

# INSTRUCTION MANUAL

## Online with the Orion® AllSky Camera II

#52191 (NTSC) #52197 (PAL)



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The purpose of this manual is to explain how to use Orion HandyAVI SE software to broadcast live views over the internet using the Orion AllSky Camera II.

The Orion Video Capture Device (included with the AllSky Camera II) is compatible with many useful software applications such as Handy AVI, UFO capture and online streaming services. Search the web for “free online video streaming and broadcasting”.

Many website creation tools give the user an option to load a particular still image or recorded movie for inclusion onto a personal website. This is by far the easiest method, but to broadcast a real-time live view, a personal website with standard FTP features will need to be used.

Please read the Orion AllSky Camera II manual and HandyAVI SE manual first before proceeding.

## Automatically adding Live Images to Personal Websites

The simplest method to show your local sky to others via the World Wide Web is to setup Orion HandyAVI software to automatically take a single image (in bmp or jpg format) periodically and then automatically send that image via FTP (File Transfer Protocol) to a location on your website.

This efficient method will only take up the amount of hard drive space for a single image on user’s web site since an updated image will replace the previous one.

The frequency of image transfer can be tuned according to users internet speed for best results.

The actual webpage itself (HTML) can periodically update the image so that users do not need to press the refresh button.

This is the preferred method of using the Orion AllSky Camera II to view live weather conditions at remote locations such as an observatory.

### How to Set Up HandyAVI SE Software to FTP an Image

Select Time-Lapse Capture and set option to take one frame periodically – in this example one frame taken every 60 seconds

Next click Setup FTP to enter your specific FTP information for your website. You may need to speak with your service provider if you do not know how to setup your website to use an FTP account.

Enter Server name, User name, Password, Port number (normally 21) and remote directory. Click the Test Button to upload a test file and check that all information has been entered correctly.

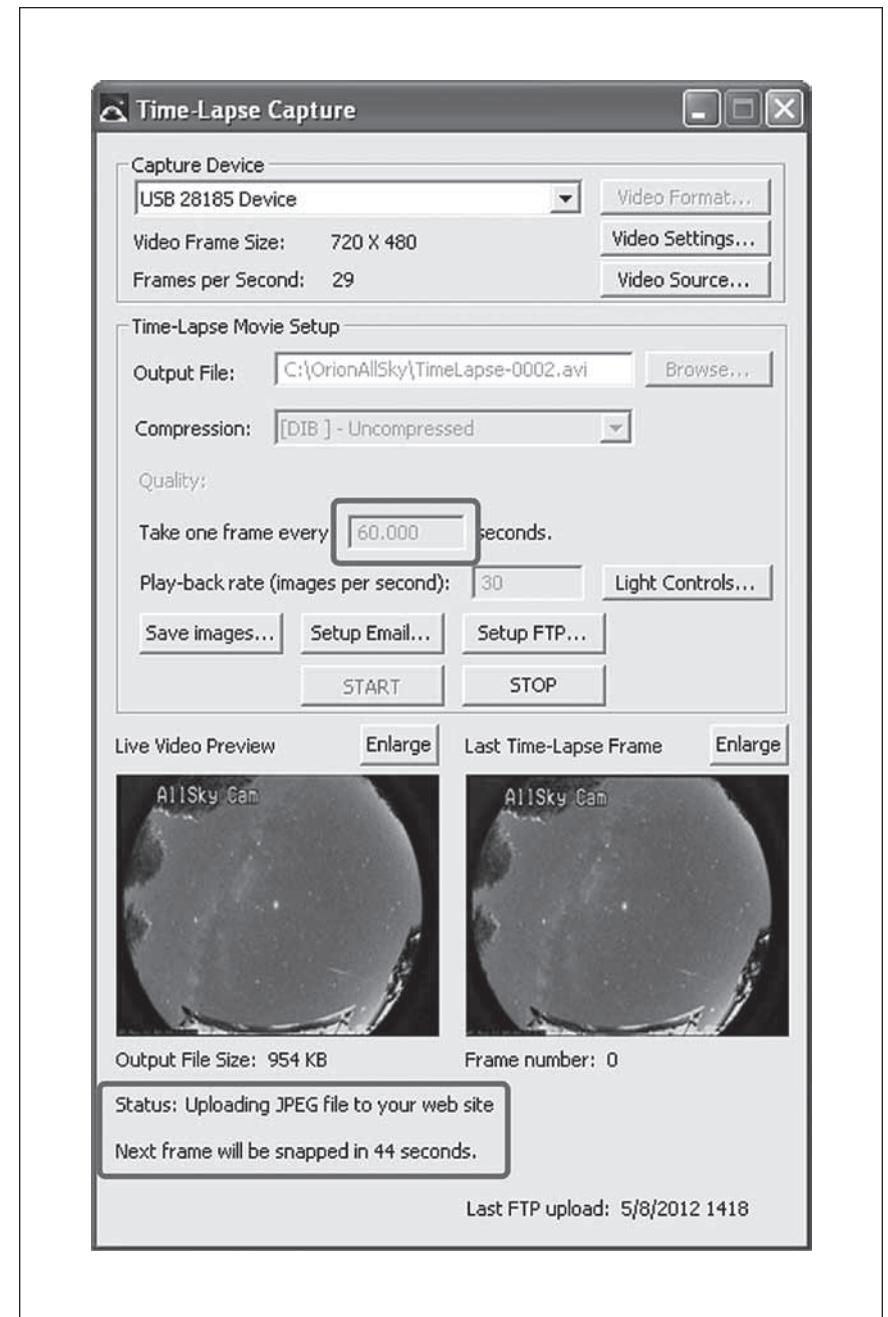


Figure 1.

Note the checkbox for Active or Passive – Some ISPs are blocking “Active” connections. Check this box to change to “Passive” if you need a “Passive” connection.

Select checkbox to tell Orion HandyAVI to upload a JPEG image file and call it timelapse.jpg

Go to preferences and select recycle files option. In order to run 24/7 365 days a week continually to keep uploading image files “Recycle files” should be used to avoid running out of disk space (since AVI files will still be created when capturing still images so we will recycle the AVI files).

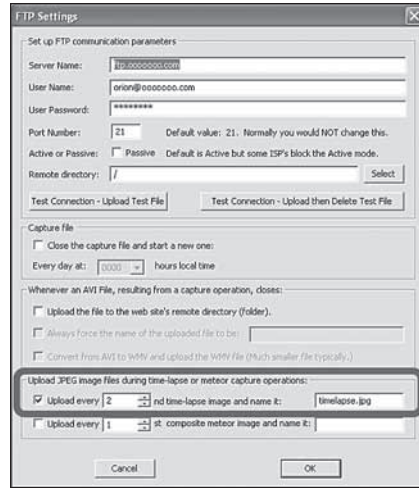


Figure 2.

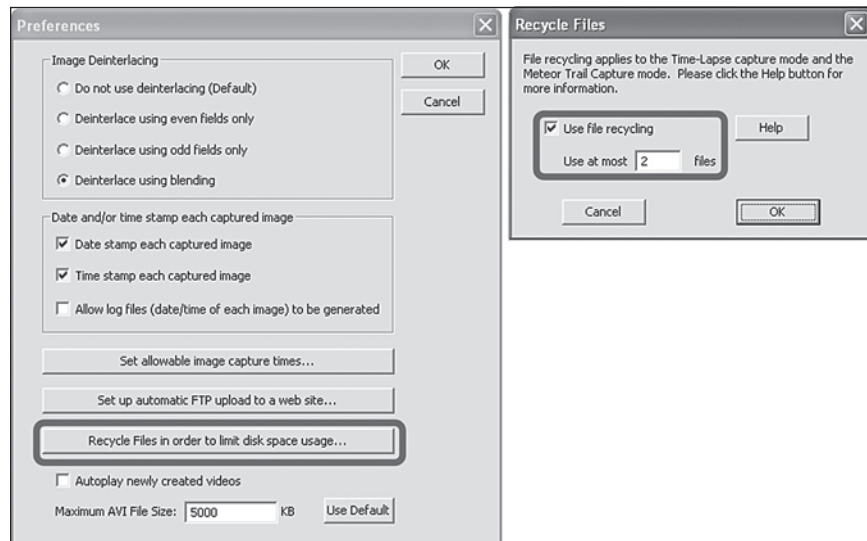


Figure 3.

Press Start to begin capturing images periodically and transfer them automatically to your website.

You would now need to have a webpage setup that would include the FTP image.

For example a simple HTML page only needs to include the following commands:

```
<meta http-equiv="refresh" content="60" >

```

Line 1 – Sets the automatic refresh of webpage to refresh itself every 60 seconds (load latest image). This should be same as the frequency of image capture settings (or longer to prevent updating an image at same time it is being displayed).

Line 2 – Setup to display an image named “timelapse.jpg”

You should now have HandyAVI running automatically and have a webpage created to load the FTP image periodically.

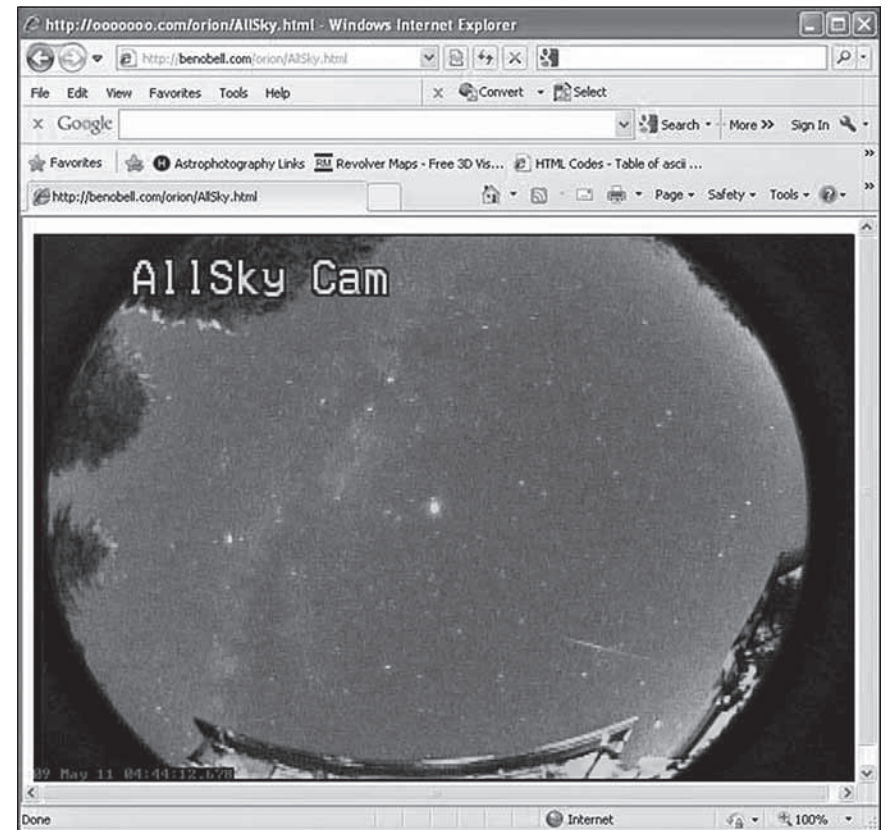


Figure 4.

This method should provide an automatic upload of images continuously year round.

- **Embedded Movies**

Previously captured movies (AVI's) can be embedded into web pages.

This method may not work in all browsers.

For best results conversion of AVI to FLV (flash) has been seen to be the most compatible solution for all browsers. This requires knowledge and purchase of Adobe's flash tools.

- **Meteor Detection**

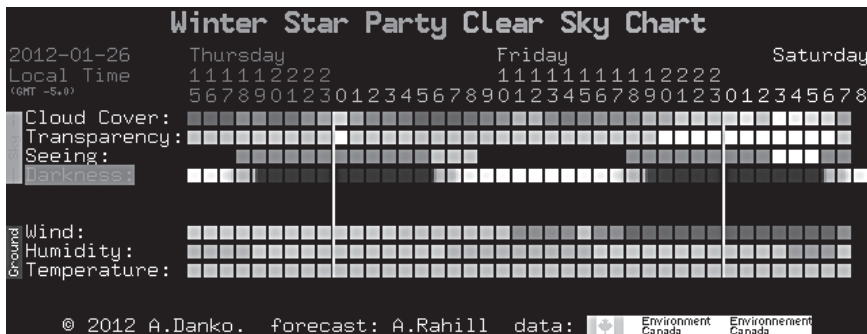
HandyAVI SE allows meteor detection software to either FTP or email the results of a meteor detection (images or movie).

Please read HandyAVI SE manual for details.

### **Additional modules to enhance personal sites**

**Local Clear Sky Chart** – Add a clear sky chart to your website

Visit website for details: <http://www.cleardarksky.com/csk/>



**Moon Phase** – Add a moon phase module to your website

Visit website for details:

[http://www.moonconnection.com/moon\\_module.phtml](http://www.moonconnection.com/moon_module.phtml)

Other modules such as Visitor maps, Date/Time and Local Weather updates can also be added to your AllSky website.

### **One-Year Limited Warranty**

This Orion product is warranted against defects in materials or workmanship for a period of one year from the date of purchase. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion's option, any warranted instrument that proves to be defective, provided it is returned postage paid. Proof of purchase (such as a copy of the original receipt) is required. This warranty is only valid in the country of purchase.

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