock Spool Retraction Lock)

Notice a knob beneath the cylinder of the left side of the handle. If you loosen the knob, the cylinder will retract the ropes. (This is a blessing as you are manually contracting the HI-POD poles, the ropes automatically self-retract.) If you tighten the knob, the ropes will stay in that position, without retracting. This knob can be loosened and tightened, according to the desired effect. (For example, if the camera tilt is not responding immediately to your hand movements, or if the camera is slipping out of tilt position)

Now let's say you are taping a drill that is in one place for long time and you do not want to hold the handle in that position. You want to free up your hands to grab something (water or food). Use the position lock (#1 below). Tighten and loosen the position lock for the desired effect. In the below photo **1 is the position lock** and **2 is the spool retraction lock**.



## LCD & Bracket

The LCD bracket is designed to work with the big 31foot HI-POD and the smaller 17foot Mobile HI-POD. As you remove it from the case you will notice a Y inside of the bracket that is held in place by a wingnut screw. Loosen the screw and flip the Y so it is out of the original position. Now that the Y is out, the bracket will fit the largest diameter HI-POD Tube.

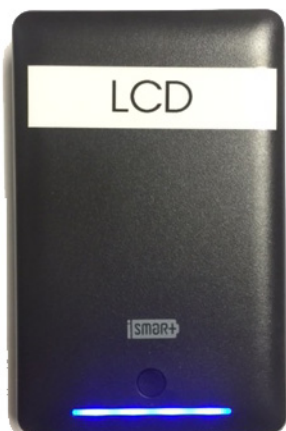
Loosen the large bolt to open the LCD bracket. Now tighten the bolt so that the bracket squeezes the tube. Adjust so you are comfortable with the height.



This LCD bracket is much easier to use than the previous one. Simply slide the hook into the back of the LCD monitor. Once you slide the hook into the slot, position it where you want it, then tighten down on it with the threaded screw. Now to position the LCD so it best for your viewing, loosen the camlock. Reposition and then lock again with the camlock.

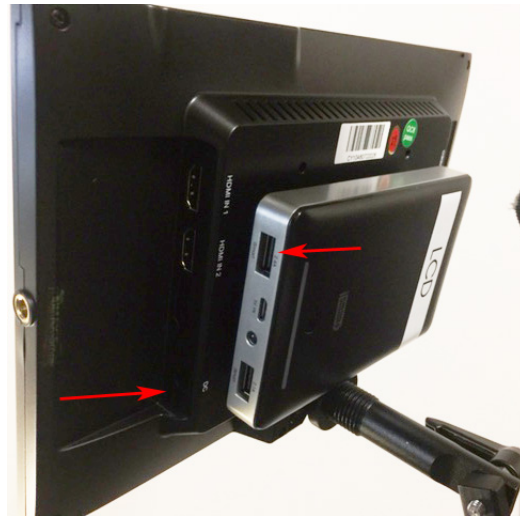
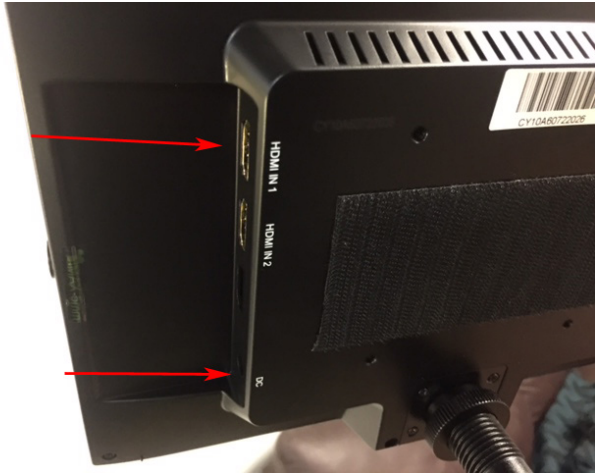
(CAUTION: To reposition the LCD, loosen the camlock and reposition. Do not twist the LCD to reposition. Overtime this will damage the back of the slot, bend the metal slot and ultimately strip the screws that hold the slot to the back of the LCD.

## LCD Setup:



**< - - see current LCD battery on left**

On the back of the screen take note of the velcro strap, and two ports: **'HDMI IN 1'** for video and **'DC'** for power. Attach the LCD battery as shown.



<- - Use the adapter on the left to plug into the USB end of the battery, and then connect the DC tip into the LCD.



## 1-Hand Remote (for 2019 users only)

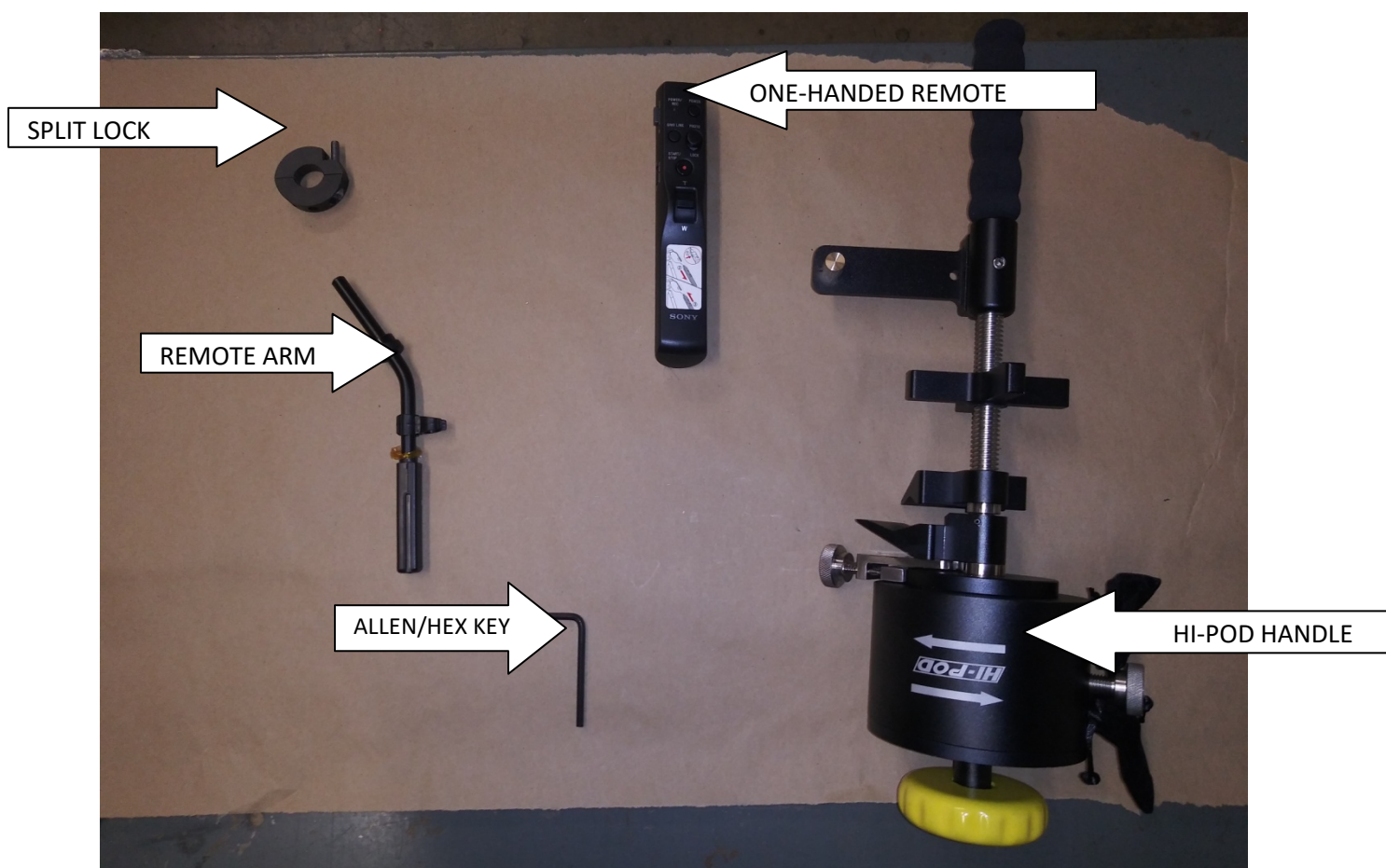
# One-Handed Remote Installation

### Included items:

- One-Handed Remote
- Remote arm
- Split Lock with 2 Internal Hex Screws
- Metric 5 Allen/Hex Key

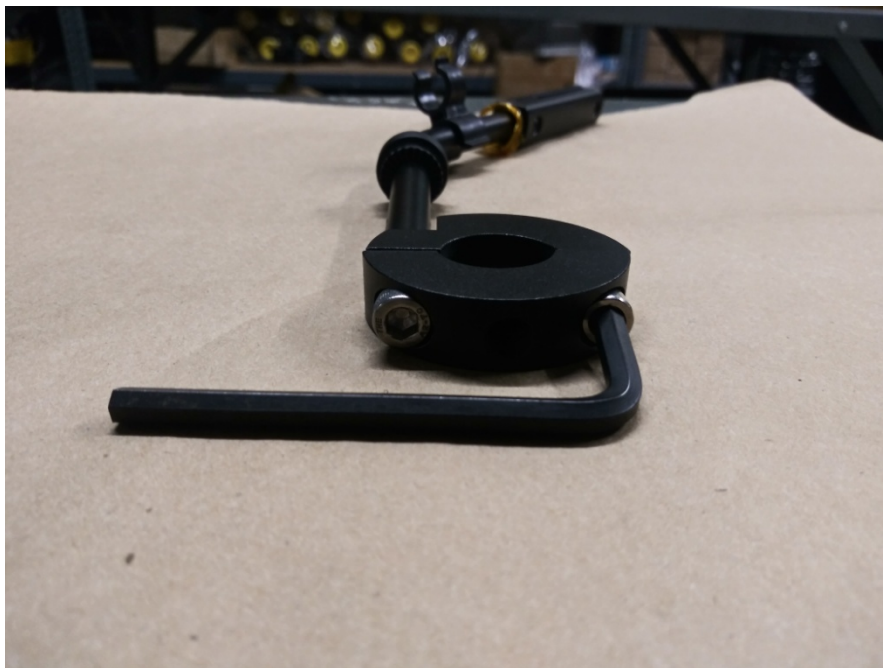
### Instructions:

The following is what you will need for upgrading to the one-handed remote.

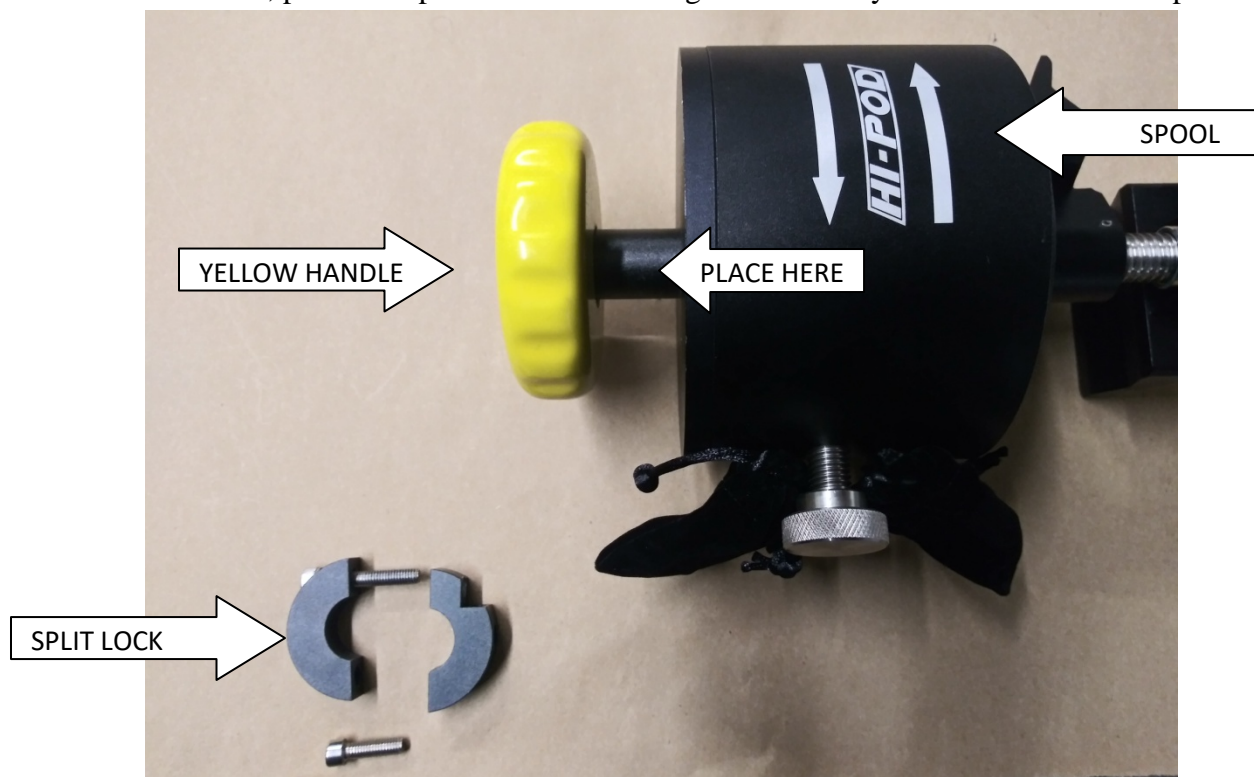




Using the Allen/Hex Key, loosen both internal hex screws. This will allow you to separate the split lock form the remote arm.



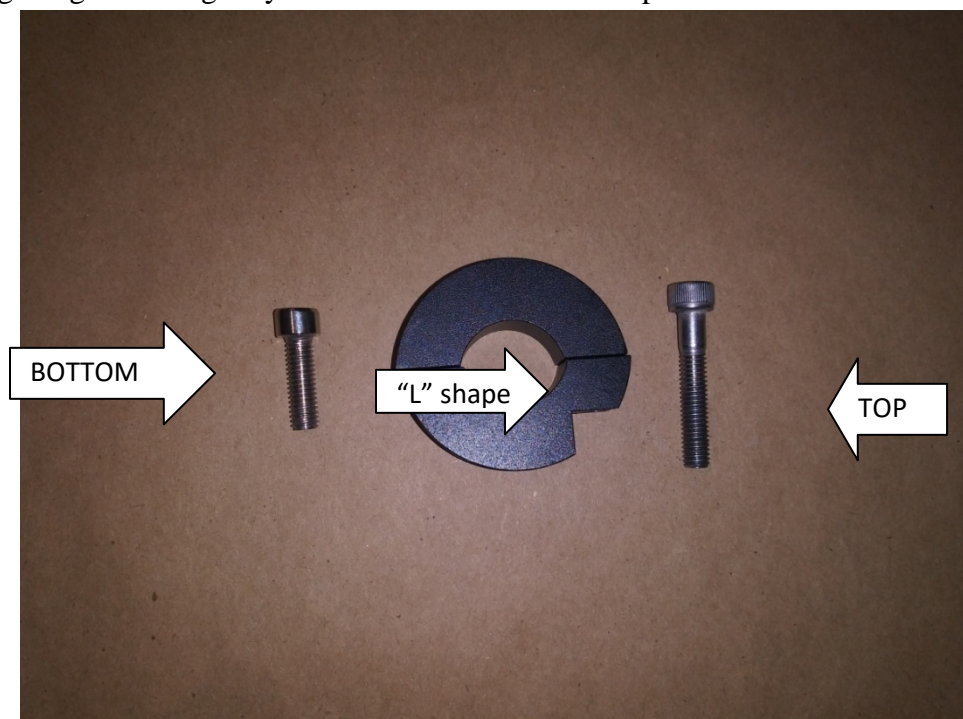
Once removed, place the split lock on the tubing between the yellow handle and the spool.



Have the “L” shaped notch facing towards you. Place longer hex screw through the access point. When placing split lock, start with the longer top screw. Screw in the remote by hand, this will allow you have more control for screwing the arm to the split lock.



Following image should give you a better idea of how the split lock and screws must be placed.





Tighten to the point where there is some mobility in the arm. Screw in bottom screw, and adjust placement of arm.

Once comfortable position is found, tighten both screws to lock in place.





The rope locking screw must be pointing straight down.



## **Camera / Cables / Remote**

Inside of your case you'll find a bundle of cables with a remote and strain reliefs already attached. We've gone to great lengths to both simplify your setup and also to protect the cables from damage while in use. There are three main parts of this cable bundle we want to bring to your attention:

- **Strain Relief Plate w/ Quick Release**



- **Carabineer**



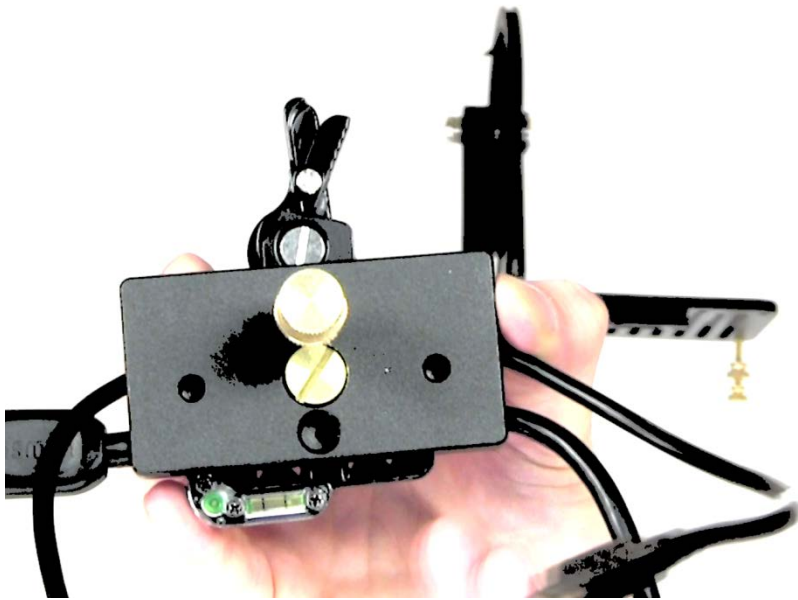
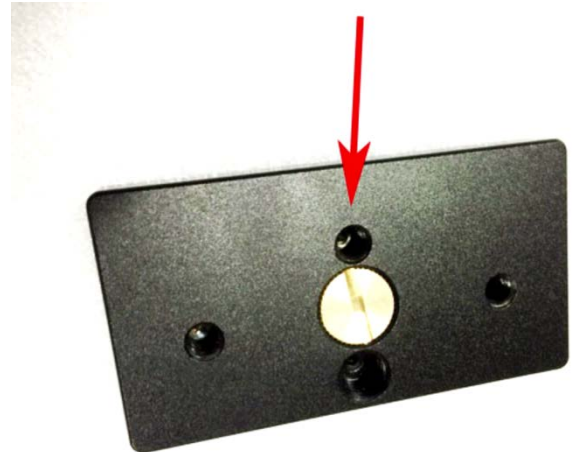
- **Remotes: 2019 - Today**



2019

To mount the strain relief plate with quick release attached, use the smaller of the two middle holes on the bottom of the strain relief portion of the plate.

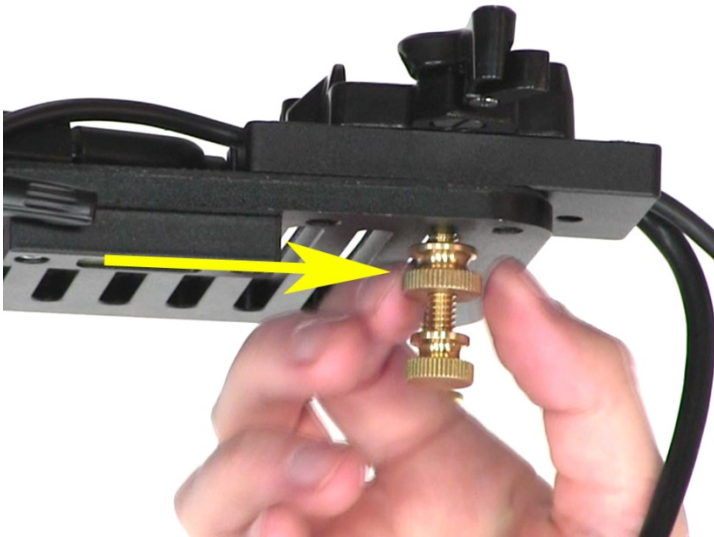
See the hole noted with the red arrow to the right.



See one of the brass screws inserted to the left.

Mount this assembly by inserting the brass screw through the slot on the very outside of the Hi-Pod head. Tighten the main screw into the threaded hole as far as possible.





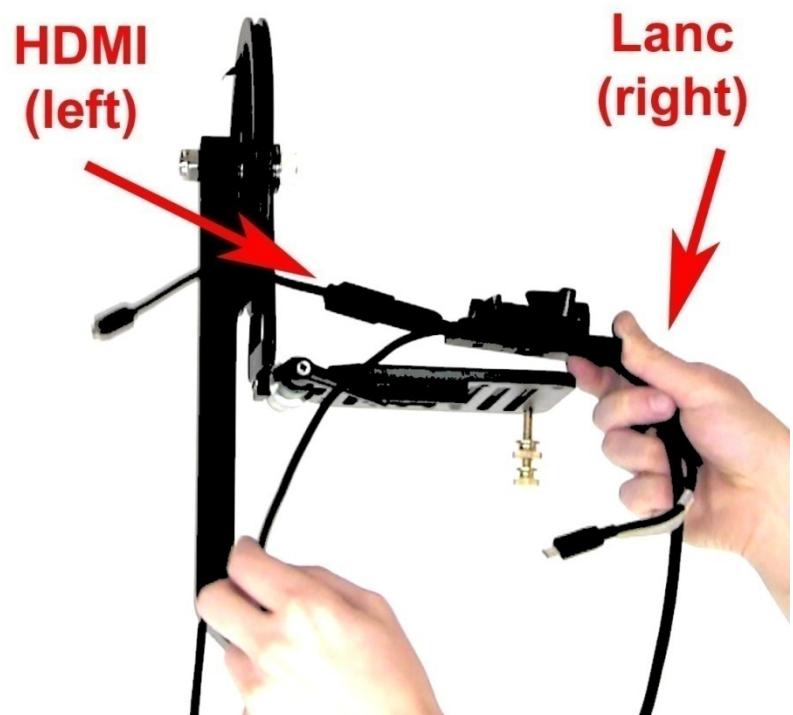
Then there is a secondary screw (see left) which comes up after the main screw is inserted which tightens this mechanism in place. Be aware that there are two parts of these screws, and both must be in place to hold tightly.

Now, you need to mount the strain relief and quick lease plate in the correct way so that the cables are available on the correct sides to plug into the camera.

The HDMI cable will need to come out on the **left** side of the plate/head structure.

The lanc cable (with the yellow tag) will need to come out of the **right** side of the plate/structure.

This places the cables on the correct sides of the assembly where they will plug into the camera ports in a following step.





**Remote Attachment:**

The new remote is an upgraded 1-Hand controller. This mounts to the remote mounting bracket attached to the Hi-Pod handle in the image above (see to the right of yellow grip).

Use the remote mounting bracket as shown below, and snap into place.



You can remove the remote (when packing up) by pressing the button on the side which says "Press to Release". The remote will come off and you can store it safely. Leave the remote mounting bracket arm attached to the handle.



If you ever want/need to change the physical position of the remote, as it attached to the handle, you'll need to find an allen key (metric), open the screws, adjust the angle to your preference, and tighten again.



To mount the camera, find the quick release plate and make sure that the lever is pulled back into the open position.



Notice how the camera already has a connection adapter attached to it. This is what you'll use to snap the camera to the quick release plate.



This image shows the camera snapped into the quick release plate. Pull back on the two levers on the quick release plate when it's time to pack up.



Open the LCD window on the camera.

You'll find the HDMI port under a little door where the LCD opened.

There is also a small door near the camera hand-strap called 'multi'.





See the **HDMI** connection on the right side of the camera.

See the **LANC** connection for the remote on the right side of the camera.

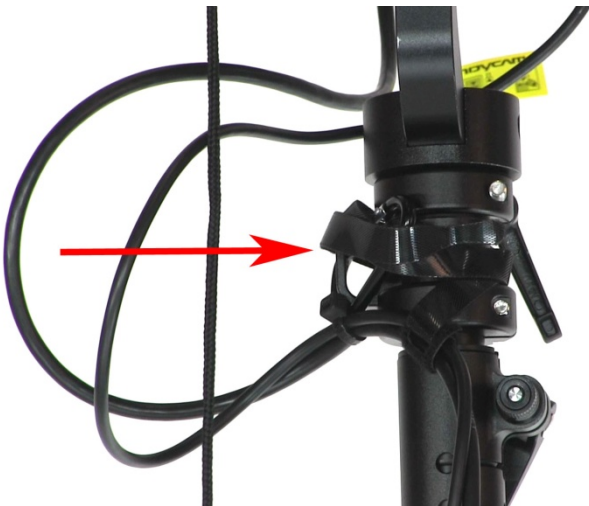




For that last step in the core cable setup, find the carabineer that is attached to the cables.



Take the carabineer and connect it to the hook coming out of the top of the Hi-Pod tubes.



Then take the extra velcro and attach it around the tubes several times to keep it out of the way. This finishes mounting the cables, remote, and camera to the physical structure - with strain reliefs at each point.

## Connect HDMI to LCD

Now we're going to connect the HDMI cable coming down from the camera to the LCD.

There are two types of LCDs. The one shown is the upgraded option which includes HDMI Loop-Thru (in and out). This gives you two HDMI-ins, and one back out.

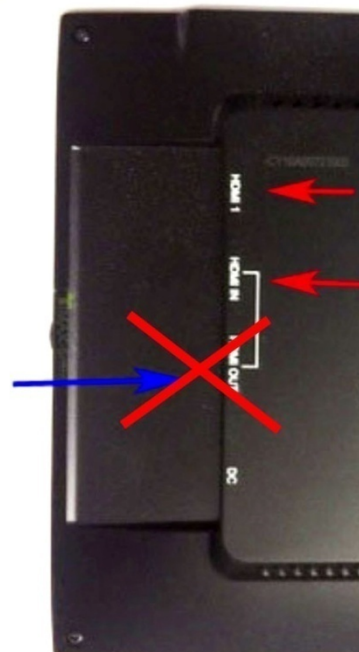
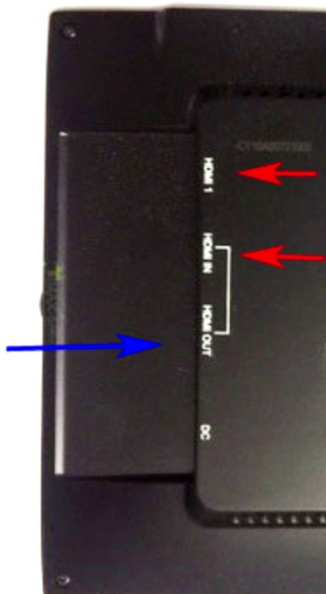
If you have the default screen, it will have two HDMI-in ports only (nothing back out).



See the back of the two different LCDs below.

- LCD with HDMI Loop-Thru \*(Upgrade)  
2 ports HDMI-in (red). 1 HDMI-out (blue)

- Default LCD  
2 ports HDMI-in only (red)





Take your standard sized HDMI cable and connect it to the top port (HDMI1) for video signal. Make sure the LCD is on the correct channel (HDMI 1, HDMI 2, etc) to display the video signal.



### **Camera Battery**

There is an external USB power pack battery that you will need to mount to the tower and connect to the camera. This is what allows you to film for 5-6 hours. If you do not mount this battery you'll be drawing power from the small battery inside of the camera. That battery



will die within 30-45 mins max, so you need to connect the external option to film for an extended time.

There are two options for how to mount the battery.

### (Option 1) Mount Battery Under Camera Plate



For this method you will take one of the brass screws as you did with the strain relief plate, and mount the camera battery with the reverse approach: battery will hang down under the camera plate, and the brass screw will connect from the top.

Mount with the USB ports facing back towards you to connect.

Find the female to male USB adapter cable (see right). This runs power from the battery into the camera.





Now locate the small USB cable that is inside of the hand-strap for the camera. This is where you will connect the adapter cable.

Connect the female end of the adapter to the USB cable coming out of the camera.



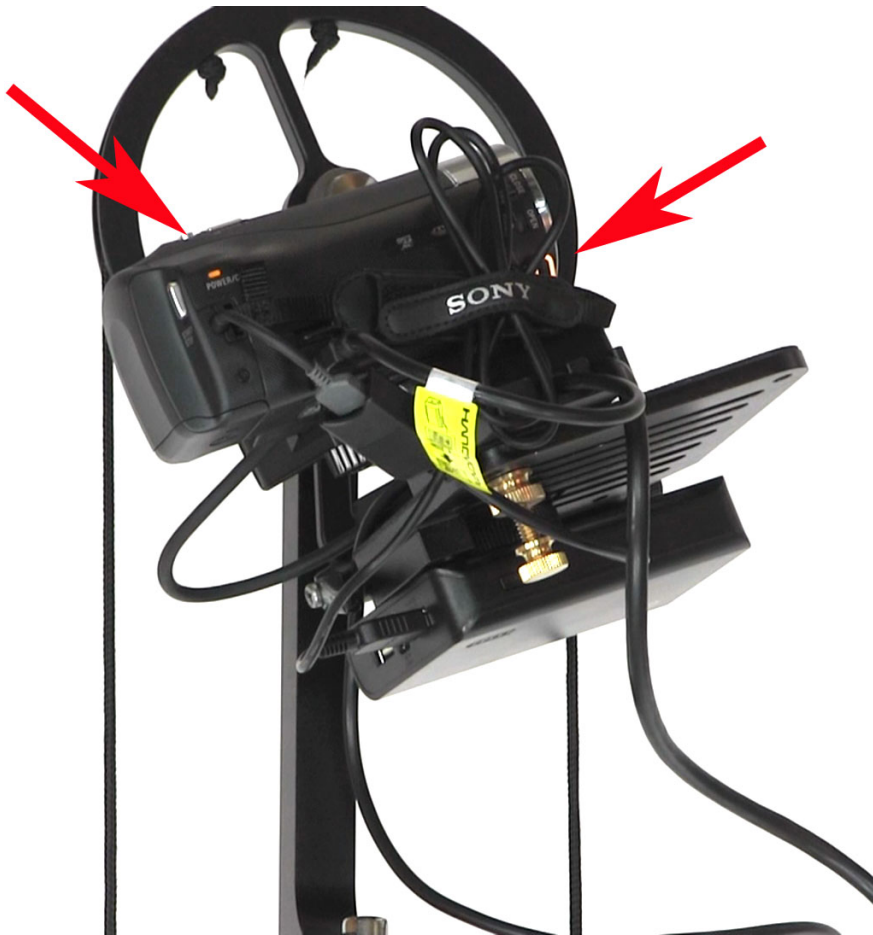


Then take the male end of the USB adapter and plug it into the USB power pack battery.

After you have the cable connected on both ends, you're going to have a lot of extra slack. Take the hand strap in the camera and open up the velcro.



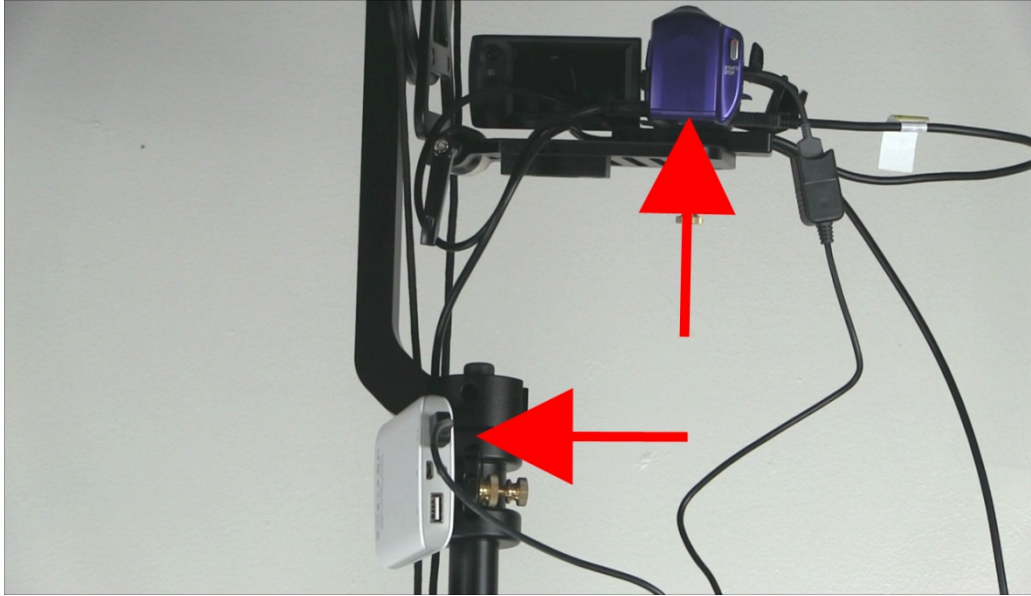




Then bind of the excess cable length of the USB adapter, and bind it inside of the camera hand-strap. This keep the cable clean and out of the way so it won't catch on anything during operation.

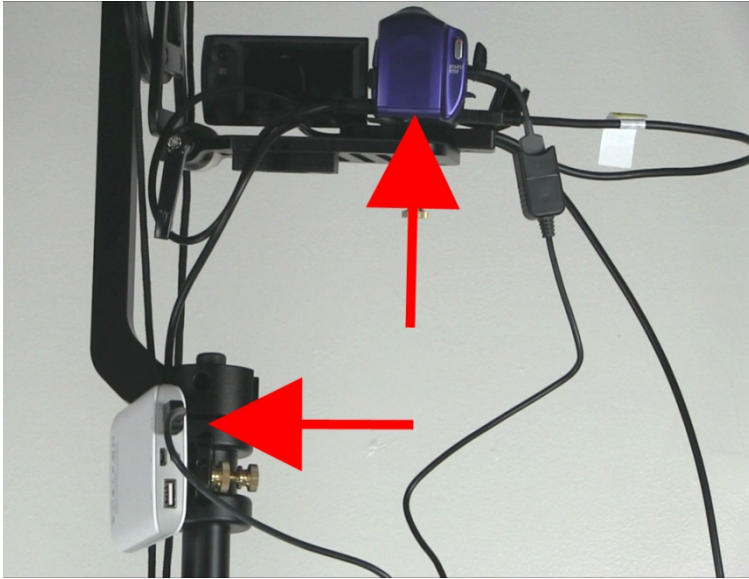
**\*Proper cable management is one of the most important parts of owning and operating a Hi-Pod system.** We've done a lot of work to create strain reliefs, and to make them easy to apply to the unit during setup. Use them. If you ever change cables (for any reason) you must reapply through the included strain relief plates. Otherwise you will damage your cables quickly. Be careful with how you treat the cables before, during, and after a filming session. It makes all the difference between a functional or non-functional system on game day.

**(Option 2) Mount Battery To Hi-Pod Tubes**



Find the USB power pack (exact style may vary but setup will remain the same), and attach to the tower where there is a hook at the top of the tubes. Use the brass screw (shown in the image) to sandwich the battery to the tower.





Connect the battery pack to the camera with a USB extension cable (included in your case). Note the shorter USB cable in the hand-strap of the camera, and use the longer extension to connect the camera/battery.

Some versions of the battery will have more than one power port. The higher of the voltage options is what you'll plug into. On the current grey battery (not pictured) the plug is **2.4A**

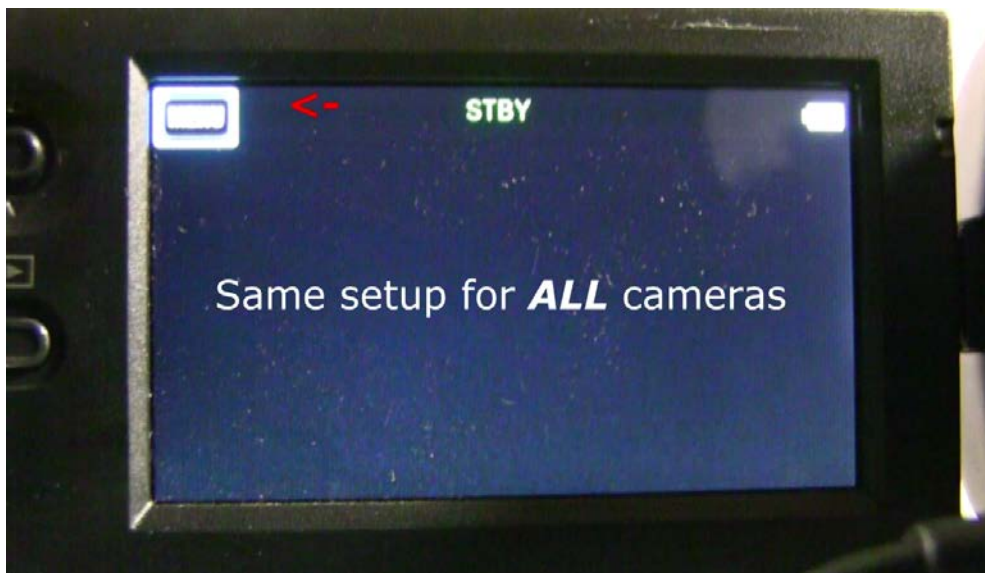


\*If you mount the battery to the tubes of the Hi-Pod you will have the battery in a position where it doesn't move with the head. You'll need to be careful to organize the cables so they don't yank or tug at any point. Unlike the first method (mounting battery to the head where the battery moves with the camera), this is one more variable you'll need to be aware of to make sure the cables remain in working order.

## Text (REC) On Screen

In general, cameras under \$1,000 do not have the ability to save a setting to push out text (record/battery status) from the camera down to the LCD. There is a way to achieve this on less expensive cameras, but it's applied every time the camera is turned on. Once memorized it takes about 5 secs. With the new remote (with light on it) this becomes an option.

- First, click on the '**Menu**' button in the top left corner:



- Select '**Camera/Mic**'

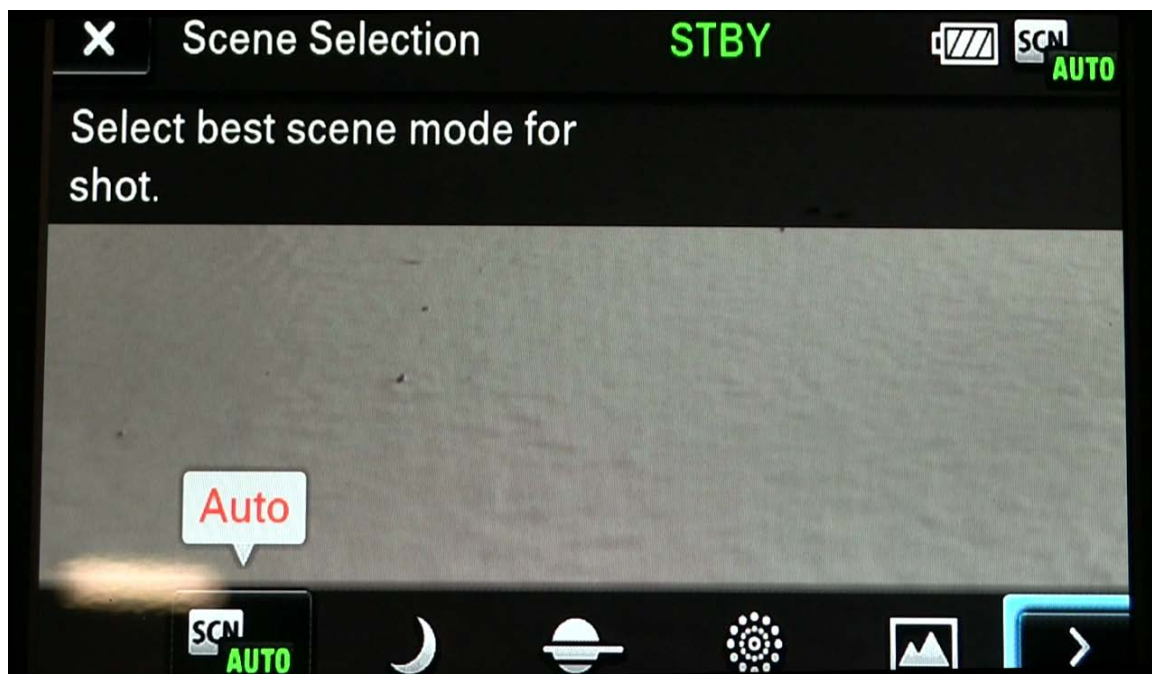




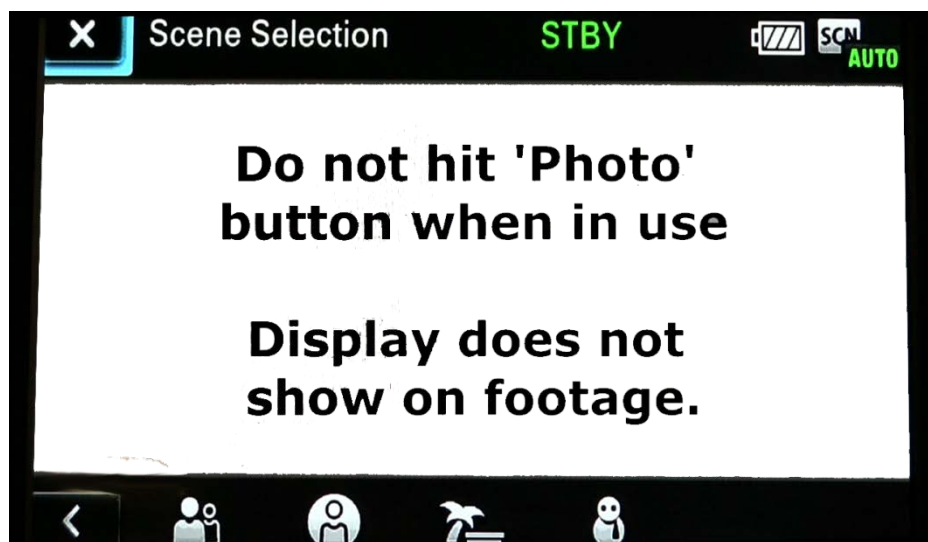
- Scroll down until you find '**Scene Selection**' and click on it



Your screen will change to look like this. Click on the bottom right arrow to continue.



At this point, your screen will clear up leaving the middle unobstructed. **DO NOT CLICK ANYTHING.** Just leave the screen here. The text displayed will push down to your LCD - notice the 'STBY' in green. This will change to a red 'REC' indicator when you're recording. This way you'll always know when you are or aren't recording.



This text overlay will not be on your final video files. It is only seen by the Hi-Pod operator when they are filming.

\*Note: If you have a remote which has a '**Photo**' button option - **DO NOT HIT IT.** If you do it will bounce you out of this view back into the menu where you chose '**Scene Selection.**' If you do this while the camera is in the air, you will have to bring it all the way down to setup on the camera again.

## Camera Settings Continued: Dual Video REC

On new cameras (example CX405), they appear to default ship with a setting called 'Dual Video REC' enabled in the camera settings. When this feature is active the camera saves two copies of the same clip in different quality settings (one is higher def, one is for online sharing).

What this means is that the camera is taking double the storage space that it needs to. Whether you want to leave this setting on is up to the preference of the user, but if you want to turn it off.

- First go to '**Menu**'
- Then '**Image Quality/Size**'
- Then look for '**Dual Video REC**'



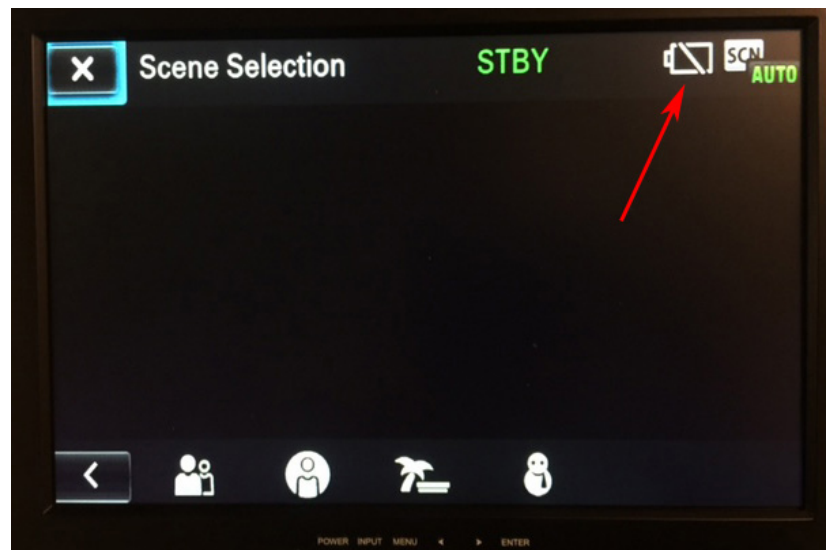
- Turn this feature '**Off**'



### ***Camera Settings Continued:*** **Confirming Camera Battery**

For those clients using either the grey or white USB batteries, you need to confirm that the battery is turned on and is set as the main power source before elevating. Without doing this, it's possible to leave the small internal camera battery active which will die quickly.

If you have your camera connected to the LCD (with text on screen applied as explained earlier in this manual) you will see the battery icon in the top left. This means the small internal battery is active.



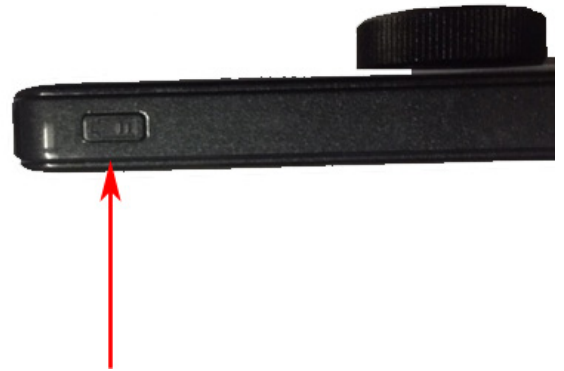
### **This is not what you want.**



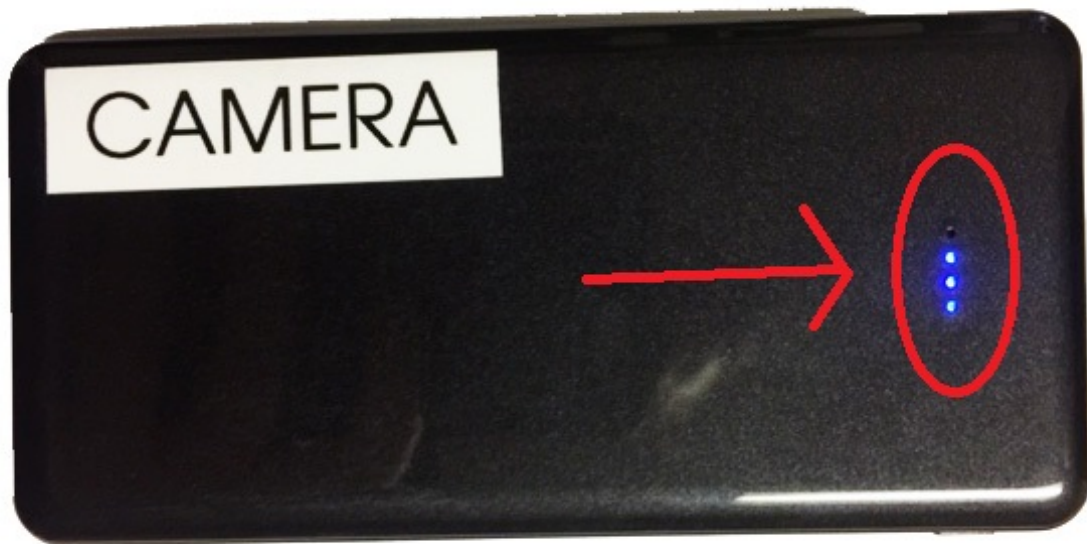
First, mount the battery to the tower (either to the top of the poles as shown or to the camera plate). Connect the battery to the camera with the female-to-male USB cable extension. The female end will connect to the USB cable found in the camera hand strap.



Click the button on the side of the battery to turn it on.



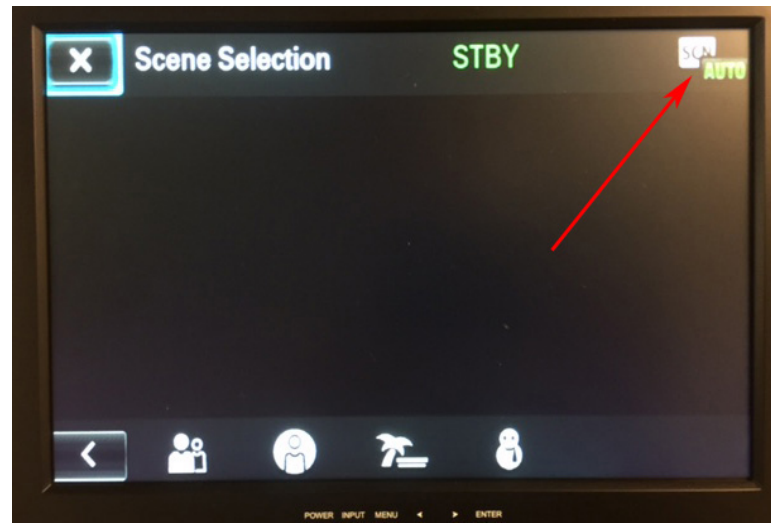
You will see the buttons on the battery light up blue.





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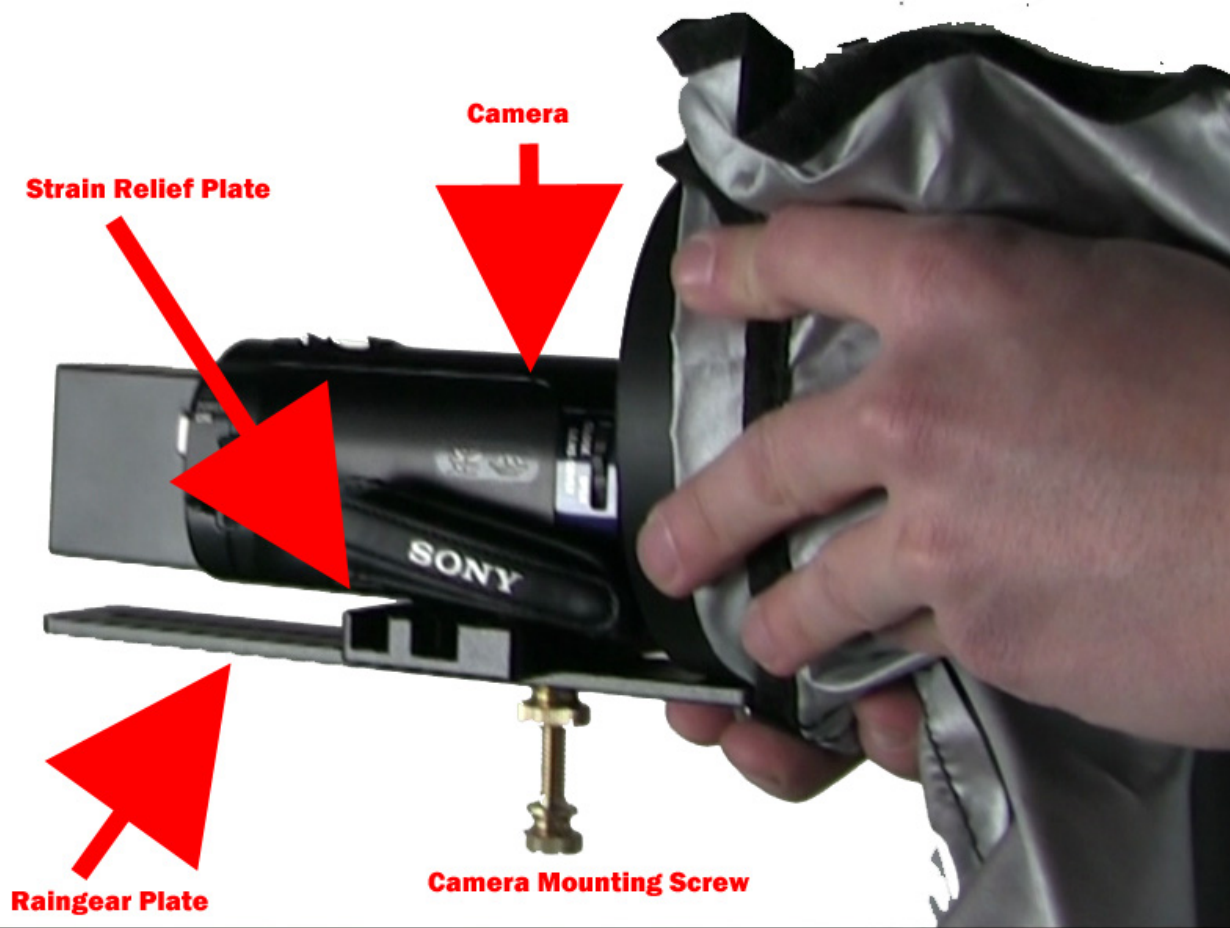
When connected correctly and turned on, the battery button in the top right of the LCD will disappear. [This is what you want](#), and (when charged) will allow the camera to record for at least 5 hrs.



## Raingear

There are three parts to the raingear for the Hi-Pod:

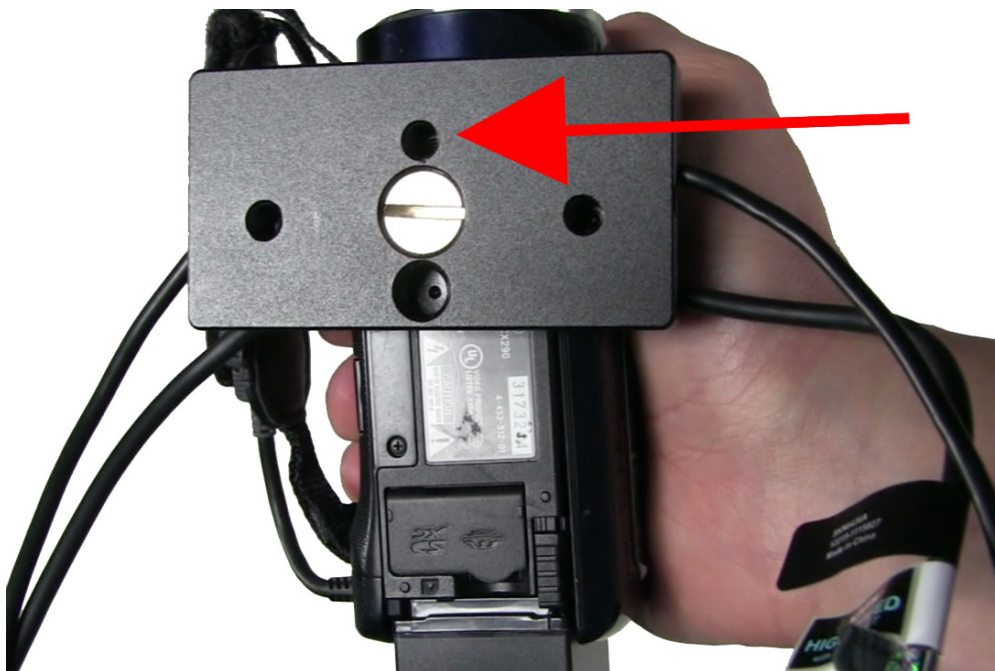
- Camera
- LCD
- Remote



See the camera raingear below:

This image is shown without the wheeled head. The brass screw will be the only part under the wheeled head - everything else will go on top.

Use the same hole on the strain relief plate to attach the brass screw as you do with the raingear. Just make sure that now, the raingear plate is below the strain relief plate, but on top of the wheeled plate.



*(See attached)*





There is a cinch cord which will allow you to organize your cables, arrange the bag, and then completely close so no water can get inside.



There are different ways to accomplish this, but the key is to pull the cord completely shut when finished.

Note the length of cord, and general position. Pull shut.



The LCD raingear attaches by simply sliding it over the mounted screen, with battery



attached in the back. Velcro to seal.

Raingear for the remote will attach as shown in the image below. Most often, you seal the bag and operate the remote from outside. However, there is a slot in the bag (to the right) with another cinch cord if you wanted your hand to be inside as well.



With the camera, lcd, and remote covered, this completes the raingear setup. If conditions vary, you can always go beyond what is included to enhance your protection.

**\*\*You will need to judge the weather conditions and adjust **BEFORE** you start shooting. If you even think there is a chance of bad weather mount the raingear in advance. *There is nothing worse than scrambling in rain during the middle of a game with expensive equipment exposed to the elements, so plan in advance!***

### Step 15: Horizon Line

#### Horizon Line



On the Hi-Pod head, from the bottom looking up, you'll find a green leveling bubble. This helps to confirm whether your shot is level with the ground before elevating.

Attending to this before elevation can make the difference between...

this

or this



## Elevating Tubes

At this point in the setup, your unit is set to elevate.



Grab a pole above a collar, unlock, raise to your desired height, and lock again.

Note the lever (camlock) which you'll use to release and lock the tube collars. Repeat this for all stages.

See the collar and camlock on the tubes after the pole has been elevated.





Close the lever (camlock) to hold the pole in place at your desired height.

Again, repeat for all tube stages.



### Lowering Tubes



When lowering the tubes, **always grab the pole above a collar before opening that collar.** If you do not grab the pole first, it will shoot down.

## Velcro Cables to Tubes

We include a strap of velcro above every collar. Use this to attach your video/lanc cables to the tower. This keeps your cables out of the way, and acts as an additional strain relief.





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