



## A Guide to Using the Solar Telescope and Camera Attachment

This guide is intended to help you set up and troubleshoot your Coronado Personal Solar Telescope and camera attachment.

### Initial set up (lens):

- 1) Insure that the telescope tripod is set up and securely linked with the central support triangle. Screw in the two adjustment knobs by inserting them into the bayonet fixings and turning the locking screw clockwise.



- 2) Attach the camera mount to the bottom of the telescope. Loosen the bolt on the top and slide the mount into the fixing, tightening the bolt once it is in place.



- 3) Insert the viewing eyepiece into the holder and screw it in place. Remove the cap from the front end of the telescope.



- 4) Hope for Sun! Use the adjustment knobs to tilt the telescope up and across in the direction of the Sun. Then look in the Sun finder (on the top of the telescope next to the eyepiece) and make small adjustments until a bright dot appears in the centre of the finder.



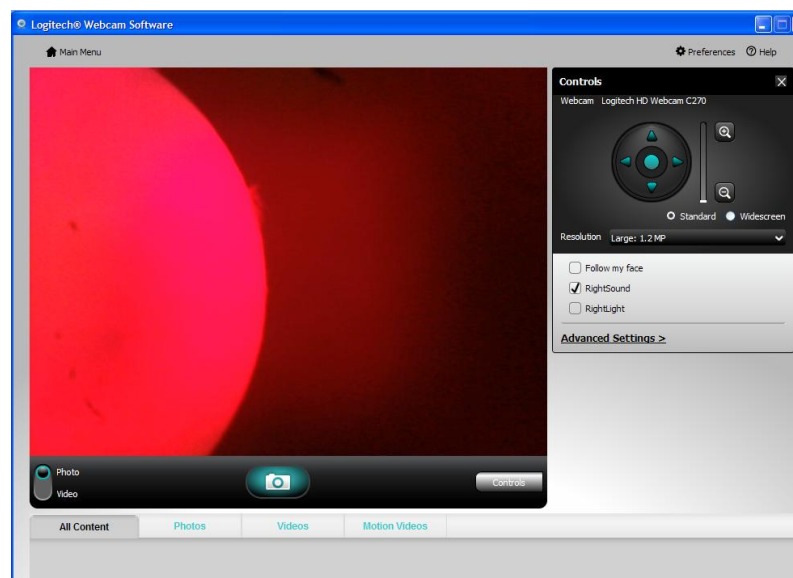
- 5) Now look through the eyepiece and you should be able to see the Sun. Continue to make small adjustments to the tracking tilt to follow the Sun as it moves across the sky. You can adjust the selector ring at the front of the telescope and the adjuster knob at the back of the telescope to bring prominences and sunspots into focus.

## Camera Set Up:

- 1) Install the Logitech webcam software on the computer you wish the telescope to be connected to (please note that the camera will need to be linked to the computer during this process).
- 2) Remove the tape from the aperture of the camera attachment. Remove the eyepiece from the telescope and replace it with the camera attachment, making sure to screw it into place as flush with the holder as you can.

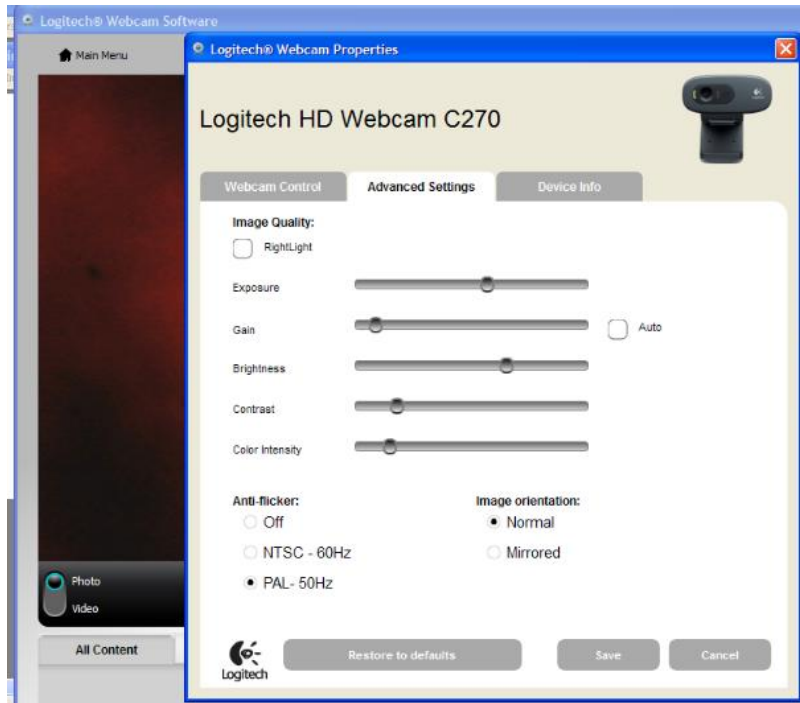


- 3) Connect the camera to the computer and fire up the webcam viewer.
- 4) Locate and centre the Sun as before until an image appears on the screen, and use the selector knobs to bring any prominences into focus.



- 5) Make sure that 'follow my face' and 'Rightlight' are unchecked in the controls box.
- 6) To alter the image, click on the advance options link in the control box and alter the settings to get the best picture you can (please note that the image WILL NOT be as good as the image you can see by eye). For reference I have included the settings that I use with this camera but the required settings will be different for different cameras). You will need to un-tick the auto box in the advanced settings tab.





## Troubleshooting

**Q)** Why can't I see anything when I look through the eyepiece?

**A)** Check that the cap is off. Make sure that the Sun is centred in the Sun finder. Slightly alter your viewing angle.

**Q)** How can I stop flaring on the image when using the camera?

**A)** If you have one of the white adapters, line the inside of the tube with matt black paper. Failing that, make sure that the contrast setting is not too high and that the brightness setting is not too low.

## Questions? Comments? Ideas?

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