

5D[™] PortraitStitch: Photos to Portraiture

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Modules: 5D[™] PortraitStitch from the 5D[™] Embroidery Suite Software



Turning photos into embroidery can be a fascinating endeavor. $5D^{\text{TM}}$ PortraitStitch has unique features that transport your treasured photos into a distinctive style of stitches similar to tapestry or free-motion thread painting.

Explore some tools in $5D^{T}$ PortraitStitch and get some tips for transforming photos into stitches.

Adjust Settings in 5D[™] Configure

- 1. Open **5D**[™] **Configure 1**.
- 2. Click the Utilities tab. Click Reset All Modules.
- 3. Click **OK** to the message, '**All modules will be closed and reset to their default settings'.**
- 4. When you see the message, 'Please confirm that all modules except 5D[™] Configure are now closed', ensure no other modules are open in the background. If they are, click on the module(s) in the background, and close after saving any work that might be in progress. Click OK to the 'All modules will be closed' message when you have verified all other modules are closed.
- 5. Click **OK** to the message, '**All modules are now reset to their default settings**'. Resetting the Modules will make all menus appear as they first installed, will reset all browse windows to their default size and folder, and will make the Control panels and toolbars reset to default. No changes will be made in custom settings such as MyThreads, MyMachines, or MyHoops.
- 6. Click **OK** to close **5D**[™] **Configure**.



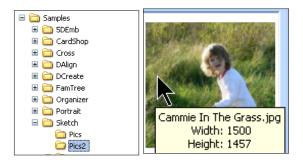
Open the 5D[™] Embroidery Software

- 7. Open **5D**[™] Embroidery ⁵⁰.
- 8. A message will appear asking you to **Please Wait, Configuring the software for the current user**, because you reset all the modules to their default installation configuration.
- 9. Click **5D[™] PortraitStitch** in the **QuickLink Toolbar**.
- 10. Click View Picture in Load Picture Wizard Choose Picture.



Select and Prepare a Photo

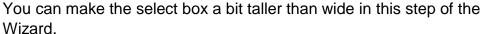
11. Browse to Documents\5DEmbroidery\
Samples\Sketch\Pics2. Click OK to see the Thumbnails. Select the last picture in the top row, Cammie In The Grass. The Picture Viewer will close automatically, and the image will load into the Preview window in the Wizard. Note: If the Sample files are not visible, cancel the Wizard, and open 5D Sketch from the QuickLink Toolbar to activate its Sample folder.



- 12. Click Next.
- 13. No Rotation is needed in **Load Picture Wizard Rotate Picture**.
- 14. Click Next.

Crop the Background for more Detail

15. In **Load Picture Wizard – Crop Picture**, click and drag the blue corner handles to resize the box and crop away most of the background, leaving Cammie's head and shoulders with a bit of background, as shown.





The box will automatically move inward toward its center as you size it, but you can put the cursor in the center and then click and drag to place it in position around Cammie's head as shown.

- Use the Zoom In description to In the Zoom toolbar, as you may more easily define the selection when zoomed closely.
- 16. When the Crop Box is sized and moved into position, click Next.



Use or Remove the Background

- 17. In **Load Picture Wizard Remove Background**, tools for erasing the background area are useful if you don't want to turn the background into stitches. For some portraits, you'll want to erase the background area to lend more emphasis to the face. For Cammie, we'll **leave the background** in place.
- 18. Click Next.

Picture Options

- 19. In **Load Picture Wizard Picture Options**, Autolevel is automatically selected. Autolevel improves brightness and contrast in most photos, and can be used to bring out the color in underexposed pictures. In some pictures, however, Autolevel lessens the quality and may be better if unchecked.
- 20. Leave the Check in Autolevel.
- 21. Select Next.

Choose Embroidery Type and Size

- 22. In Stitch Wizard Choose Embroidery Type, select Create Color Portrait Embroidery.
- 23. Click Next.
- 24. In **Stitch Wizard Design Size**, select **Custom** in **Orientation**. Custom will allow you to specify the finished size of the portrait.
- 25. In Enter Design Size, leave a Check in Proportional.
- 26. Set **the larger dimension**, **Height or Width**, to **149mm**, to create an embroidery which will fit a 6" (150mm) square hoop. The alternate dimension will automatically calculate to be proportional.
- 27. Click Next.
- 28. In **Stitch Wizard Fit to Design Size**, you have another opportunity to crop the image, but the crop will change proportionally in height and width. Click **Next**.

Adjust Colors and Select a Focal Area

- 29. In **Stitch Wizard Reduce Colors**, the **Source Picture** on the left is the **original photo**. The Reduced Colors Preview on the right shows how the embroidery will appear when stitched, and is the most accurate representation you'll see in the
 - Wizard, as the 3D Preview at the end of the Wizard has many jump stitches and looks more patchy than it will actually stitch.
- 30. In Focal Area, check the box by Define a Focal Area. Select Low.
- 31. Click and drag the Focal Area selection box smaller by a corner handle. Click and drag the selection box to different areas of the face, and note how the





Color Selection

Number of Colors

Change All To My Threads

Change Thread

17 Reset

My Threads RaRa5-2337 Espresso

My Threads RaRa5-2584 Dress Gree My Threads RaRa5-2422 Ducky Mau

■ My Threads RaRa5-2422 Ducky Mau ■ My Threads RaRa5-2225 Wine ■ My Threads RaRa5-2629 Pro Walnut

My Threads RaRa5-2729 Mineral My Threads RaRa5-2489 Wicker

My Threads RaRa5-2585 Banner Gra
My Threads RaRa5-2572 Grayrod
My Threads RaRa5-2474 Rattan

My Threads RaRa5-2336 Amber Beig My Threads RaRa5-2250 Pistachio

Pick

My Threads RaRa5-2298 Taupe

- Reduced Colors Preview picture updates and changes how the stitches are formed.
- 32. Click **Zoom In** from the Zoom tools in **Stitch Wizard Reduce Colors**, and click and drag to zoom closer on the face. You'll be able to see the stitch areas within the face more accurately when zoomed in.
- 33. When you find a Focal Area where the stitches appear smooth and attractive on the Reduced Colors Preview, click **Next**.

Select the Exact Threads You Will Use

- 34. In **Stitch Wizard Choose Thread Colors**, click the drop-down menu by Change All To, and select your **favorite 40 wt embroidery thread**. Note how the Thread Color Preview changes to reflect the new thread palette. Stitching your embroidery with the exact threads used in the designing process is critical to the success of the stitch-out!
- 35. If you have listed all your personal threads in MyThreads, click the drop-down menu by Change All To, and select MyThreads. You can also select any individual thread in the Color Selection list, and then click Change Thread, or Delete, to customize your color list.
 - Click Reset if you wish to return to the original threads in the Thread Range selected in the Change All To list.
- 36. Check to **select Enhance Detail** to see the effect produced in Thread Color Preview. Enhance Detail is useful for fuzzy or indistinct photos, to help create greater detail in the finished embroidery.
- 37. Click to **uncheck Enhance Detail** as this photo has adequate detail to produce a portrait.
- 38. Click **Next**. You will be prompted to wait while the stitch preview is produced.

View as a 3D Preview

- In Stitch Wizard Frames or Borders, select No Frame or Border. You can easily create a border after the Wizard in complete, if desired. Click Next.
- 40. In the **Stitch Wizard Design Preview**, the 3D Preview shows many jump stitches. However, the areas of the face are blotchy and dark, meaning the settings used for this particular photo didn't produce a quality portrait.
- 41. Click Finish.





Help System has Tips for Photo Adjustments

- 42. Select the **Picture tab** in the upper left of the work area.
- 43. The Cammie in the Grass photo is dark, with too much contrast. Selecting a quality photo is the first step to producing a quality portrait.
- 44. Select **Help**, and then **Help Topics**. Select the **Index tab**.
- 45. In the box below Type in the Keyword to Find, type in **Optimize**. Double click to select **Load Picture Wizard** in **Optimize Photos** from the list below, and references for preparing and optimizing images will appear at right.
- 46. Double click **General Considerations**. Here, you'll find general information about the type of photos that produce the best portraits.
- 47. Click the **Back icon** in **PortraitStitch Help**. Double click on other topics for more information. All topics may be printed.
- 48. Click to **close** [™] the Help system.



Start a New Portrait, with No Autolevel

- 49. Click New .
- 50. In Load Picture Wizard Choose Picture, click View Picture ...
- 51. Browse to **Documents\5DEmbroidery\Samples\Sketch\Pics2**. Click **OK** to see the Thumbnails. Select the last picture in the top row, Cammie In **The Grass**. The Picture Viewer will close automatically, and the image will load into the Preview window in the Wizard.
- 52. Click Next.
- 53. No Rotation is needed in Load Picture Wizard Rotate Picture.
- 54. Click Next.

Crop the Background for more Detail

- 55. In **Load Picture Wizard Crop Picture**, as before, click and drag the blue corner handles to crop away most of the background, leaving Cammie's head and shoulders with a bit of background, as shown.
- 56. When the Crop Box is sized and moved into position, click Next.



Use or Remove the Background

- 57. In Load Picture Wizard Remove Background, leave the background in place.
- 58. Click Next.



Picture Options

- 59. In **Load Picture Wizard Picture Options**, Autolevel is automatically selected. Since Autolevel, which automatically adjusts tone and contrast, produced a blotchy dark skin tone in our first portrait, **uncheck Autolevel**.
- 60. Click Next.
- 61. In Stitch Wizard Choose Embroidery Type, select Load Picture for Editing.
- 62. Select Finish. You will end in the Picture tab, ready to edit the image.

Change the Photo Quality with Image Effects

- 63. Click the drop-down menu on **Image Effects**. Here, you can globally adjust brightness, contrast or gamma, color hues, increase or decrease the 'crispness' of the photo, or change the image to black and white with Monochrome.
- 64. Select Luminosity.
- 65. Click Preview.
- 66. Click to uncheck Autolevel, AutoContrast and Negative.
- 67. In the **Gamma settings**, click and drag the slider left until the setting (previewed in the small box at upper right in Gamma) is **3.**

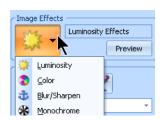
Notice how much brighter the picture becomes, and how the Contrast has evened out for better skin tones.

Many times, photos convert into better PortraitStitch if we adjust to the point of 'washing out' many of the contrast details.

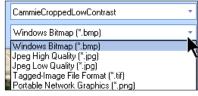
However, for most photographs, you may need to experiment by changing the original photo one setting at a time, resaving as a new file, and running the edited image through the Wizard.

- 68. Click **OK** to **Luminosity Effects**.
- 69. Click **Save As** . Browse to the folder of your choice. In the Picture tab, Save As will save in a picture file format.
- 70. Name the file CammieCroppedGamma3.
- 71. Select **your choice** of file type in **Save As type**.

 Saving the prepared image will give you a head-start if you want to create another portrait from the same image, using a different style of stitches.
- 72. Click Save.





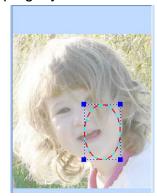




Create a New Portrait

- 73. Select Color Portrait Embroidery from the menu at left.
- 74. In Stitch Wizard Design Size, set Orientation to Custom.
- 75. In Enter Design Size, set the wider dimension, either Height or Width, at 149mm. Leave a check by Proportional.
- 76. Click Next.
- 77. In Stitch Wizard Fit to Design Size, you may fine tune the cropping if you wish.
- 78. Click Next.
- 79. In Stitch Wizard Reduce Colors, select Define a Focal Area, with the setting at Low, and then try placing it in different positions around the face until the areas representing skin tones look balanced.

Note: To achieve a nice quality stitch-out with $5D^{\text{TM}}$ PortraitStitch, be prepared to experiment with settings, reshape and move the select area for Focal Area, and 'play' with the Wizard's options. The time spent will be worth the final result!



- 80. Click Next.
- 81. In **Stitch Wizard Choose Thread Colors**, click the drop-down menu in Change All To, and select your **preferred thread**, or use **MyThreads** if applicable.

 Note this Reduce Colors Preview has less than 20 colors. More color changes aren't necessarily better in 5D[™] PortraitStitch!
- 82. Select Next.
- 83. In Stitch Wizard Frames or Borders, select No Frame or Border.
- 84. Click **Next**. Allow the Wizard to produce the 3D **Design Preview**
- 85. Click Finish.
- 86. While in the **Stitch tab** at upper left, click **Save Embroidery 1.** Browse to the folder of your choice. Type in **Cammie** in the **File name**, and then click **Save**.

One Final Portrait

- 87. Select the **Picture tab** at upper left.
- 88. Choose **Sepia Portrait Embroidery**
 - When you cannot produce a nice portrait in color due to the mix of tones or the complexity of the image, you may be surprised at the difference when you use the Sepia Portrait Embroidery Wizard!
- 89. Select Custom in Orientation, and then set Width at 149mm in Set Design Size.
- 90. Click Next.
- 91. In Stitch Wizard Fit to Design Size, click Next.
- 92. In Stitch Wizard Choose Thread Colors, choose Enhance Detail.
- 93. Click Next.





- 94. In Stitch Wizard Frames and Borders, select No Frame or Border.
- 95. Click Next.
- 96. In **Stitch Wizard Design Preview**, the embroidery produced is a delightful vintage sepia tone!
- 97. Click Finish.
- 98. Select **Save Embroidery \mathbb{k}**. Browse to the folder of your choice.
- 99. Name the file **CammieSepia** in the format of your choice.
- 100. Click Save.



Other Tips and Hints

- Studio photos generally are easiest to coax into PortraitStitch, as they have low contrast and few shadows.
- When choosing a photo, determine the level of detail you wish to express in the
 finished portrait. The original 'Cammie In The Grass' photo was a full-body image
 with lots of background detail, and a facial portrait became more challenging to
 capture when cropping so much of the original photo away. More adjustment was
 required to obtain good skin tones, and some detail has to be sacrificed to produce a
 nice stitch-out.
- Choose your fabric and stabilizer carefully. PortraitStitch is generally dense, though
 you can adjust the density to produce a lighter design in Stitch Wizard Choose
 Thread Colors, before Finishing and saving your embroidery.
- Select firm woven fabrics for more dense portraits.
- Back with a firm stabilizer. Consider INSPIRA® Light and Tacky Tear-Away stabilizer, as it has a light sticky that helps prevent fabric slippage and bubbling during stitch-out.
- Open the 5D[™] PortraitStitch User's Guide and complete the tutorials to learn more about some of the specialty effects, such as Color Tile Embroidery.
- Don't forget to visit www.5DLearningCenter.com to learn more from the tutorials there, as well.