

# Measuring Electronic Photos

## Determining Size And Resolution

Legion Magazine has size and resolution guidelines for accepting electronic images in the Snapshots section. In order to help you determine if the image you are planning to upload to our Snapshots Upload Page is large enough, you need to understand how to measure digital images.

Every digital image is measured in pixels. In order to meet our minimum size requirement for width, every image submitted must have a width of **1,350 pixels or more**. This size will give us enough resolution to fit our requirements.








**IMPORTANT NOTE:** you cannot increase the pixel width of an image after the picture has been taken. Doing so will greatly diminish the quality of the image. So if an image is 800 pixels in width, you cannot make it 1,350 pixels. 800 pixels is its maximum size and therefore does not meet our minimum size requirements.

### Setting up your Digital Camera.

If you start with the correct settings on your digital camera, then you never have to worry about meeting our minimum size requirements. Every digital camera has different capabilities and settings. Refer to your camera manual to select the setting that has the minimum image size that we require. Below is a typical image size chart from a digital camera manual. In this case, the Medium setting (M) which is 2,048 x 1,360 pixels exceeds our minimum requirements.

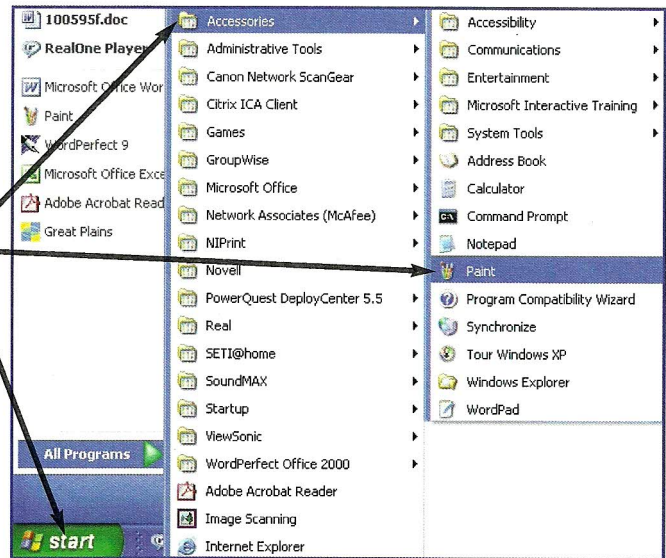
① Set the image quality on your Digital Camera to the appropriate size. In this case, the Medium setting (M) or Large (L) would meet our minimum requirements.

**Image File Size and CF Card Capacity According to Image-Recording Quality**

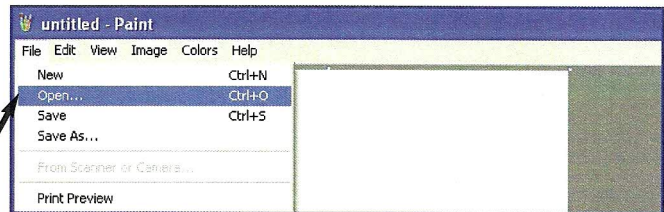
| Image-Recording Quality  | Image Size (Pixels)                                  | Format     | Image File Size (Approx.) | Max. Capacity (Approx.) |
|--|--|------------|---------------------------|-------------------------|
| L               | 3072 x 2048<br>(Approx. 6.3 million)                 | JPEG       | 3.1 MB                    | 38 images               |
| L               |  |            | 1.8 MB                    | 65 images               |
| M               | 2048 x 1360<br>(Approx. 2.8 million)                 |            | 1.8 MB                    | 66 images               |
| M               |  |            | 1.2 MB                    | 101 images              |
| S               | 1536 x 1024<br>(Approx. 1.6 million)                 |            | 1.4 MB                    | 88 images               |
| S               |  |            | 0.9 MB                    | 132 images              |
| <b>RAW</b> + M  | <b>RAW</b> :<br>3072 x 2048<br>(Approx. 6.3 million) | RAW + JPEG | 7 MB                      | 16 images               |

## To determine the exact pixel size of your images please follow these steps.

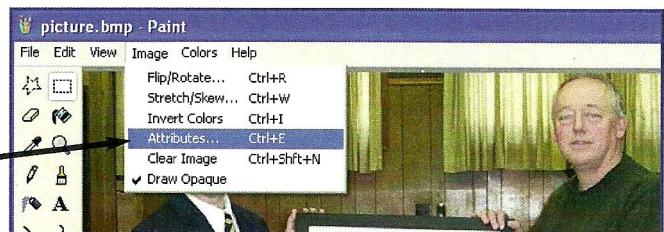
- 1 Click the START key on the bottom left of your computer, select Programs and then select Accessories. In the list will be a program called PAINT. Click on it.



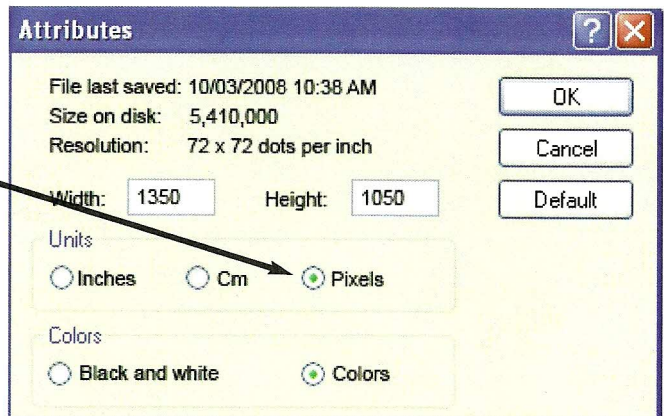
- 2 Under File in the Paint program click on Open. Navigate through your computer files to find the picture you wish to check, and open it.



- 3 Under Image in the Paint program click on Attributes.



- 4 In the Attributes window, go to Units and select Pixels. As long as the Width is 1,350 pixels or greater, the photo will meet the minimum size requirements.

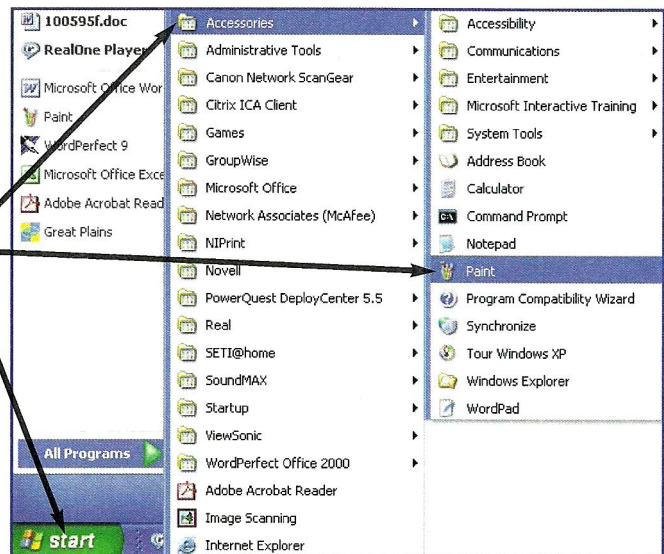


You can also measure digital images in inches. Legion Magazine requires all images to be at least 4.5” in width, with a resolution of 300 dots per inch (dpi).

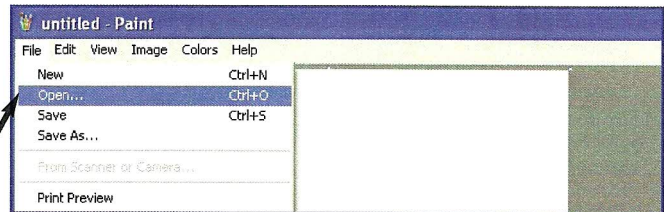
**IMPORTANT NOTE:** you cannot increase the size in inches, or resolution of an image after you take the picture. Doing so will greatly diminish the quality of the image. So if the original image is 3.5” in width, you cannot make it 4.5” and expect it to meet our guidelines. 3.5” is its maximum size. If an image is 4.5” wide, but its resolution is 100 dpi, the same principal applies, you cannot change the resolution to 300 dpi.

**To determine the exact size and resolution or dpi of our images please follow these steps.**

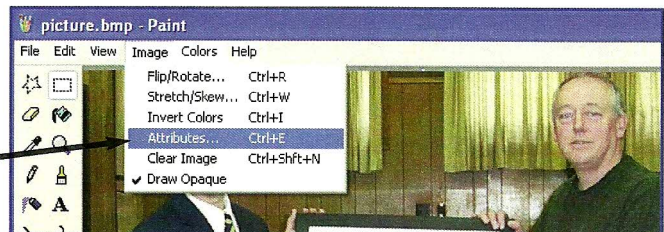
- 1 Click the START key on the bottom left of your computer, select Programs and then select Accessories. In the list will be a program called PAINT. Click on it.



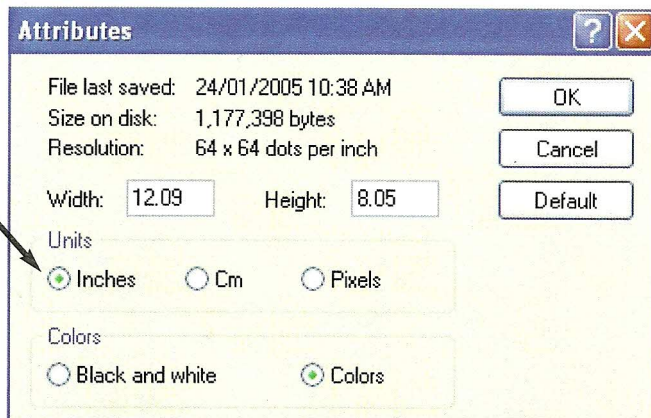
- 2 Under File in the Paint program click on Open. Navigate through your computer files to find the picture you wish to check, and open it.



- 3 Under Image in the Paint program click on Attributes.



- ④ In the Attributes window, go to Units and select Inches.



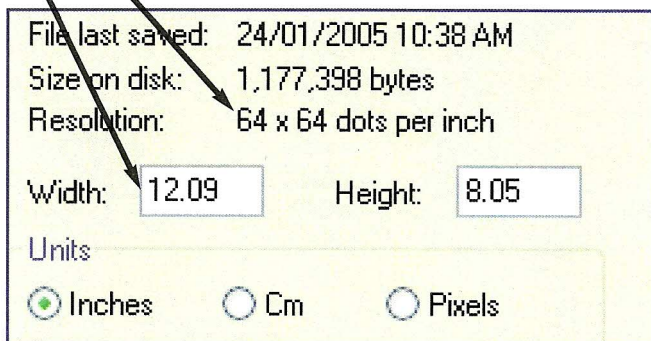
- ⑤ Apply the following formula and you will find out exactly the width of your photo at 300 dpi.

**Resolution ÷ 300 x Width = Final Size**

in the example provided the formula is:

**64 ÷ 300 x 12.09 = 2.58 inches wide**

and 2.58 inches is far too small for us to accept.



Another way to quickly determine the size of a digital image is to by file size. As a rough guideline, the JPEG file size would be a minimum of 200 kilobytes (KB) for Black and White photos and between .5 MB and 1 MB for colour photos.

The resulting TIFF file size would be between 1-2 megabytes (MB) for Black and White photos and between 4-6 MB for colour.

### Electronic File Size Units

1 Kilobyte (KB) = 1,000 bytes  
1 Megabyte (MB) = 1,000 Kilobytes  
1 Gigabyte (GB) = 1,000 Megabytes

Remember, if you experience a problem,  
call Jason Duprau at

**(613) 591-0116 ext. 264**