

Your ION Advantage comes to you including:

- Micro sized (2 ounce, 3" x 1 ¼ ") device produces crisp, H.264, 1280 x 780 videos @ 30fps
- Mounting accessories including Velcro for secure temporary mounting applications and solid plastic bracket when camera will be in hard, rough, and fast environments.
- 2 End Caps (see information on "End Caps" contained in this User Manual)
- USB Cable
- One Year Limited Warranty
- Micro SDHC 8GB class 10 card



To get the best performance from the ION Advantage recorder...

Use a class 10 micro SDHC card for best results from PNY. Using a lower than Class 10 will result in diminished quality of action sports videos and recording fast moving objects. Your ION Advantage functions optimally in outdoor daylight environments. CMOS (complimentary metal-oxide semiconductor) sensors are NOT known for recording well in low light. Therefore, videos without adequate supplemental lights will be grainy and pixilated.

In the event that you get snow, mud, dirt, etc. in the recessed lens opening DO NOT RUB the surface of the lens cover before gently flushing it with water first.

Before flushing with water, install the End Cap that does not have any holes (used for submersible videos without Audio). BE SURE THE END CAP IS TIGHT and the O-rings are inside the cap and on the camera thread. With this special End Cap installed, the ION Advantage is now waterproof, so use plenty of water. Flush it several times before blowing

air into the opening, doing so will soften the debris and remove the dirt or mud. DO NOT DRY RUB the opening, it will ruin the lens cover.



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Product Specifications



USB	USB 2.0
Weight	32.5g
Resolution	1280 x 720p
Video Format	H.264
Recording Speed	30fps
Pixels	3 Megs
Power Supply	Embedded 500mAh Li-polymer Battery
Power Duration	1.5 – 2.5hrs
Memory	Supports up to 32GB Micro SDHC Card
Submersion	To 20' with special End Cap
Working Temp	-23 degrees F/ 104 degrees F
Storage Temp	-4 degrees F / 176 degrees F
Power Consumption	<1W
Photographing Angle	63 degrees Standard lens, 135 degrees Wide Angle lens
Player	We Recommend using VLC Player www.videolan.org
Operating System	Windows 98/ 2000/ ME/ XP/ Vista/ 7/ Mac OS 10.5

BATTERY

INITIAL USE: The first (3) times you charge your ION Advantage, you should charge your device for 3 hours max but less than 6 hours for maximum charging. **For maximum life of the battery, drain your battery completely by running the device with a card inserted until the battery is dead. Then charge for at least 3 hours but less than 6 hours.**

Future charges should only take 1-2 hours. When recharging your ION Advantage, the LED Indicator will be red. When the charge is complete, the LED indicator will be green.

To charge your ION HD PVR remove the End Cap from the back of the camera. Insert USB Data cable into the USB slot in camera. Next, connect other end of USB cable to USB port on your PC or Laptop. **OPTION:** You may charge using a 5V 500 MA AC charger; or by vehicle's cigarette lighter charger with a mini USB type connector like an iPod charger will also work.



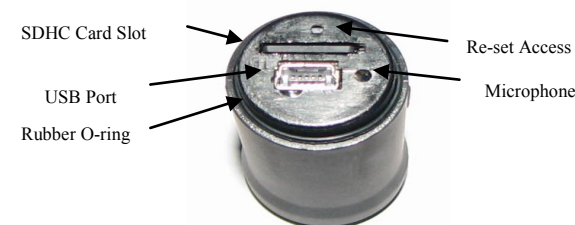
"ION" HD Advantage



READ This User Manual First

The JonesCAM ION Advantage is the smallest waterproof, shockproof High Definition (HD) video recorder available. It supports up to a 32GB micro SDHC memory card. It easily connects with virtually all PC and Laptop computers. No drivers are needed. Your computer will recognize the new device automatically. It doesn't get any easier. The product is designed for extreme, recreational sports and camcorder type applications. One momentary push of the button turns the recorder ON and OFF. Never miss those special moments in life! Hands free video recording! **Up to 2 hours of 720P HD resolution with an 8GB class 10 micro**

View with End Cap Removed



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OPERATION

A. Turning ON/Recording

Start recording by pressing the ON/OFF button once for one second. The Green led will come on and stay on, the blue LED light will flash indicating that recording has begun. NOTE: Your ION Advantage has no internal memory of its own. If the card is not in the device or fully inserted and locked into the card slot the green –blue lights will come on for a few seconds and then flash red and turn off. At the time check to see if the card is locked inside the device. If not gently take your finger nail or a small blunt object and push the card in so it locks inside the device. The card should not be sticking out side of the back of the camera.

B. Turning OFF

Press the ON/OFF button one more time to end recording. The ION Advantage will save your recorded data and power off automatically.

If device fails to work remove End Cap and take a blunt wire, paper clip, etc. and gently Insert In the reset hole above the USB port. You will feel a small micro switch inside which will depress when the wire is inserted. DO NOT use a pin or any other pointed object for this system re-set.

IMPORTANT: The microphone opening is the larger hole next to the USB opening. DO NOT STICK anything in this hole, it will ruin the microphone and void your 1 year warranty.

C. Restarting camera

Please allow 10 Seconds between restarts to allow the device to complete its cycle.

CAUTION: DO NOT record directly toward the sun. It will damage the ION Advantage. This is true with almost all cameras and recorders.

MEMORY CARD

Your ION Advantage has no internal memory of its own but supports up to a 32GB micro SDHC card. When the micro SD card is full or if there isn't a card in the slot, the blue and green LED lights will come on for 1-2 seconds and then go off and save the data on the micro SDHC card. A Class 10 Micro SDHC card is provided with camera purchase to assure you the best video quality .

Turn off the ION Advantage before removing the Micro SD card to avoid the loss of data or damage to your Micro SD card or the device. All Micro SDHC card must be formatted before being first used.

PC / LAPTOP CONNECTION

DOWNLOADING VIDEOS: No disc or special software is needed. Remove ION Advantage End Cap to access USB port. First insert the USB cable to camera; then connect cable to your PC or Laptop. Computer will recognize the newly inserted device and install the drivers as needed. This may take a moment or two.

After this initial connection a window opens prompting you to “Open or view files”. Next, in a new window you will see a folder called "DCIM" click on that file, then you will see a file called 100MEDIA open that and you will see the files of the videos you have recorded with the video files you have recorded. Now you're ready to download to your computer. You can copy, save and edit on your computer's hard drive. When finished playing or transferring, close the connection via your computer browser and then remove the USB cord and replace End Cap.

System Requirements

CPU must be minimum 2 GHz Dual-core or better
Operating system: Windows 98/Me/2000/XP/Vista/7/Mac OS 10.5
USB 2.0 Slot
Minimum 10GB hard drive free space.
Minimum 1 GB memory

We recommend using VLC media player for best results. This is a free download and can be found at www.videolan.org/vlc/.

END CAPS



Your ION Advantage is equipped with an End Cap with a threaded insert compatible with standard camera tri-pod mounting. Removal of this End Cap provides access to SD Card slot, USB port, and is where the microphone is protected from weather and moisture.

TWO END CAPS: Your ION Advantage comes with 2 End Caps. One End Cap has 6 holes for max Audio recording, but camera is not fully waterproof. A 2nd End Cap does not have any holes and, when installed, make the camera submersible but recording of Audio will be very restricted. **When you receive your camera, please unscrew the End Cap before use and make sure that there is a waterproof rubber O-ring is installed and in good condition.** A supply of replacement O-rings has been provided with your camera. A very light coating of petroleum jelly applied to the rubber O-ring will enhance waterproof and the life of the O-ring.

NOTE: BEFORE UNDERWATER USE– Replace existing O-ring with a new one sent with camera. Existing O-ring can become fatigued over time from repeated install and removal of End Cap and could allow moisture seepage when camera submerged. In addition, even if camera will not be submerged it's recommended that O-ring be changed out after each 90-days of normal use. Use of a very light coating of petroleum jelly on O-ring and threads can enhance water resistance and O-ring durability.

