



Using Wizards and Advanced Tools : Using the Autodigitizer Wizard

## Using the Autodigitizer Wizard

You can create embroidery from vector or bitmap images in a few simple steps using the Autodigitizer Wizard.



The Autodigitizer Wizard incorporates all the functionality of the Image Vectorizer wizard from earlier versions of the software (see Step 4).

The image does not need to have each color outlined. You can use images with shading because, by cleaning the image, the wizard ignores closely related colors. Simply choose an image and follow the instructions that the Wizard gives you.

### Step1: Open the Image file

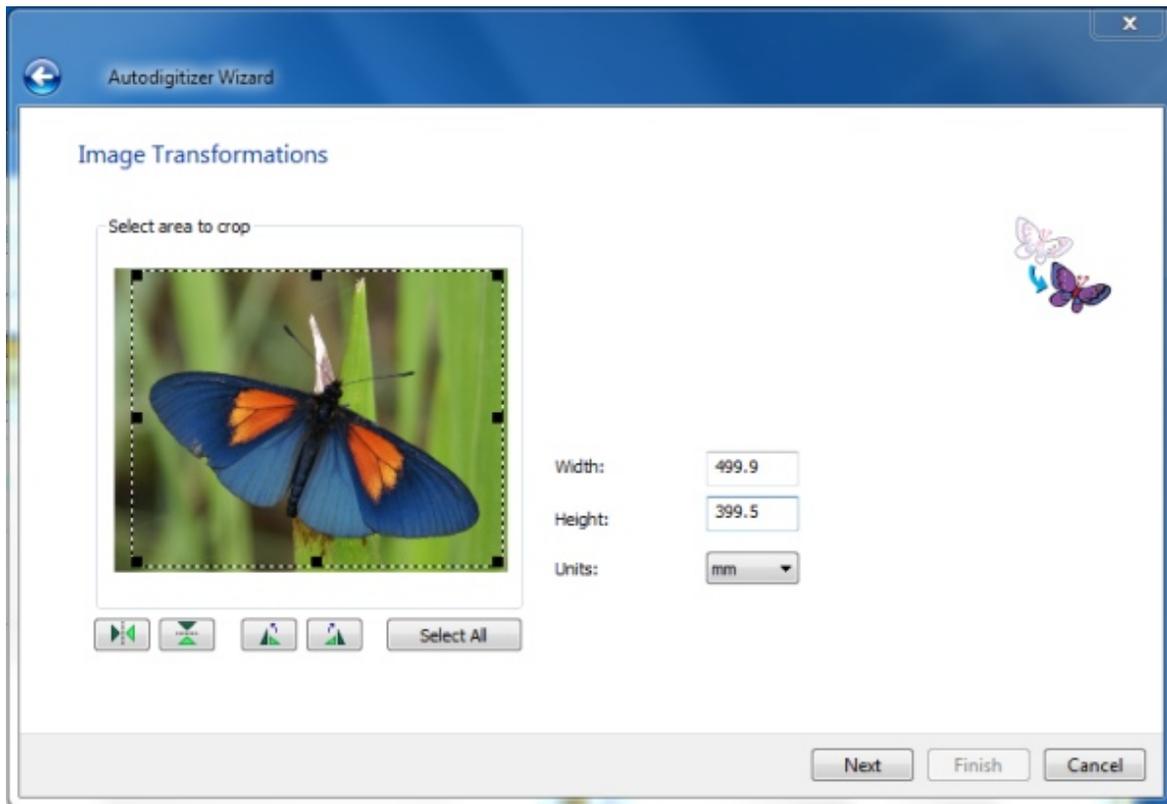
- 1 Do one of the following
  - ♦ Choose File—New.
  - ♦ In the File toolbar, click New.  
*You see the New Document dialog.*
- 2 In the Wizards area, click the Autodigitizer icon.  
*You see the Autodigitizer Wizard window.*



- 3 Click **Select Image** to choose the type of file you want to autodigitize.
- 4 Click Next.  
*You see the Autodigitizer Wizard-Image Transformations window.*

## Step2: Image Transformations

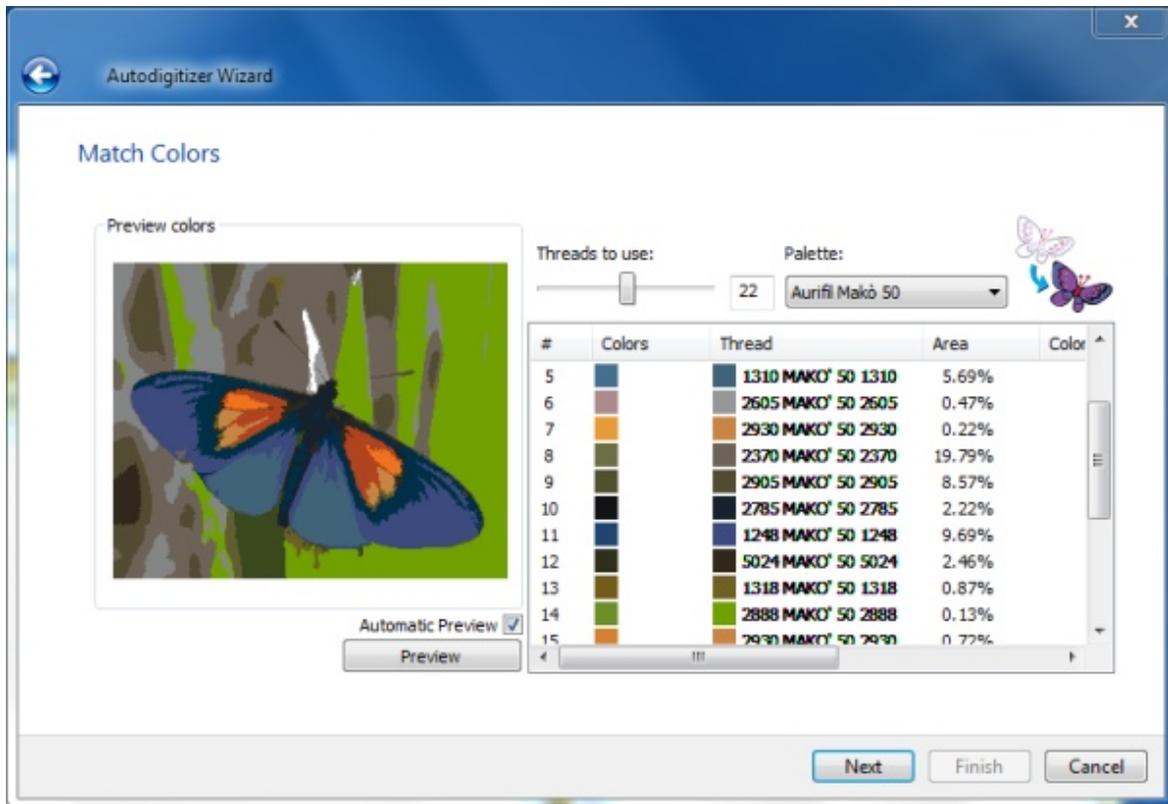
In the Image transformation window, you can (if you wish) crop the image that you just imported, and change its size before digitizing. If the image is one of the bitmap formats (such as \*.jpg or \*.bmp) files, you can crop, rotate, flip and resize the image.



- 1 To crop the image, select only the portion you want to digitize; place your the mouse pointer over the black dots around the image and drag them to resize the selection box.
- 2 To set the image size proportionally, enter a width or height in the corresponding box of the dialog. Select the units system in the box below.
- 3 Click on any of the following Transform buttons do any of the following to the image:
  - ♦ Flip horizontally 
  - ♦ Flip vertically 
  - ♦ Rotate 90° Clockwise 
  - ♦ Rotate 90° Counterclockwise 
- 4 Click Next.  
*You see the Autodigitizer–Match Color window.*

## Step 3: Color Match

In the Match Color dialog, the original colors of the image (RGB) will be shown in the “colors” column. When you choose the thread palette, the wizard will match these RGB colors to the closest color in the chosen palette. The Area column shows the percentage of the area of the entire design that is covered by the color in that particular row.



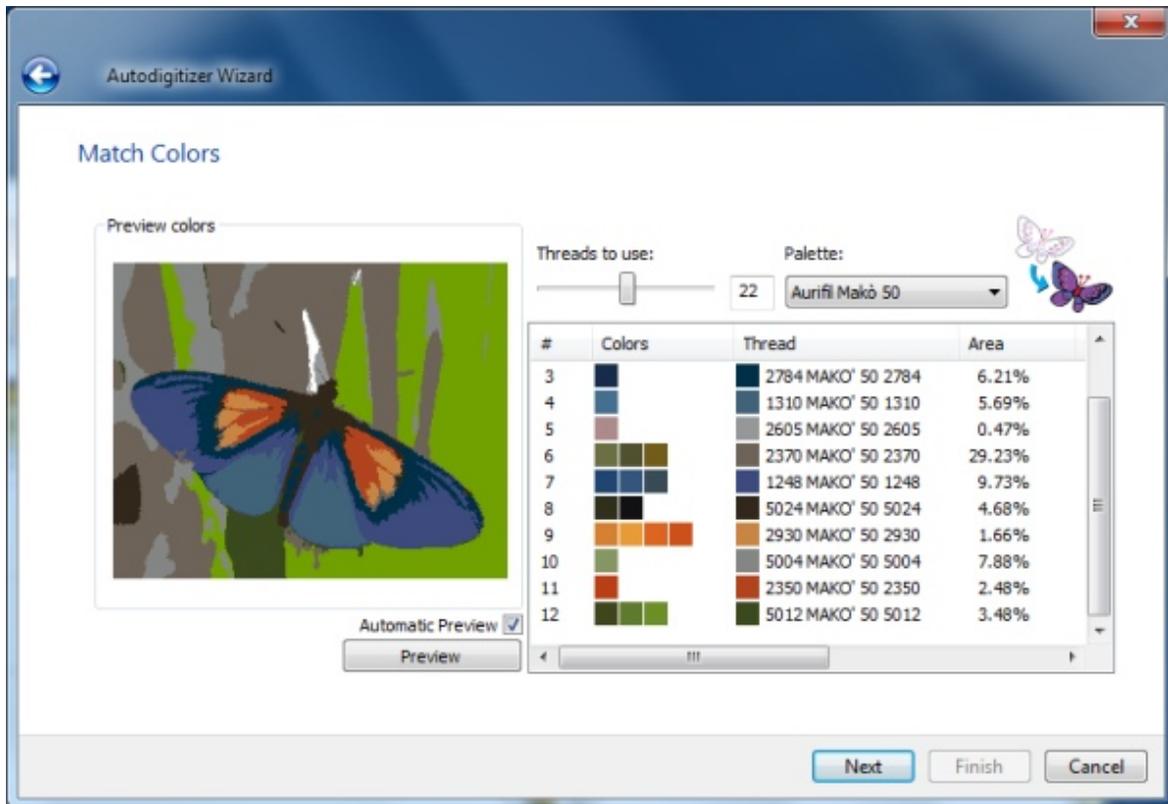
The design as originally digitized, using 22 thread colors.

- 1 Select the thread palette you wish to use for the embroidery from the drop-down list at the top of the dialog.
- 2 Select the number of thread colors that will be used to create the autodigitized image by dragging the "Threads to use" slider; left for fewer colors, and right for more colors.



Check the "Automatic Preview" box to automatically update the image as you change the number of colors; or, uncheck the "Automatic Preview" box, and click the "Preview" button manually to see the change in the image.

- 3 To further reduce the number of colors, click and drag color "swatches" (squares) into another color row. When a color swatch is moved to a new row, the stitches originally assigned to that color (the one that you moved) will be given the new color. In the Area column, you will notice that the percentage is now the sum of the area of the two colors that have been combined.



Same design as above, but with the number of treads reduced to 12 by manual color matching.

- After reducing the number of colors to a suitable number, click Next.  
You see the Automatic Segments window.

#### Step 4: Setting the Automatic Segment widths

The Autodigitizer wizard algorithm will automatically choose different stitch types to apply, depending on the shapes that it encounters in the image to be digitized.

Effectively, what happens is that long, narrow parts of the image will be digitized as either Run, Steil, or Satin Columns (anything larger than a certain defined width will be digitized as a Complex Fill). Which of these three types will be used for the narrow parts of the image will depend on the actual width (in embroidery points) of the color segment to be digitized.

Alternatively, you may choose to generate Artwork, instead of stitches, at this point. (This is the same functionality as used to be in Image Vectorizer Wizard).



To do this, check "Create Artwork Segments", and press the "Finish" button. This will bypass the stitch-generation process, and immediately produce a file consisting entirely of outline Artwork segments (but with the colors preserved).

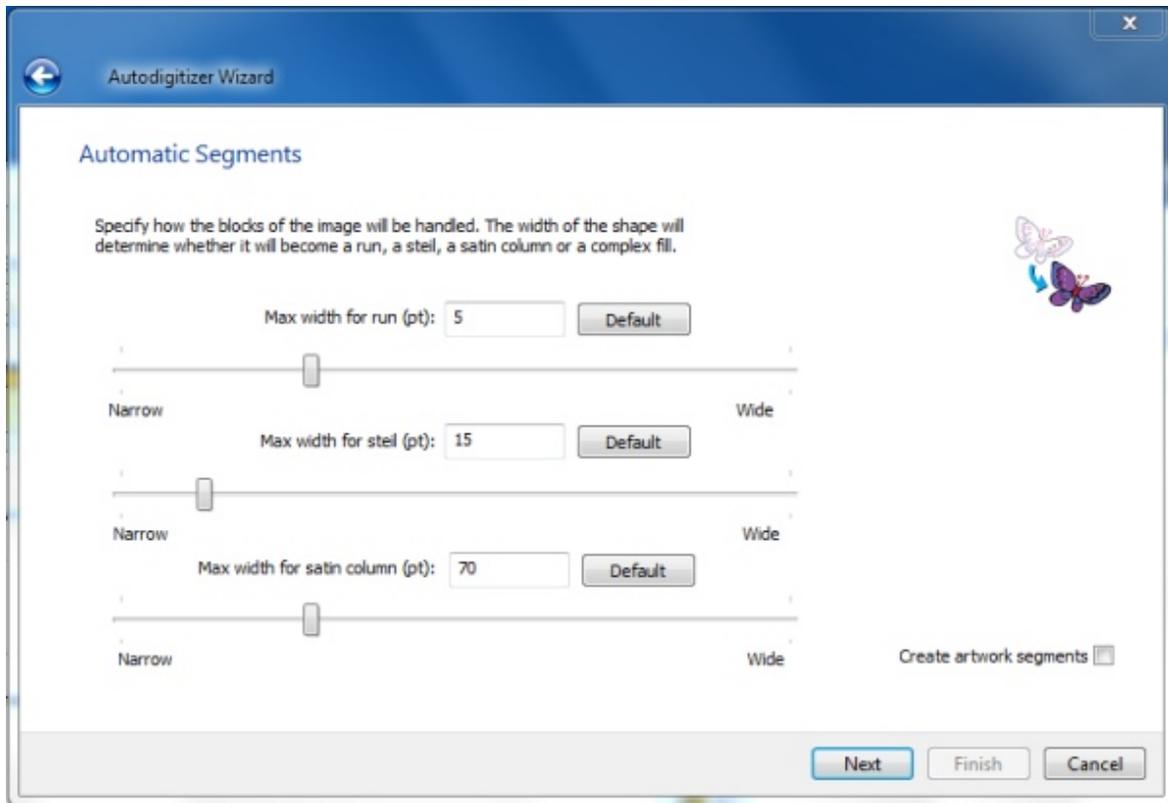
You can then apply whichever stitch types you want to the artwork segment, using the "Convert to..." tool on the ribbon. For more information, see "Applying Stitch Types".

By default, segments will be digitized as follows:

Width (in the image)	Segment type applied
1–5 points	Run Stitch
6–15 points	Steil Stitch
15–70 points	Satin Column
70 points or wider	Complex fill

However, you are able to override these values for each type of stitch, using the controls on the Automatic

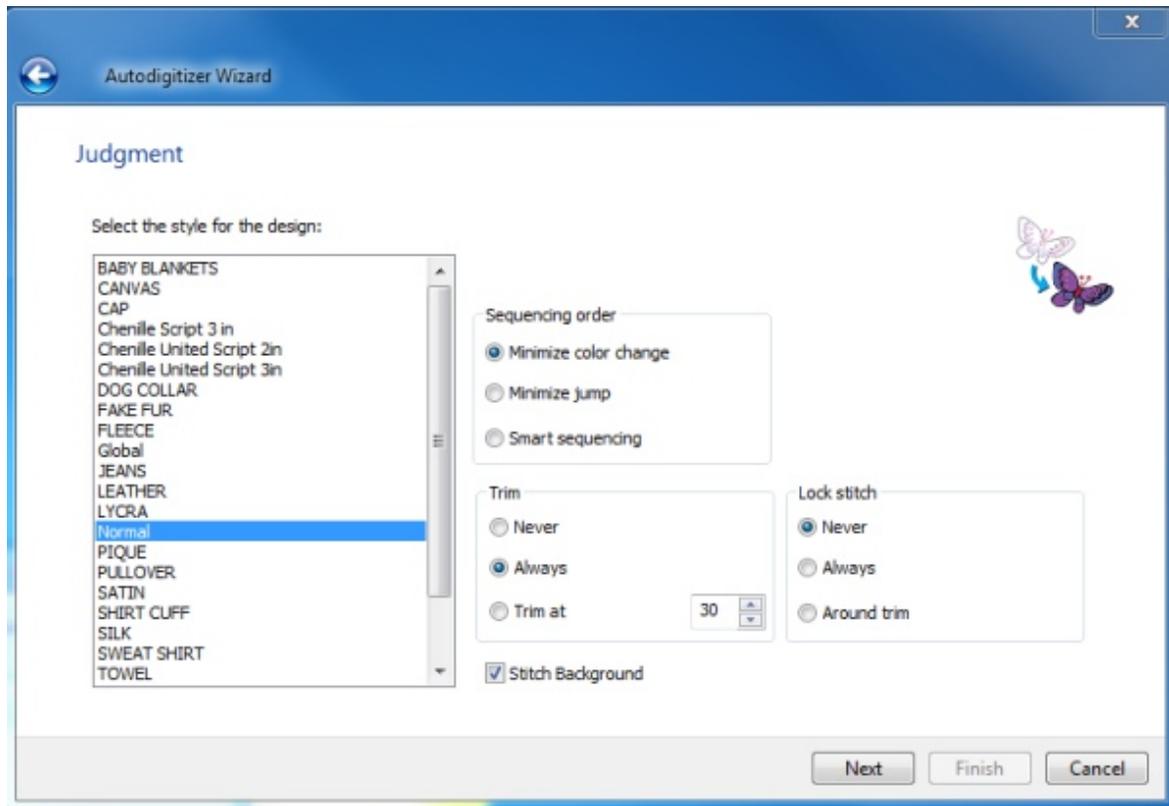
Segments page.



- 1 Drag the sliders for each of the embroidery segment types to determine the maximum width that each stitch type will apply to.  
*The chosen width will be displayed in the small boxes above each slider; to return each to its default value, click the Default button.*
- 2 Click Next.  
*You see the Judgment window.*

### Step 5: Judgement Settings

This window allows you to change the settings that will be applied to the stitches. Also, there is also the option to digitize the background of the image.



- 1 Select the recipe (style) that is appropriate for the fabric you will be sewing onto.
- 2 In the Sequence Order area, select one of the following to adjust the sewing sequence:
  - ♦ Minimize jump.
  - ♦ Minimize color change.
  - ♦ Smart sequencing.



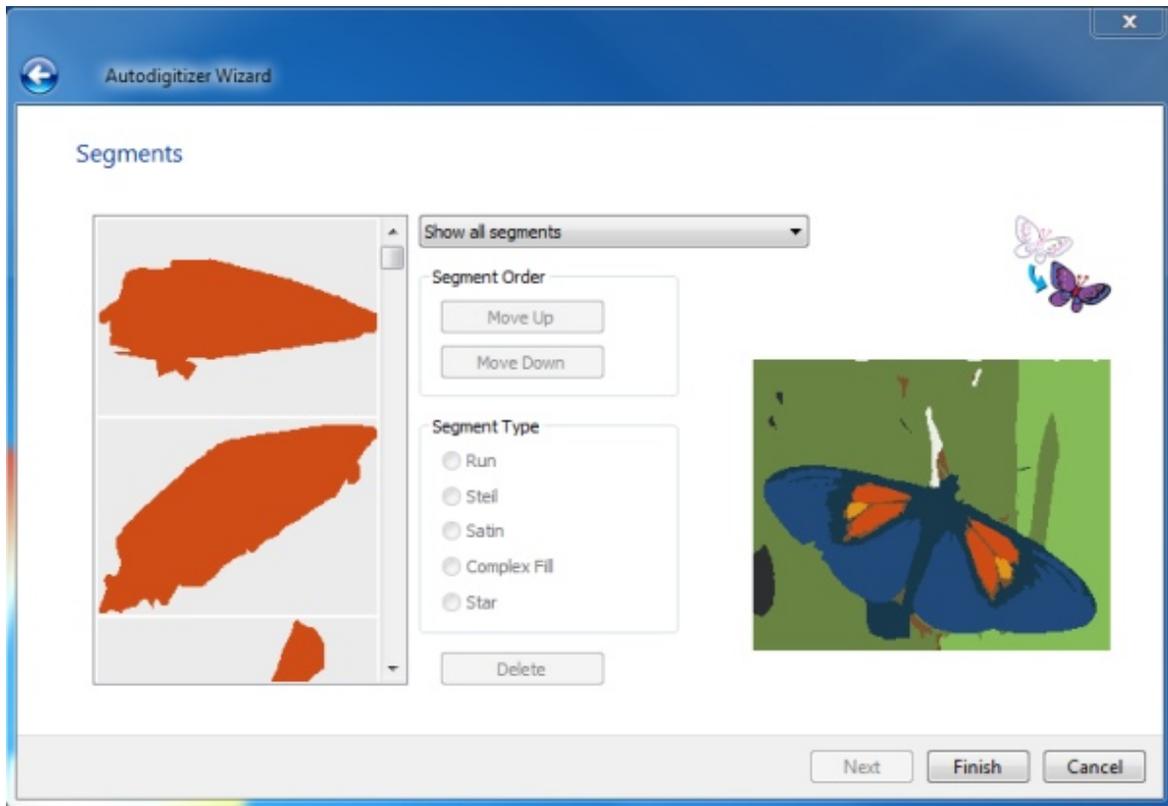
Smart sequencing is a option that preferentially moves narrow border stitches later in the sewing sequence, so that the sew on top of large complex fill areas, rather than the other way around.

- 3 In the trims area, select any of the following trim settings:
  - ♦ Never.
  - ♦ Always.
  - ♦ Trim at. The system will place a trim if the distance between stitches is longer than the distance displayed in the Trim At box.
- 4 In the Lock Stitch area, select any of the following lock stitch settings:
  - ♦ Never.
  - ♦ Always.
  - ♦ Around Trim.
- 5 To create stitching of the background, check the "Stitch Background" checkbox. (Check background is off by default).
- 6 Click Next.  
*You see the Segments Window.*

### Step 6: Working with Segments

In the Segments window, a complete list of the segments in the design will be shown on the left side of the dialog; use the scroll bar to see all of the segments.

In this window, you can change the sewing order of segments, select which type of segment is shown in the list, and convert segments from one embroidery segment type to another.



- 1 To change the sewing order of any individual segment, do the following:
  - ◆ Select the segment
  - ◆ Click on the “Move up” button to move it earlier in the sewing sequence
  - ◆ Click the “Move down” button to put it later in the sewing sequence.  
*You see the segment move accordingly.*
- 2 To show the segments belonging only to a certain type, click the down-arrow next to “Show all segments” and choose one of the following:
  - ◆ Show only run segments.
  - ◆ Show only steil segments.
  - ◆ Show only satin segments.
  - ◆ Show only complex fill segments.
  - ◆ Show only star segments.  
*You see that only the stitch segments of the selected type are shown in the sequence view.*
- 3 To change the stitch type of any segment:
  - ◆ Select the segment.
  - ◆ In the Segment Type area, click the radio button corresponding to the stitch type you want to convert the segment to: Run, Steil, Satin, Complex Fill, or Star.
- 4 To delete a digitized segment:
  - ◆ Select the segment.
  - ◆ Click the Delete button.



Once you have deleted a segment, the only way to get it back is by using the back button to return to the Judgement page, and then hitting Next again to return to the Segments page.

- 5 Click Finish to autodigitize the design and view the design file in the design workspace.



*The Autodigitized Design, complete with stitches.*

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**[Pulse Microsystems Ltd.](#)**

+1 905 821 8300

+1 905 821 7331

[info@pulsemicro.com](mailto:info@pulsemicro.com)