RUGELEY AND ARMITAGE CAMERA CLUB

RESIZING IMAGES FOR CLUB INTERNAL PDI COMPETITIONS

In order to be compatible with the projectors we will use in our internal competitions all images must be resized to be no wider than 1400 pixels or no higher than 1050 pixels. Therefore a Portrait orientated picture will be 1050 pixels high <u>maximum</u> and a Landscape orientated picture 1400 pixels wide <u>maximum</u>.(NOTE: External comps may need different sizes, but most are usually the same 1400 wide max and 1050 high max)

Images must be in the sRGB colour space.

Images must be 8 bit images

Images must have a resolution of 72 pixels / inch

Images must be flattened, high/maximum quality JPEG with 'recommended' file size less than 1MB.

Description below is for resizing using Photoshop/Elements. Other free resizing programmes are available on the internet and are easily downloaded. See appendix.

For Photoshop/Elements users the following process should be followed: -

1) Start with a high resolution image, not one which has been previously downsized. Good practice is to work on a copy of the image in order that the original remains in your file unaffected by this process!

2) Open image and create duplicate background layer.

3) Go to top menu of screen and click on **Image** then scroll down to **Resize** and **Image Size**.

4) Click **Image Size** and in the pop up box you will see two boxes and some tickable items. The top box is headed **Pixel Dimensions** and the second box is headed **Document Size**. We are going to use **Resolution** in the lower box and **Height** (for portrait format images) or **Width** (for landscape format images) in the upper box.

5) Ensure all the tickable boxes are ticked.

6) Go to **Document Size** box and double click in the **Resolution** box and make the number 72 pixels per inch. You will see that the height and width values in the **Pixel Dimensions** box above change in value as you alter the **Resolution** value. **IMPORTANT NOTE – ALTER THE RESOLUTION VALUE BEFORE GOING TO STEP (7)** If you alter the height or width box first then the resolution box will not alter. If you subsequently alter the resolution box the height and width will end up

being much smaller than you want and you will get a postage stamp size image projected on the screen!

7) **NOW** go to **Pixel Dimensions** box and to the **Height** for a portrait format image or the **Width** box for a landscape format image. Enter the value you need, either 1400 wide or 1050 high.

NOTE : When you alter height or width make sure that the maximum values are not exceeded. If they are (unlikely) then adjust the higher figure so that it comes down to the maximum allowed. The dimensions can be smaller but try to get as near as possible to one of the maximum dimensions (image format dependent). One of the numbers may be less than the maximum as picture format may not exactly fit these dimensions eg a panoramic landscape say 1400 wide and 900 pixels high. This is OK – DO NOT try and make the image 1050 pixels high as this will distort the image. Conversely,for a portrait if the image is 1050 high it will be less than 1400 wide do not try to make it 1400 wide (this would be a landscape). As it is portrait format its width will actually be less than 1050. Also note that if your image is a lot less than these dimensions say, 650 by 450 then your projected image will not look very good!

8) At the bottom of the pop up box is another box that has options for the best look of resizing. Use **Bicubic** if you are reducing image size (usual case) or **Bicubic Smoother** for enlargements. (You can use Bicubic Sharper for reductions but Bicubic is generally OK. Try it and see if you can detect a difference.)

9) Ensure image is in sRGB colour space. Go to the Top menu - open **Image** then **Convert Colour Profile** then **Convert to sRGB profile**. If this last box is greyed out then your image is already in sRGB colour space. Unless you have specifically set your camera to Adobe RGB or shot in RAW the image is normally in sRGB but always check.

10) If you have been doing advanced Photoshop work and converted your image to a 16 bit image then convert it back to an 8 bit image before saving. (Image / Mode /8 bits per channel)

11) Add a thin white border to your image if you wish. This is good as the projected background is usually black and the white border then defines the outline of your image – particularly if you have a dark image.Use Edit / Stroke (outline) Selection. (Some eternal competitions specify no borders)

12) Sharpen Image if required. Care needed - easy to oversharpen and have halos round parts of image when projected.

13) Flatten Image. Go to top menu **Layer** then click **Flatten Image**.

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14) Save image as a high/maximum quality JPEG – file size ideally less than 1MB but not mandatory. Use slider in JPEG options box during save process to adjust file size if necessary. Large files take longer to load and slow things down. File to be named in line with competition rules – usual format is a Number and then Title eg 1 Mountain in Winter : 2 Michelle. In Photoshop Save As dialogue box ensure ICC profile box is ticked.

APPENDIX

There are many free downloads of resizing programmes on the internet. Listed are some which I have been advised are free and easy to use.

http://www.fotosizer.com

http://www.wnsoft.com/files/soft/MultiResize.exe

http://picasa.google.com Also a useful picture editor for free.

http://help.photobiz.com/kb/index.php?View=entry&EntryID=60