

## Thank you for your purchase of the RoverCam 30!



### 1.1 Features of the RoverCam 30:

- Multiple heights give you a lot of flexibility to shoot
- Light weight, so you can easily transport the RoverCam 30
- Can be setup and stored in less than 5 minutes!
- Comes with an accessory bag for easy transport
- The camera is powered by the battery at the base, freeing you from having to buy an extended life battery
- Designed to protect your investment
- Quick release plate for the camera allows for easy setup, and protection plate allows you to set the ROVERCAM 30 down on the ground!
- Electrical Tilt of the RoverCam 30 gives you great control over shooting
- Adjustable 8 inch monitor with 450 CD/M2 brightness, providing you a bright and clear view!

## 1.2 Warnings



### *1.2.1 Overhead Power Lines Warning*

Overhead power lines are especially hazardous because they carry extremely high voltage. **Fatal electrocution is the main risk, but burns and falls from elevations are also hazards.** Using tools and equipment that can contact power lines increases the risk. You must take adequate care to make sure that the RoverCam 30 is not operating close to overhead power lines.

#### **How Do I Avoid Hazards?**

Look for overhead power lines. Post warning signs. Stay at least 30 feet away from overhead power lines. Unless you know otherwise, assume that overhead lines are energized.

### *1.2.2 Be Careful when lowering and raising the RoverCam 30*

#### **Raising the RoverCam 30:**

The RoverCam 30 is raised by standing by the camera and gripping the mast. You would then walk up the RoverCam 30 by moving your hands up the mast sections as you push the mast up until the tripod supports the Rover30. While not heavy, it is possible to drop the RoverCam 30 if you are not careful. Make sure no one is standing near by the RoverCam 30 while raising it. You do not want to provide a hazard for those around you.

#### **Lowering the RoverCam 30:**

The RoverCam 30 is lowered by standing at the base of the tripod, opposite where the battery is mounted on the tripod. The battery will provide a good counterbalance for you when lowering the RoverCam 30. Gripping the Bottom section of the mast at the highest point you are able, pull the RoverCam 30 down gently and back up, moving up the mast section as you walk the RoverCam 30 down. While not heavy, you must take care to keep hold of the RoverCam 30, to avoid dropping the RoverCam 30. Make sure no one is around the RoverCam 30 to avoid providing a hazard to those around you.

### ***1.2.3 Place the RoverCam 30 on a Level Surface***

Make sure to place the RoverCam 30 tripod on a level surface. Placing the Tripod on more than a 5 degree angle could result in the RoverCam 30 leaning and falling. This could damage the RoverCam 30 or provide a falling hazard.

### ***1.2.4 Sunspots on the monitor***

Long, daily exposure to direct sunlight will damage an LCD screen. Ultraviolet radiation is the killer. Make sure that you avoid direct sunlight shining on LCD, as it can affect the quality of the picture and can burn in spots on the LCD surface.

### ***1.2.5 Battery Charging and Overcharging***



Do not overcharge the RoverCam 30 Battery. You should charge the RoverCam 30 battery for no more than 16 hours per charge. Overcharging the RoverCam 30 battery will reduce the life of the battery. You should charge the RoverCam 30 battery at least once a month to keep the battery in good shape. It is a good practice with the RoverCam 30 battery to discharge the battery completely before recharging it. (This will keep the battery in tip top shape!)

### ***1.2.6 High Winds and the RoverCam 30***

**Do not leave the RoverCam 30 unattended!** Although very sturdy, a strong wind gust could topple the RoverCam 30. This could result in damage to the RoverCam 30 and a falling hazard to those around. On windy days, weight down the legs of the tripod. You could use bags of sand or weights against the bottom of the tripod to provide extra stability. Consider only raising the RoverCam 30 one section on windy days to reduce the amount of sway in the camera.

## **1.3 Description of the RoverCam 30**

The RoverCam 30 is a tripod based, camera on a mast. The RoverCam 30 is designed to be operated between 7 and 30 ft tall.

Your monitor, zoom, and record controls are adjustable.

RoverCam 30 is 7 ft. to 30 ft. long with a ¼ 20 camera mount quick release plate.

The mast sections are silver in color and made out of aluminum.

The tripod is Black in color and made of Steel.

It is designed for recording events from an elevated view point while controlling the camera from the ground

## **1.4 Assembly of the RoverCam 30**

When you receive your RoverCam 30 you will need to assemble the components each time you use it. We ship the RoverCam 30 in several boxes to keep the components protected.

### ***Steps to Assembling the RoverCam 30:***

1. Unbox everything, and set the components on the side. Inspect the box to make sure you have left nothing in the packing materials. You should have multiple boxes on a standard RoverCam 30 order.
2. The following instructions are for installing the RoverCam 30 from all materials in the Cart



*The following picture shows the RoverCam 30 on the Cart*

3. Un-strap bungee cord from the Cart to the Case, set case to the side and open the case.

4. Being Careful to step on the bottom of the cart to provide support, undo the bungee holding the mast and tripod in place and set them off to the side.



*The following picture shows the RoverCam 30 Case open with the components inside. At the top left is the RoverCam 30 battery. Bottom Left is the RoverCam 30 Head assembly foot. To the Right of the Head foot assembly, is the RoverCam 30 Camera head monitor. In the middle is the RoverCam 30 control arm. In the Bottom Right is the RoverCam 30 Monitor assembly. At the top right is the camera bag.*

5. Take the tripod section and extend it in the place where you want the RoverCam 30 to sit when shooting. Once you start extending the tripod, pull on each leg in turn a little bit to get the tripod fully extended.



*This picture shows extending the tripod section. Pull on one leg to extend a little, then alternate to another leg and pull. Do this for each leg until it's fully extended.*

6. Take the Monitor assembly from the Case and attach it to the bottom of the mast section. Using the Clamp, slide the monitor assembly up the pole a few feet and clamp it into place.



*Picture of sliding the Monitor assembly onto the mast section of the RoverCam 30*

7. Take the Control Assembly from the Case and attach it to the bottom of the mast section. Using the Clamp, slide the Control assembly up the pole about 6 inches below the Monitor assembly and clamp it into place.



*Picture of sliding the control assembly in place on the RoverCam 30 mast.*

8. At the top of the mast, loosen the mast clamps, so it will be easy to expand the mast sections to put up the RoverCam 30.



*Picture of the Top of the Mast for the RoverCam 30. You would loosen the mast clamps by turning them on the handles at each clamp.*

9. Pick up the mast section and place it over the top of the Tripod section and slide it all the way to the base of the Tripod, making sure its firmly in place.



*Picture of the mast section being placed on the tripod.*



*Picture of Mast section in place on the tripod.*

10. Put the battery into the battery sleeve at the top of the base of the tripod. Zip up the battery sleeve to keep the battery in place.



*Picture of the battery before being zipped up into battery bag*

11. Connect the Control arm cable to the bottom of the monitor assembly and screw it in to make a secure connection.



*Picture of control arm screwed into bottom of monitor assembly*

12. Take the Camera Head assembly out of the case and remove the quick release plate from the head.



*Picture of the Quick release plate before removal from the camera head assembly.*

13. Attach the quick release plate to the camera. Make sure you line up the lens orientation printed on the bottom of the plate to the direction that the camera lens is facing, otherwise the RoverCam 30 will not tilt correctly.



*Picture of attaching Quick release plate to camera. **IMPORTANT: Make sure you have the release plate lined up to the orientation to the direction the lens faces!!!***

14. With the Camera on the release plate, lock the camera into place onto the Camera head assembly. Make sure it is locked in place before you put up the RoverCam 30.
15. Make sure if using a camera for the 1<sup>st</sup> time, you set the time and date, and turn demo mode, and power save off on the menu settings. Consult the camera manual for steps to turn off powersave mode and demo mode.



*Picture of the Camera being locked into place once its attached to the quick release plate.*

16. Attach both the Power and control leads to the Camera from the Camera head.



*Picture shows the Camera with the Power and control cables plugged in.*

17. Attach the aluminum T-rest on to the Camera assembly with the supplied knob and screw it in to secure it.



*Shows picture of T-Rest plate being screwed in to the camera assembly.*

18. With the Camera Head all assembled, open the Camera View finder window and open the Lens cover on the camera, then place the camera head about 30 feet from where you intend to attach it to the Mast when fully extended.



*Picture of placing the camera head assembly down by where the RoverCam30 will be when mast is fully extended.*

19. Lift up on the tripod and start leaning back the mast section with the Tripod, and walk it back to get to the mast sections to start telescoping the system. Take deliberate careful steps walking it back.



*Picture of walking the mast section down to start telescoping the system.*

20. once you have walked the Mast section down, starting at the closest mast section, pull out the mast section until it will not go any further and twist the section clockwise to engage the j-hooks on the inside of each mast section. Once the J-hook is engaged, then twist the clamp on the outside until the section is fully locked into place



*Picture of holding up the RoverCam 30 as you expand the lowest section of the mast. Twist the upper mast section clockwise to lock the mast section in place.*



*This picture is a mast section with the outer casing removed to illustrate how the J-hooks work. You as you extend the mast to the top section, the j-hook will hit to the top of the section.*



*Once the J-hook hits the top of the section, you would not able to extend that mast section any further. You would then turn the top section clockwise to engage the J-hook and lock that mast section in place.*



This picture shows the mast section fully locked into place. Notice the J-hook fully engaged.

21. Once you have fully extended the lowest section, walk your self to each section and fully extend the sections in the same manner you have extended the lowest section.



*Picture shows extending each section, activating J-Hooks and tightening outside clamps into place.*

22. Set the RoverCam 30 down for a second and grab the Camera head assembly. You will need to screw in the rest bar to the Head Assembly. Attach the head assembly to the top mast section. The bottom of the head assembly will fit into the top of the top mast section. There are holes for you to align, so you can use

the clip shown to secure the head assembly to the top mast section. Once aligned, put in the secured clip to secure the head assembly to the top mast section.



*This picture shows the Head assembly and clip before it is attached to the top mast section.*



*This picture Notice the holes that need to align in order to get the clip in place to secure the head assembly to the top mast section. This picture shows the clip in place and a fully secured head assembly on the top mast section.*

23. Grab the Control Cable from the Accessory bag and uncoil it. You will use the control cable to connect one end to the top of the Monitor assembly and the other end to the Head Assembly. Connect one end to the Head assembly and screw in the connectors to secure the cable to the head assembly.



*Picture of the Control Cable before it is uncoiled.*



*Connect the 9 pin Control cable connector*

24. Run the Control Cable down the mast and use the Velcro strap provided to secure the Cable about halfway down the mast. This will keep the cable from blowing in the wind and being a nuisance.



25. Connect the Bottom of the Control Cable to the top of the Monitor Assembly. Secure the connections by screwing them in.



*Picture of the Control Cable from the top of the camera assembly attached to the top of the monitor assembly.*

26. Raise the RoverCam 30. Starting at the top mast section below the head assembly, grip the mast and start walking the unit up slowly. Walk it up until the unit is sitting on the 3 legs of the tripod and is fully upright.



*Picture of raising the RoverCam 30 by slowly walking the unit up. Slowly ease it up until the Tripod has all 3 legs firmly on the ground.*

27. Connect the battery to the bottom of the power connector on the bottom of the leg of the tripod.



*Picture of connection from Battery to Monitor assembly box.*

28. You may have to adjust the Monitor and Control arm if they are facing differently than the camera lens. Loosen the connectors on the monitor and Control arm and swivel them to have them face opposite of the direction the camera lens is facing. Then tighten them back up. You can also loosen them to adjust the height of the control arm and the Monitor, depending on the cameraman's height.

**29. VERY IMPORTANT LAST STEP- Once you have the Rover30 upright, slightly lift up on each leg and lift it an inch off the ground and let it down. This will center the mast and make it much easier to pan the system. If you do not do this, it will make it harder to pan.**

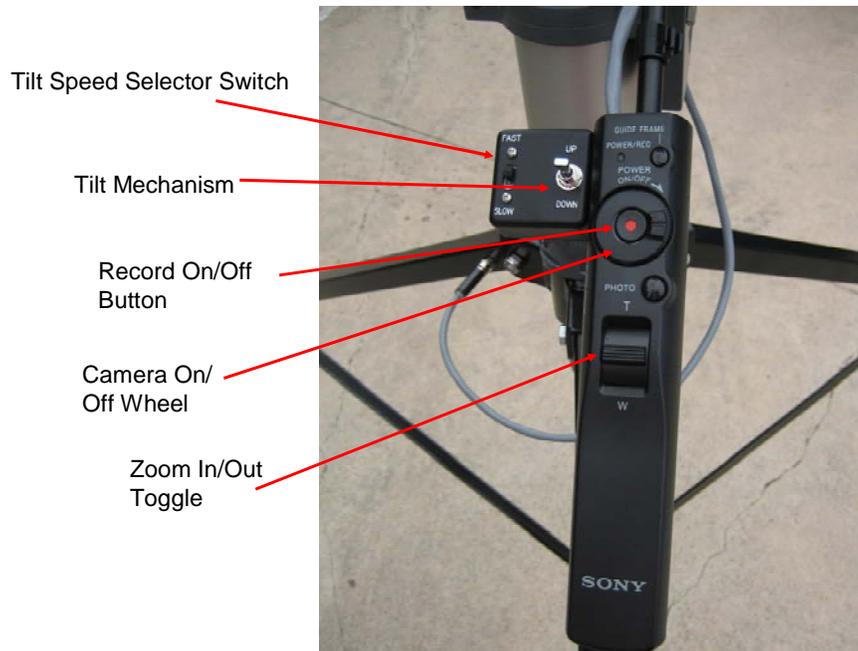
### 1.5 Operation of the RoverCam 30

1. With the RoverCam 30 fully assembled and up, turn the Monitor on, by pressing the power button on the lower right hand corner of the Monitor. Press the AV button until the input is set to AV1. This is important. If the monitor is not set to the correct input, you will not see the video coming from the camera.



*The picture shows the Monitor when powered on. You should see the current input shown in the upper left corner of the screen for the first few seconds.*

3. Press record on the control arm to put the camera into record. Press record again to put it in pause. The Control arm should flash red when in pause and solid red when in record.
4. You can use the Zoom control to zoom in and out on the video.
5. Pan the Camera (moving side to side) by moving the control arm left and right
6. Use the Tilt switch on the left side of the control arm to tilt the camera up and down. You have a selector switch for fast and slow tilt for your convenience.



### **Functions of the control arm**

- Tilt (High and Low Speed)
- Zoom in multiple speeds
- Zoom out multiple speeds
- Record
- Record Pause
- Power on camera (Most models)
- Power off camera (Most Models)

## **1.6 Disassembly of the RoverCam 30**

Basically, you would perform the same actions outlined above to take the RoverCam30 down.

1. Disconnect the Power cable from the bottom of the tripod.
2. Disconnect the power cable from the bottom of the Monitor assembly and the top of the tripod. Store the power cable
3. Disconnect the Control Cable from the bottom of the Monitor assembly that goes to the control arm
4. Disconnect the Control Cable from the top of the Monitor Assembly
2. Walk the RoverCam Down Gently, gripping at the top of the bottom mast opposite the battery, and gently pull it down as you walk back on the mast.
3. Disconnect the power, control and AV-LANC connectors from the camera.
4. Remove the Camera and remove the quick release plate from the camera and reconnect it to the head assembly.
5. Remove the Camera Head Assembly.
6. Remove the rest bar from the Head assembly. Store the rest bar and the Head assembly in the case.

7. At the bottom of the Top mast section, Twist counter clockwise to disengage the J-hook. Collapse the top section.
8. At the Bottom of the 2<sup>nd</sup> Mast section, twist counter clockwise to disengage the J-hook. Collapse the middle section.
9. Remove the Velcro strap keeping the Control cable attached to the mast.
10. Coil and store the Control cable in the case.
11. With the Mast completely collapsed, walk the unit back up so the tripod is sitting securely on 3 legs on the ground.
12. Lift the Mast section out of the Tripod
13. Loosen the Control arm and remove it from the mast. Store the Control Arm.
14. Loosen the Monitor assembly and remove it from the mast. Store the Monitor Assembly.
15. Fold up the tripod and Store the Tripod. You may purchase an optional RoverCam 30 bag to store the tripod and mast.
16. Store the mast. You may purchase an optional RoverCam 30 bag to store the tripod and mast.

### **1.7 Charging the RoverCam 30**

You have been supplied a battery charger with the RoverCam 30. You can plug the battery to the charger cable to charge the battery, and plug the other end into an electrical outlet. To get a full charge, charge the unit 8 hours.



*Picture of the RoverCam battery charger and Battery side by side. Connect the Charger end to the battery, the other end to an electrical outlet.*

### **1.8 Using the RoverCam 30 with the Air Potato**

If you have purchased the RoverCam 30 with the Air Potato, the backside of your monitor's junction box will have a switch with two positions. The AP switch will set your air potato to control the RoverCam 30. The RV Switch will set your RoverCam to be a standalone unit.

To allow the Air Potato to function, the switch must be in the AP position. If you want the RoverCam to function as a standalone product, it must be in the RV position



*Picture of the Air Potato/RoverCam switch for those customers that have purchased the RoverCam 30 with the Air Potato*

### **1.9 Reminders for the RoverCam 30**

Please make sure of the following when using the RoverCam 30:

- Make sure the **battery is charged**. (Do **NOT** charge the battery for more than 16 hrs. at 1 time)
- Make sure all of **your connections are connected** securely.
- Make sure you have **media to record on**. (HDD, Internal Memory, SD, or Tape)
- Make sure the **lens cap is open**
- Make sure **the monitor is powered on**.
- Make sure the input to the **monitor is set to AV1**.
- Make sure **the camera is turned on or the LCD door is open**.
- Make sure that the J-Hook Locks for each section securely when expanding the Mast section. Do not put the RoverCam 30 up without verifying this.

- Battery must be charged at least once a month or the battery can be damaged.
- Close and secure the box lid on the monitor so the monitor will be more difficult to damage.
- Do not leave the camera attached to the head assembly.
- Do not leave the quick release plate on the bottom of the camera. Store it in the head assembly.
- Store all RoverCam 30 components together.
- **Once you have the Rover30 upright, slightly lift up on each leg and lift it an inch off the ground and let it down. This will center the mast and make it much easier to pan the system. If you do not do this, it will make it harder to pan.**
- Make sure you have Demo mode off on the camera. Consult the camera manual for steps on turning Demo mode off.
- Make sure you have Power save off on the camera. Consult the camera manual for steps on turning Power save off.

## **2.0 Additional Add-ons for the RoverCam 30**

There are multiple different add-ons for RoverCam 30.

- Wireless remote control
- Air potato
- Hand-held Potato
- Battery charger
- Batteries

### **2.1 Contact Us**

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