

Northallerton Camera Club

Projected Digital Image (PDI) Presentation for Club Competitions

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1 Overview

1.1 Introduction

This document describes the standards for entry of Digital Images into Projected Imaging Competitions within the Northallerton Camera Club. It replaces any previously published standards. Note that Print Entries should be submitted to the Print Competitions Secretary, and generally comprise up to three prints. Please refer to the Club Rules for Print entry details.

1.2 Club Equipment

The club projects digital images using a laptop, projector and screen. The current projector has a native resolution of 1024 pixels wide and 768 pixels high.

1.3 Calibration

The club equipment should be regularly calibrated to a known standard, using commonly available calibration equipment. The Calibration process is outside of the scope of this document, but is mentioned for reference purposes.

1.4 Colour Space

Members may enter images using any colour space. However, the projection of images that do not reference a colour space, or use a colour space different from sRGB may not project as expected.

In general, images will not be altered by the Competition Secretary, once entered. However, members may be advised if images have an issue that renders them unusable for the competition. It is assumed that the projection process (using digital equipment) adheres to the standard sRGB colour space (defined in IEC61966-2).

1.5 Entry Methods

Entries to all competitions may be brought to club nights on a memory-stick or CD for copying. Be aware that the competition secretary may not be able to attend all club evenings. The preferred method of entry is therefore by email for all competitions.

Please send your e-mail entries to the Projected Images Competition Secretary at :

chrismorton147@btinternet.com

Entries for the Annual Exhibitions must sent be to the Annual Exhibitions Secretary in accordance with the published entry forms for that event.

2 Entry Numbers (PDI Sections)

2.1 How many images can I enter?

For all competitions except the Annual Exhibition and the Millennium Trophy, you may enter up to three images. These can be any combination of slides and digital images, but no more than three in total, i.e. you can enter the following:

Members Nights Maximum Entry
3 Digital Images
2 Digital Images and 1 Slide
1 Digital Image and 2 Slides
3 Slides

You may enter fewer than this number in all competitions except the Millennium Trophy.

2.2 Millennium Trophy

You must enter a panel (set) of either three Digital Images or three Slides, in addition to the print section. No other entry is acceptable.

2.3 Annual Exhibition

You may enter up to five Projected Digital Images. i.e., your maximum entry into the Annual Exhibition is the following combination of slides and digital images:

Annual Exhibition Maximum Entry
5 Digital Images
4 Digital Images and 1 Slide
3 Digital Images and 2 Slides
2 Digital Images and 3 Slides
1 Digital Image and 4 Slides
5 Slides

You may enter fewer than the maximum number of entries allowed. See the Annual Exhibition section later in this document for the sections you may enter.

3 Known Issues

3.1 Judges Equipment

It is assumed that judges have the necessary equipment to view digital images. It is possible that their equipment may be un-calibrated. This is an issue outside of the scope of the camera club, and although it may be seen as “the same for all entrants”, judging might be unknowingly influenced by this problem.

It is likely that judges may view and assess images on a monitor or laptop rather than projected on a screen. This is a known limitation and is an acceptable operation of the judging process.

3.2 Entrants Knowledge of Digital Imaging

Members are responsible for understanding and complying with the rules of entry. Members who are unsure of the correct process for preparing images for entry should contact a member of the committee for advice in advance of the entry closing date.

Entries may be submitted before the closing date. After the closing date, any entry not complying with the standards cannot be replaced. Such entries will be judged “as-is”.

3.3 Portrait Format Image Display

Unlike the display of prints or slides, images that are in portrait format (ie taller than they are wide) display less well in digital image competitions. This is because they will be less wide than an equivalent landscape format image. There is no bar to presenting portrait images, but entrants should be aware of this limitation.

4 Image Specifications

4.1 Image Specifications

The following table lists the Projected Digital Image (PDI) specifications for competition entry for Northallerton Camera Club.

Property	Value	Notes
Image Width	1024 pixels wide (maximum)	Projector native pixel size is 1024 x 768
Image Height	768 pixels high (maximum)	Projector native pixel size is 1024 x 768
Colour Space	sRGB	Images will be projected in the sRGB colour space.
Image Type	JPEG	This is the standard 8-bit JPEG (not to be confused with the rarely used 16 bit JPEG)
Colour bit depth	8 bit	Saving as a standard JPEG will create an 8 bits per colour image by default
File size	Any	1024x768 JPEG will usually be 500kbytes to 1Mbytes in size

4.2 JPEG Quality

Since the projector native resolution is 1024 x 768, you may find that a quality setting of “8” is adequate for competition digital entries. Saving at a higher quality setting increases file size, but may not increase discernable quality of the projected image.

4.3 Colour Space

The colour data in images is assumed to relate to, and will be projected in, sRGB. Images tagged with any other colour space may project differently than intended. However, failing to tag images with sRGB, or tagging images at all is not a reason to reject an image in a club competition.

4.4 Invalid Images

Any image that has an invalid colour space or size (wider than 1024 pixels, or taller than 768 pixels) will not be rejected, and will not be profiled/resized. It will be projected as presented.

5 Filenames

5.1 Scope

This covers all projected competitions for the 2010/2011 season and thereafter, including the Annual Exhibition PDI Competition.

5.1 Filenames

Filenames shall comprise the entrants' Christian name and Surname, followed by the Image Title, using spaces between the words. Note that there is no need to include the '.jpg' suffix – this will be added by your computer when it processes the image. Dashes, underscores, hashes etc are not required. It may help us if you use upper and lower case as shown in the examples below.

For the Millennium Trophy competition the showing order shall be indicated by adding a number after the entrants' name.

Examples are:

☐Chris Morton Belvedere Light.jpg

☐Steve Byard1 Castle rocks pool.jpg (for the Millennium Trophy)

5.3 Title size

Please limit your Image Title (not the whole file name) to a maximum of 25 characters.

6 Millennium Trophy PDI Entry

6.1 Overview

The Millennium Trophy comprises a named theme, chosen by the entrant, containing titled images. Although you may use the theme name for all three images, you can also have a theme name, and separate titles for each image.

6.2 Image Files

Image files are created in exactly the same way as all other competitions. The number that you place after your name in the filename indicates the order in which you wish the images to be viewed (i.e. 1,2, or 3). Each image filename includes a title for that image.

6.3 Theme Name

Create your three images, then, create a folder on your computer called <your theme name>. E.g. "Rivers".

The theme name should be concise.

Copy your three images into this folder, and copy the folder onto a memory stick or CD to hand to the competition secretary.

If you are emailing your files, then, in Microsoft Outlook, you cannot email the folder. Therefore, email the three files as attachments, and indicate your theme name in the email or email title bar.

7 Annual Exhibition Entries

7.1 Overview

The Annual Exhibition is made up of 7 sections:

Club
Intermediate
Pictorial
Record
Portrait
Action
Nature

You are allowed a maximum of 5 projected image entries into the competition which can be made up in any of the following ways:

5 digital images
4 digital images and 1 slide
3 digital images and 2 slide
2 digital images and 3 slide
1 digital images and 4 slide
5 slides

Each photographer must hand in an entry form, available from the Annual Competition secretary, with their images. The rules for the number of entries and the member class allowed in each section are on the entry form.

7.2 Image Files

Image files are created and named in exactly the same way as all other competitions.

7.3 Annual Exhibition Entries

Entries can be on memory sticks or CDs but it is preferable for images to be emailed to the Annual Exhibition Secretary, as described on the Annual Exhibition entry forms. The entry form can be emailed with the images or handed in separately.

8 Changing Colour Space

8.1 Overview

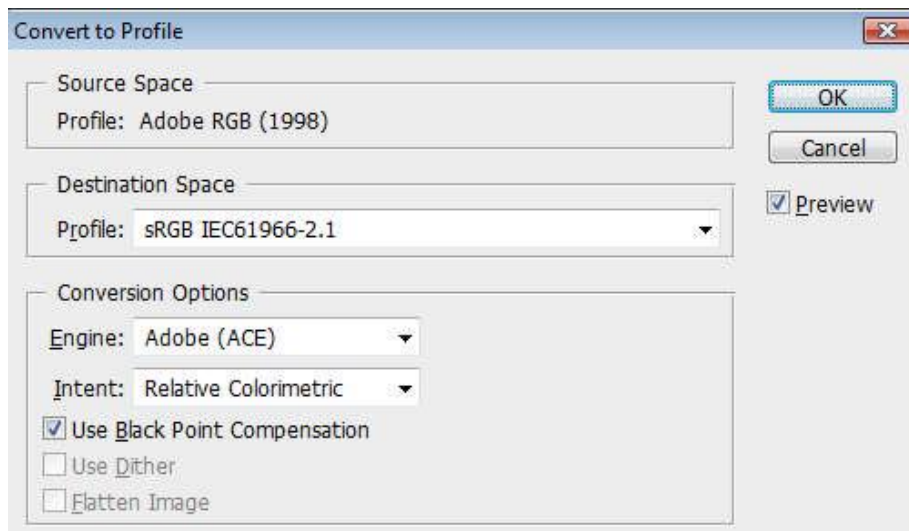
In general, you will want to work in the widest colour space during your image editing process.

You can use a wide space such as Adobe RGB (1998). This will also provide the best quality prints. In order to create digital image competition entries, you should convert to the smaller colour space, sRGB, and save the image into a separate file from your working document.

Use your image editing software to check the colour space of your image. If the colour space of the image is already in sRGB then there is nothing to do. When changing profile always use “convert” and not “assign” as these are two different processes.

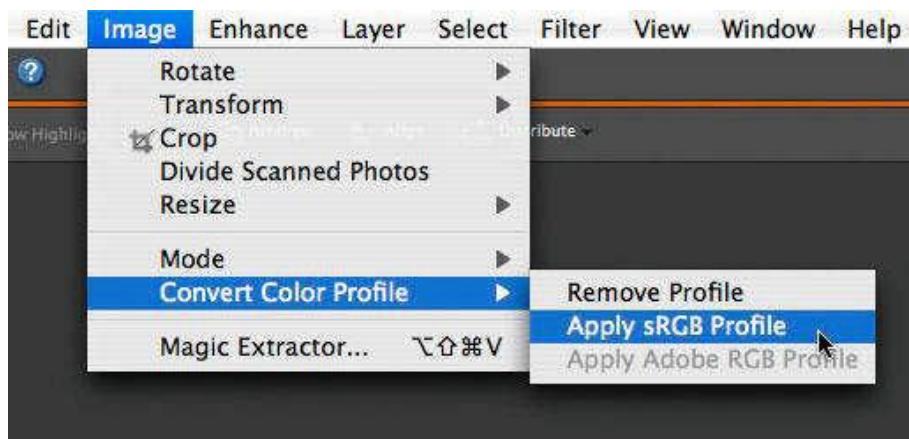
8.2 Photoshop CS2/CS3/CS4

In Photoshop CS2/3/4, use the menu item Edit/Convert to Profile... to open the dialog shown below. Here the source colour space is displayed [Adobe RGB (1998)]. Select the destination space as sRGB – in this case, the most recent version is available, [sRGB IEC61966-2.1]. The other values can be left at their default settings (although you might like to experiment).



8.3 Photoshop Elements

Use the Image/Convert Color Profile/Apply sRGB Profile



Note that other Image Processing Software, eg Lightroom, will use different methods for these processes. For guidance contact the Competitions Secretary.

9 Resizing Images

9.1 Overview

Although the club laptop can display images of almost any size, images in the native image size of the projector will display images at their best, with no inherent resizing required. Use your image editing software to change your source image into one no bigger than 1024 pixels wide and 768 pixels tall. As always with Photoshop, there are a number of ways to achieve this.

9.2 Photoshop CS2/CS3/CS4 Crop Tool

Using the crop tool, you can set the finishing size of the image, then drag/size the crop tool to the required part of your image. Clicking the “tick” button will resize your image to exactly 1024 x 768, regardless of the rectangle on your image.

You do not need to set the resolution field. This is only useful in printing scenarios and is not used for display on a computer screen, where only the pixel size is useful.

Note that the “re-sampling” method used will be the one you have selected by default in your preferences.

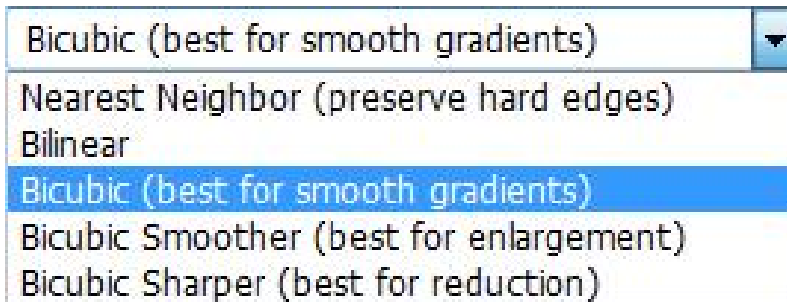
9.3 CS2/CS3/CS4 Image Resize Dialog

Using the menu item Image/Image Size... you can open the following dialog. Ignore the section labelled “Document Size:” which relates to printing images.

For landscape images (those wider than tall), set the width to 1024. This will constrain the height of your image to the correct proportions if you have the “Constrain Proportions” check-box ticked. For portrait images (those taller than wide, set the height to 768, which will constrain the width to its maximum possible size to match your image proportions). Click “OK” to make resize the image. If the height and with differ by a small number of pixels, you might wish to un-tick the “Constrain Proportions” and set a size of 1024 x 768 exactly and allow the image to be stretched to the full display size (but check if the result is acceptable!).

9.4 Resample Type

There is no “correct” value for the re-sampling type. It may be worth experimenting to see which one suits your images best. Just because there is an options proffered for best, it doesn’t necessarily mean that this is the best one for your image.



Northallerton Camera Club

Summary of Image Preparation for PDI Competitions

September 2010

Property	Value	Notes
Image Width	1024 pixels wide (maximum)	Projector native pixel size is 1024 x 768
Image Height	768 pixels high (maximum)	Projector native pixel size is 1024 x 768
Colour Space	sRGB	Images will be projected in the sRGB colour space.
Image Type	JPEG	This is the standard 8-bit JPEG (not to be confused with the rarely used 16 bit JPEG)
Colour bit depth	8 bit	Saving as a standard JPEG will create an 8 bits per colour image by default
File size	Any	1024x768 JPEG will usually be 500kbytes to 1Mbytes in size

Image Title not to exceed 25 characters.

Filename to comprise:

'Christian Name' 'Surname' 'Image Title' (leaving a space between each word)

eg: chris morton belvedere light.jpg

NB do not add the .jpg suffix, as the computer will do this when processing the image file.