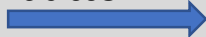


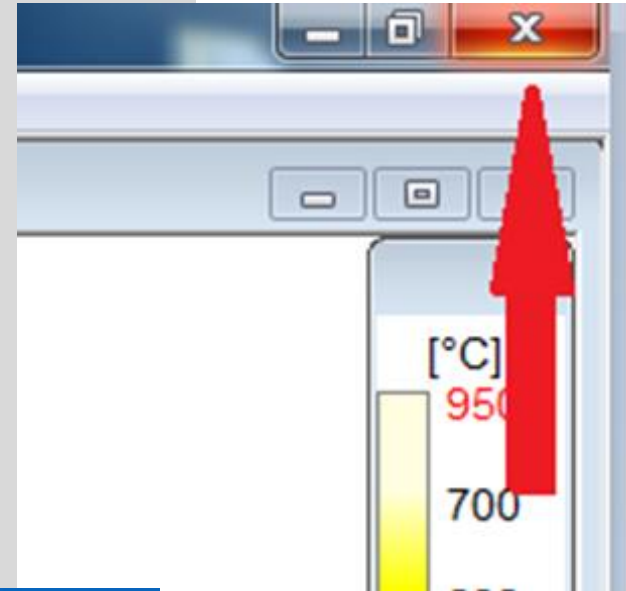
New “recipe” procedure for GS150 system

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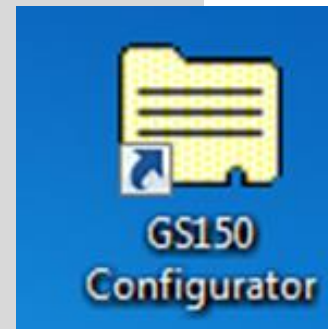
**Process
Instruments**

The easiest way to make a new recipe is by using the original recipe for uncoated/clear glass, and make adjustments to the emissivity value so that the image will match what you see for uncoated/clear glass.

Step 1- Close the GS150 runtime software. Click the X button in the upper right corner. 



Step 2- Select the GS150 configurator shortcut on the desk top. 



Step 3- Under the general tab, select “new”

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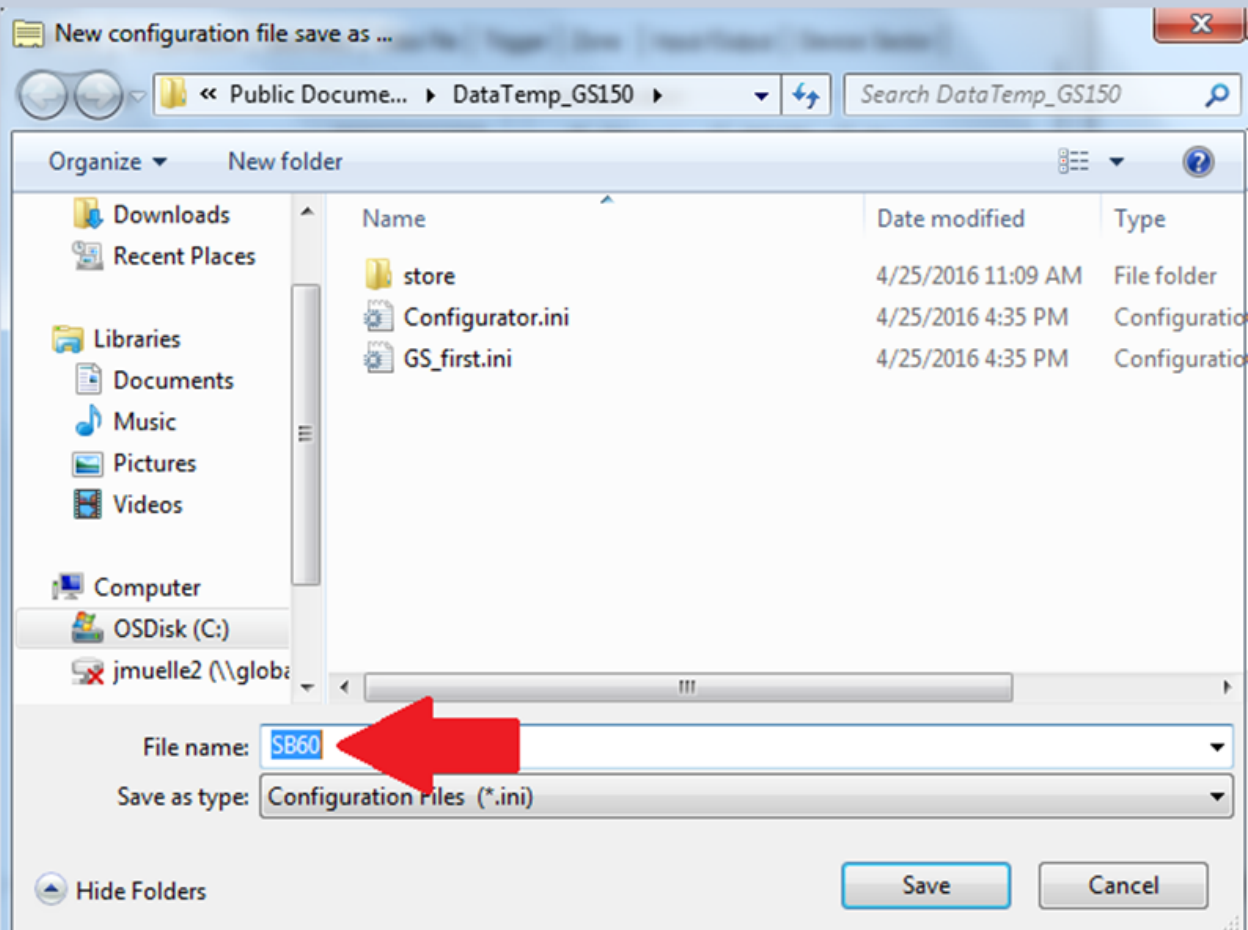
**Process
Instruments**

The screenshot shows the 'Configurator' window with the 'General' tab selected. The window is divided into several sections:

- Scanner:** Includes a 'Scan freq. [Hz]' dropdown set to '76', a 'Scanner commands' button, and a 'Device' section with radio buttons for 'MP50' and 'MP150' (selected).
- Communication:** Includes radio buttons for 'Ethernet' (selected), 'RS485', and 'None'. Below are fields for 'IP address' (192 . 168 . 42 . 30) and 'Port' (2727). Further down are 'Port' (None) and 'Baud rate' (115200) dropdowns.
- Description:** A text field containing 'Uncoated'.
- Name of Scanner:** A text field containing 'Land Scanner'.
- Configuration:** Includes a '1. Scanner' dropdown, a 'New' button (highlighted with a red arrow), 'Open', and 'Delete' buttons. Below these is a file path: 'C:\Users\Public\Documents\DataTemp_GS150\GS_first.ini' and a 'Switch Configurations via Digital IO' button.
- User:** Includes a 'User' checkbox, 'Full Access' and 'Limited Access' radio buttons (with 'Limited Access' selected), a 'Change Password' button, and a language dropdown set to 'English'.

At the bottom of the window are 'OK', 'Cancel', and 'Apply' buttons.

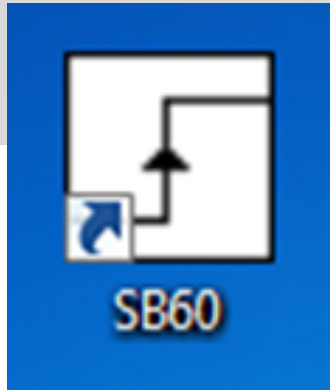
Step 4- Rename your file as the name of your new glass type.
For this example we will use SB60. Select save.




Step 5-Rename the shortcut to SB60 and also uncheck the box next to “start menu”.

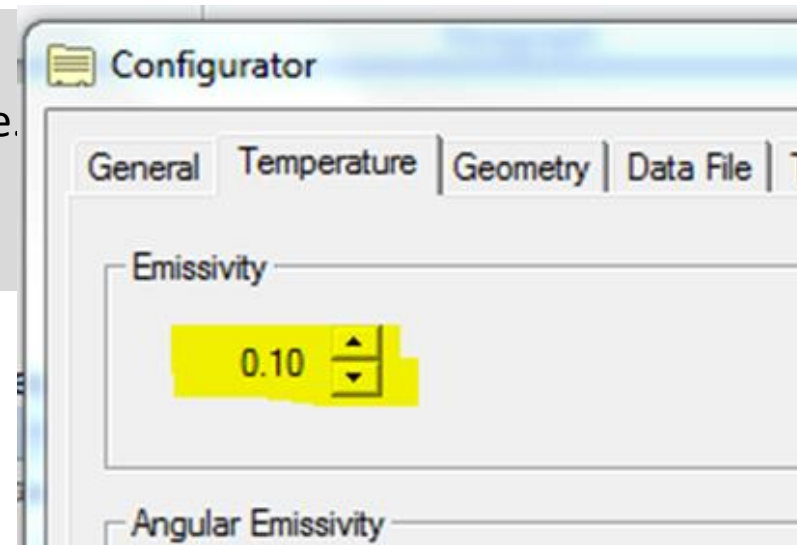


Step 6- Verify that you now have a new “SB60” shortcut on the desktop.




Step 7- You should also note that the new .ini file has been created on the configurator page.

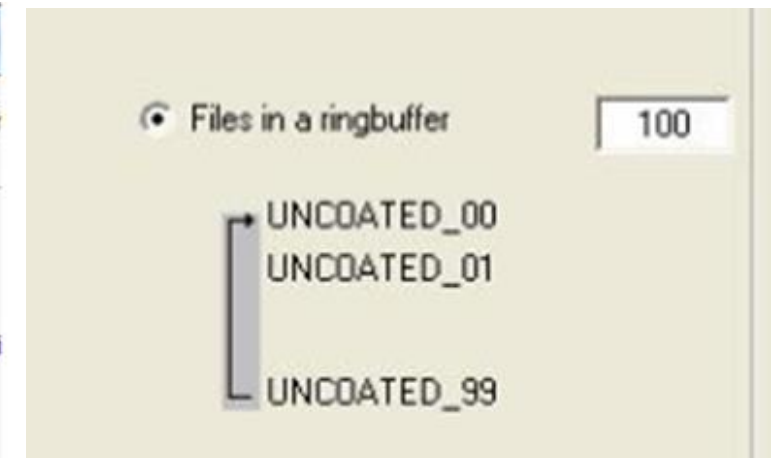
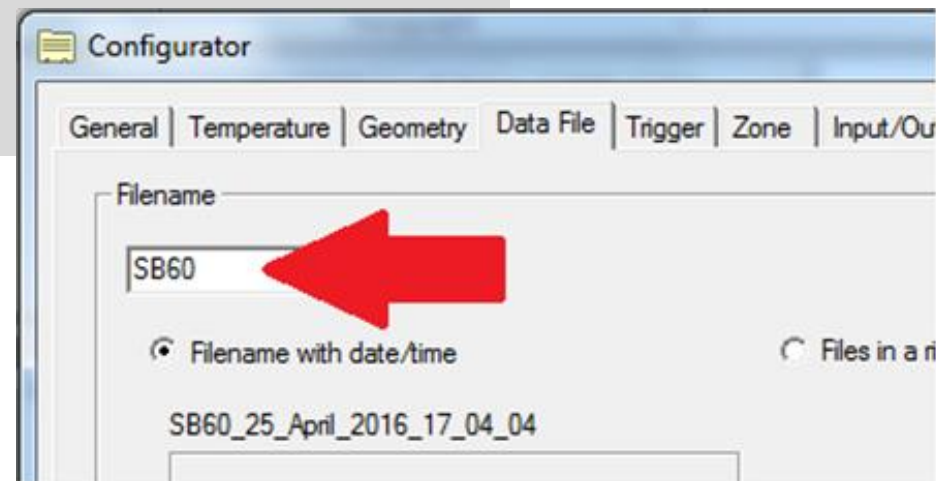
Step 8-Adjust the emissivity value to a value that is close to what the manufacturer recommends as their emissivity value. Most coated glass these days is in a range of .01-.50 when compared to uncoated glass (0.95). 



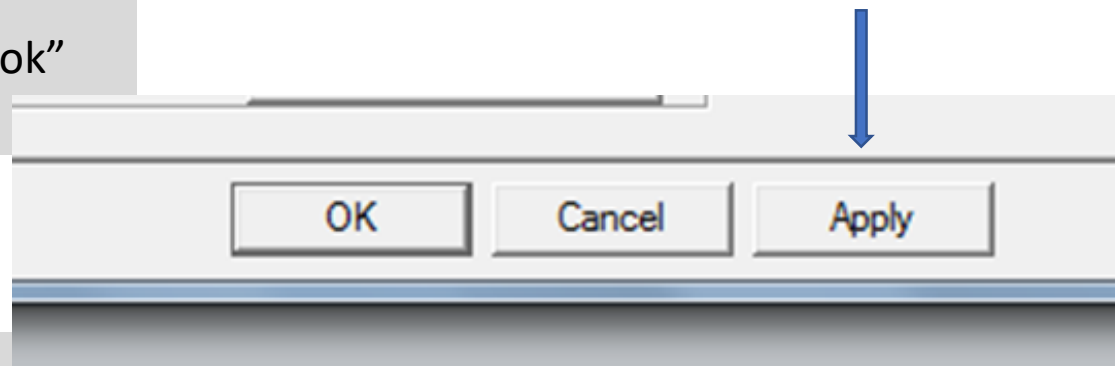
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Step 9-Under the data file tab, change the name to SB60. Verify that files in a ring buffer are selected. 



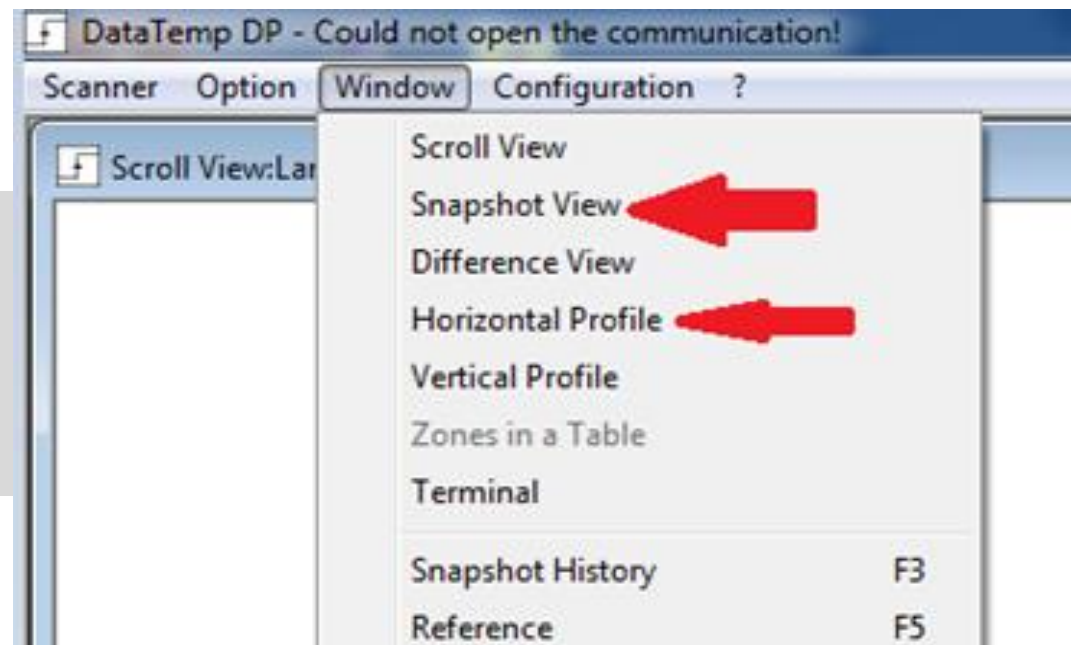
Step 10-Select “apply” and then “ok”



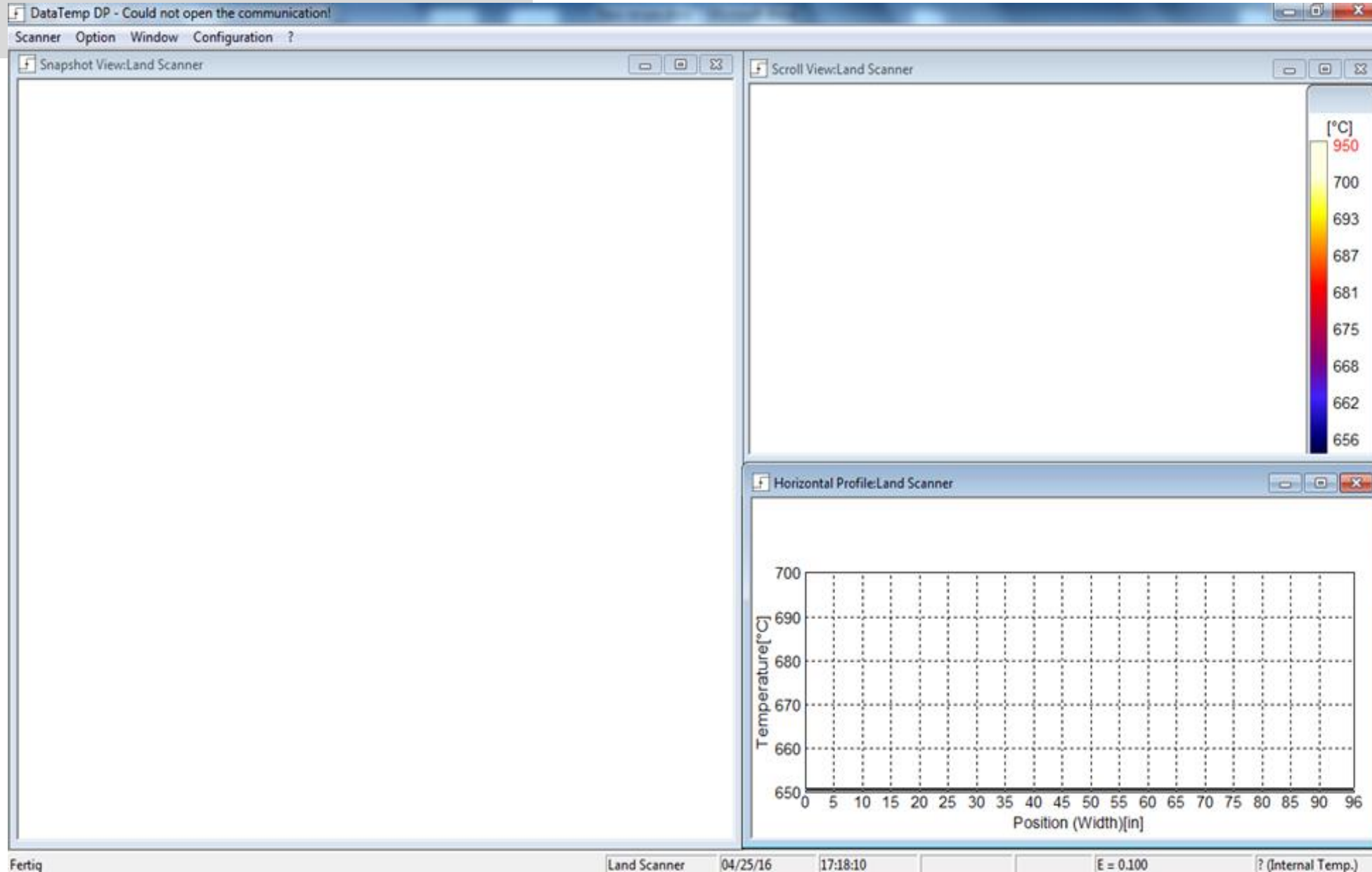
Step 11- Select the new SB60 icon on the desktop.



Step 12-Under the Window dropdown select Snapshot view and Horizontal profile view. Resize the windows to match your original screen view.



Step 12- Cont



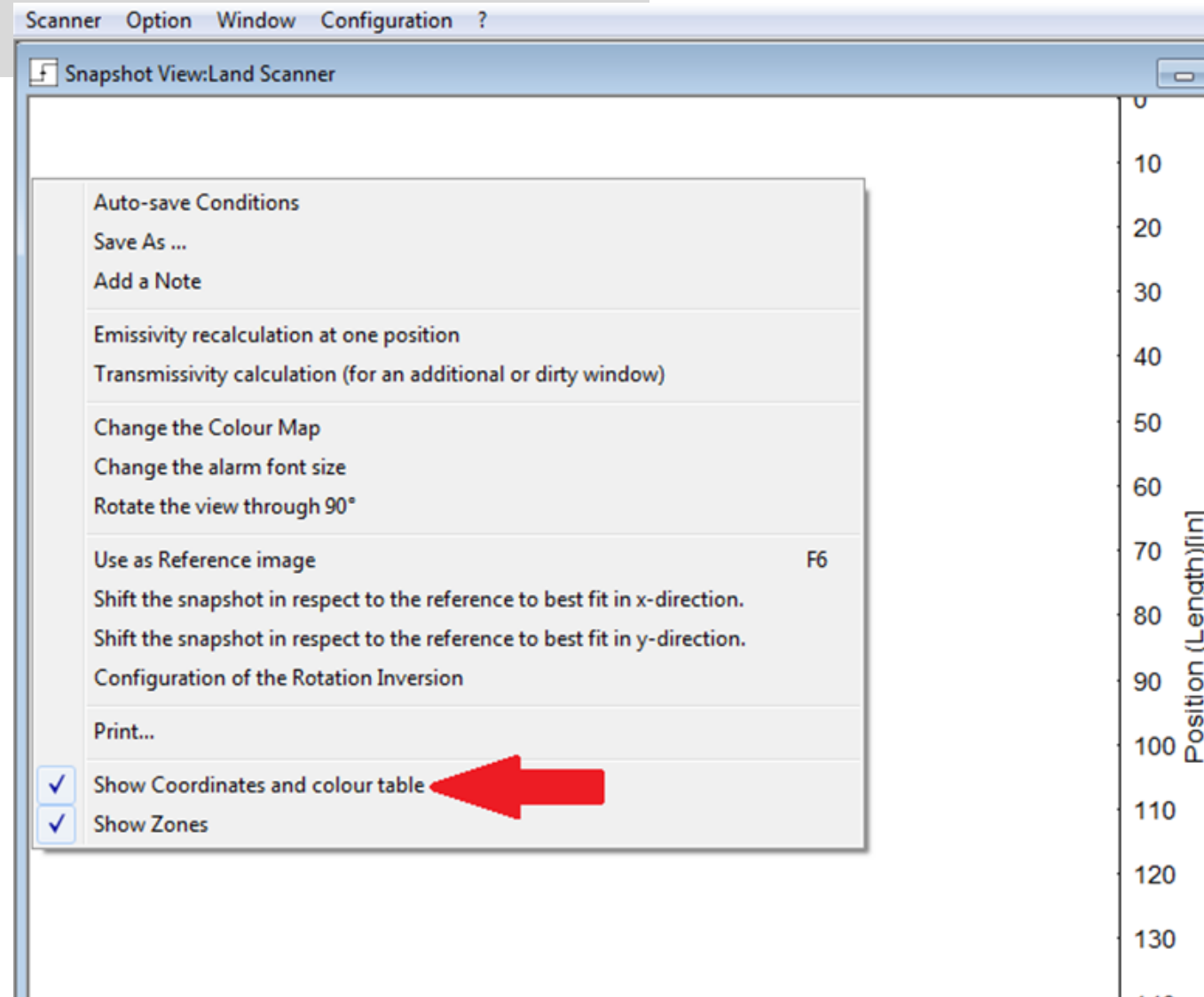
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Step 13-To get the dimensions in the Snapshot view window, Place your cursor anywhere in the window and right-click the mouse button. Select Show Coordinates and color table.

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Instruments**



You are now ready to run your new recipe!

Check the Auto-save Conditions “Count of 1” if you want to save every snapshot.



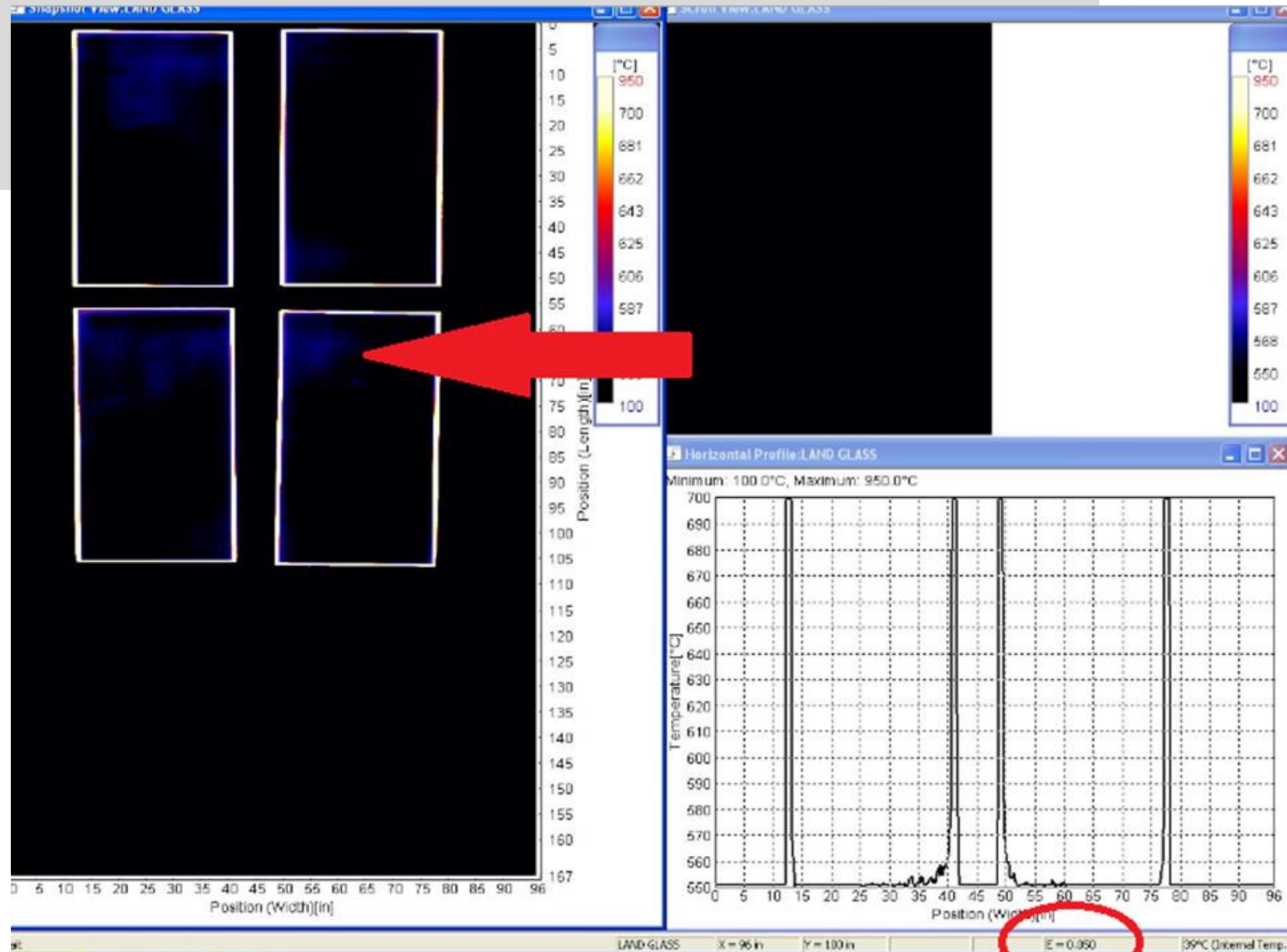
Adjusting your emissivity value

When setting up an emissivity value for a new recipe, I recommend setting it down to .20 for the first run of glass. Depending what image you get after the run will determine if you need to go lower or higher in value. Below are two examples of images that are set with incorrect emissivity values.

The first image is a screen shot of an image that is too cold.

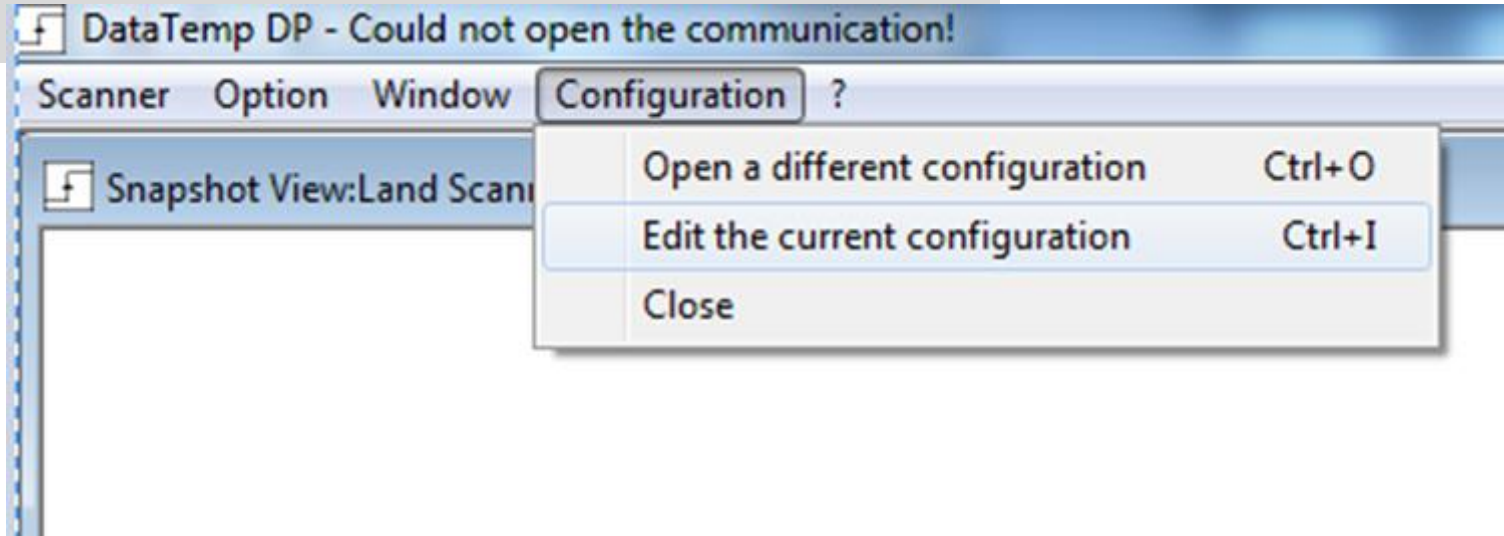
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Instruments



As you can see, I have the emissivity set to 0.05. In my actual snapshot image I'm barely able to see any temperature. In order to get my temperature to rise I will still need to lower my emissivity value. In this case I would lower it down to .02 and step it up incrementally towards my original value of .05.

To do that you need to select edit the current configuration.



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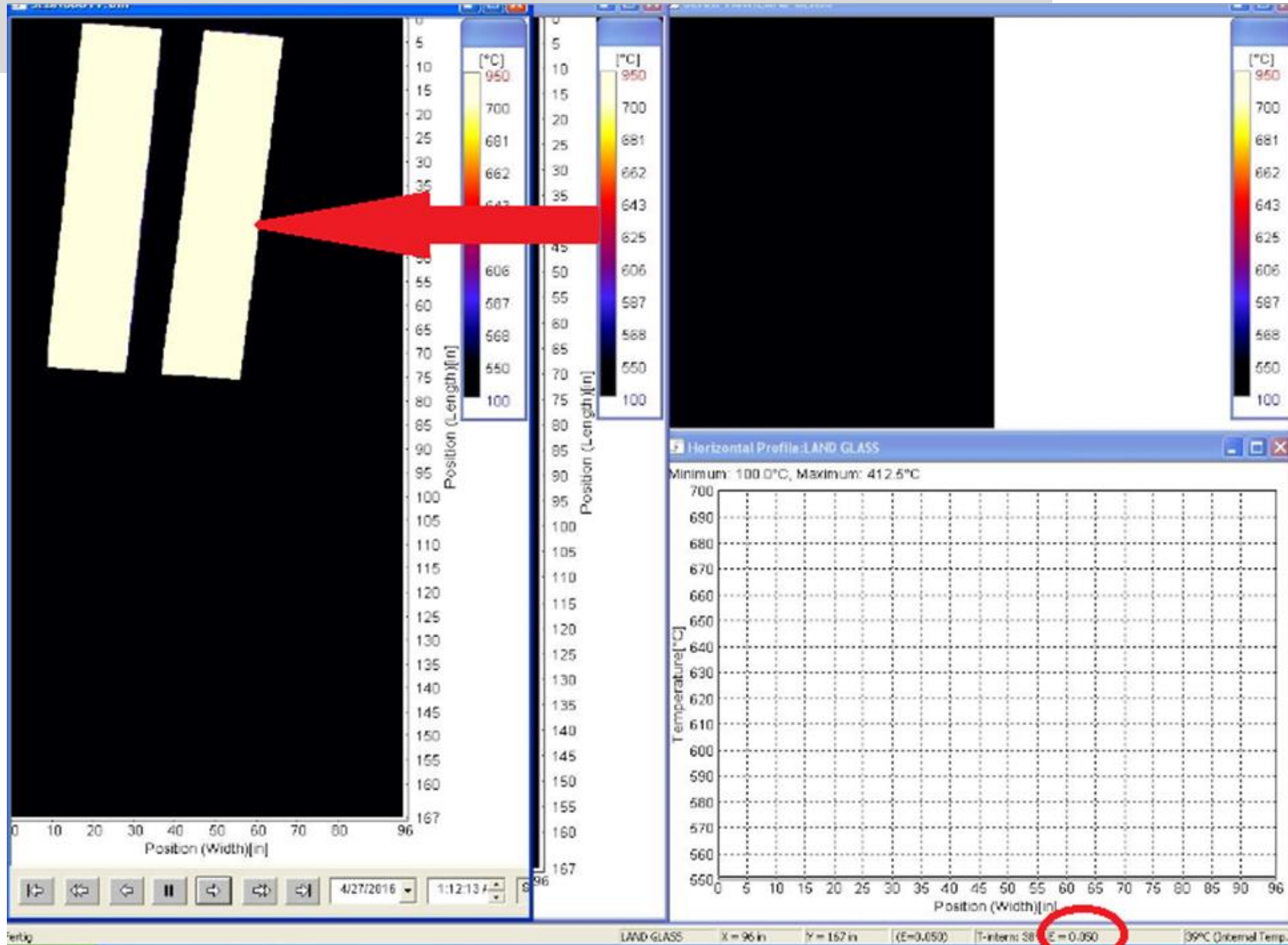
**Process
Instruments**

Repeat step 8 from above, and then select apply and OK. You can now run a load of the same glass and see if your image better matches what uncoated glass would look like. Repeat the step until you get an image that matches what uncoated glass looks like.

The image below is of glass that is too hot on your image.

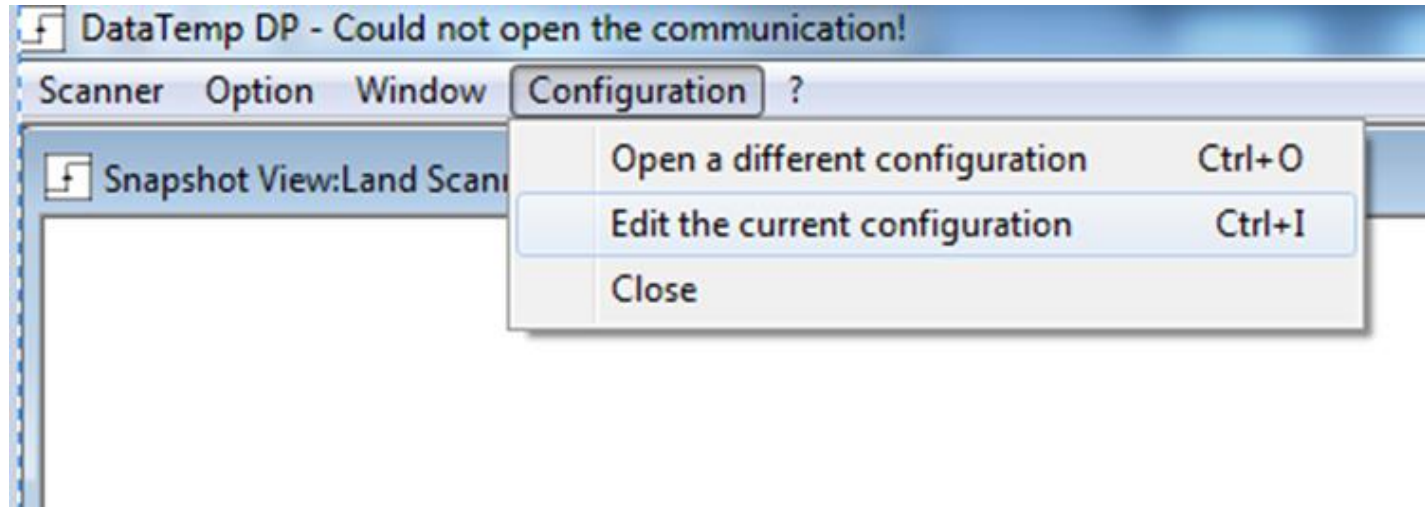
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Once again I have the emissivity set to 0.05, but this time my glass is showing as being over 700 degrees C. To make my temperature appear lower in my snapshot will require me to raise my emissivity value. I would raise the emissivity value by doing step 8 as above, and then look at my image after a second load of glass. Depending on my image, I will raise or lower my emissivity value until I see an image that looks like coated glass.

To do that you need to select edit the current configuration.



Repeat step 8 from above, and then select apply and OK. You can now run a load of the same glass and see if your image better matches what uncoated glass would look like. Repeat the step until you get an image that matches what uncoated glass looks like.

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