



## Large visual capture setting for Lace cutting

### Region 2 for lace cutting

1 Open the edge management Click on the area to lift 2

Select black or white edges (Remarks; the black and white edges are the outer contours of the graphic. The color should be lace. Generally, the transparent machine floor is generally black. Generally, the grayscale is used for the lifting, and the color difference is formed for the figure and the floor. We generally choose the white outline as the outer contour of the graph)

The screenshot shows the 'Edge Set' software interface with the following settings:

- Edge parameter set(mm):**
  - Min size: 30
  - Max angle: 120
  - Max size: 150
  - Line width: 0
  - Offset: 0
  - Only outConto
  - Close
  - Rect
  - Small hole
  - Extract edge line:
  - Smooth: 2
  - Corner: 0
  - Select edge ID
- Special function:**
  - Black
  - Region1
  - Region2
  - Color edge
  - Black
  - White
  - Auto: Threshold: 164
  - Clear: 3
  - Smooth: 8
  - 外扩: 9

Buttons at the bottom: Save image, Load image, Edge test, Use (highlighted in green), OK.



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2 Step 2 Set the minimum size and maximum size (remarks; the minimum size is the range of the minimum diagonal of the figure, and the maximum size is the range of the largest diagonal of the figure.) Use the ruler to measure the maximum diagonal of the figure as shown below Line and minimum diagonal



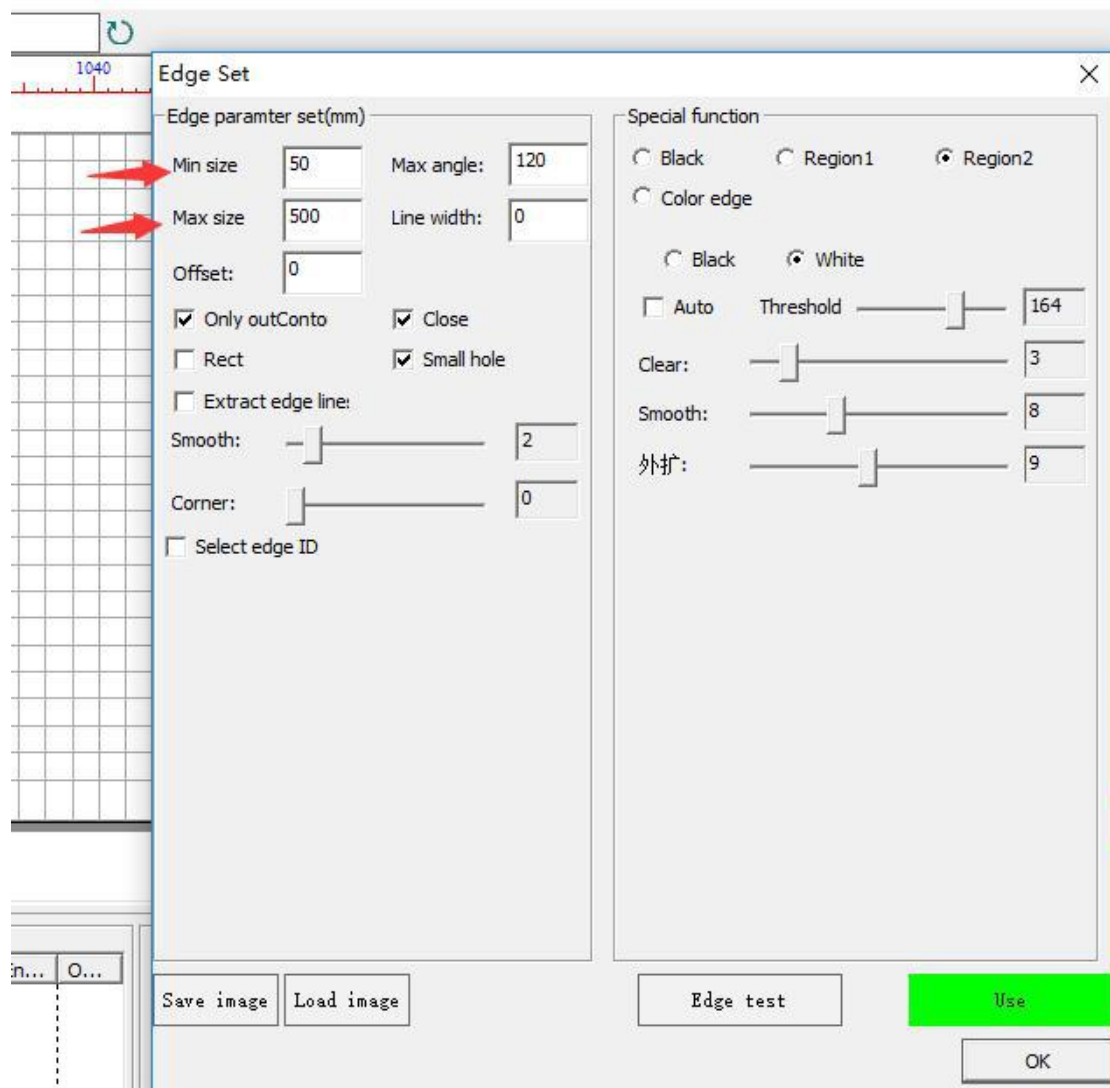


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Fill in the minimum size and maximum size of the measurement; the minimum size of the filled value is slightly smaller than the measured size, the maximum size is slightly larger than the maximum size measured as shown below





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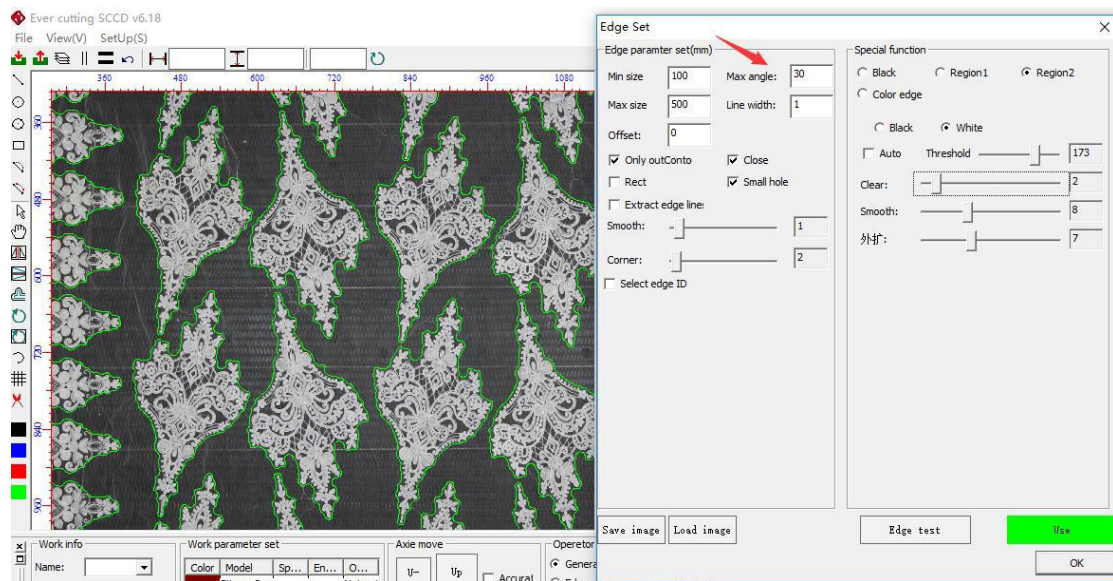
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Step 3 sets the maximum sharp angle

Set the maximum sharp angle (remarks; the maximum sharp angle indicates that the line at the largest corner of the graph has sharp corners instead of arcs)

The angle of the general graph is  $120^\circ$ . If the angle of the sharp point of the graph exceeds  $120^\circ$ , the maximum sharp angle of the parameter should be increased. However, the maximum sharp angle cannot be filled  $180^\circ$ . Otherwise, the sharp corner of the extracted image is an arc as shown below. When the maximum sharp angle shown is  $30^\circ$   $120^\circ$   $180^\circ$

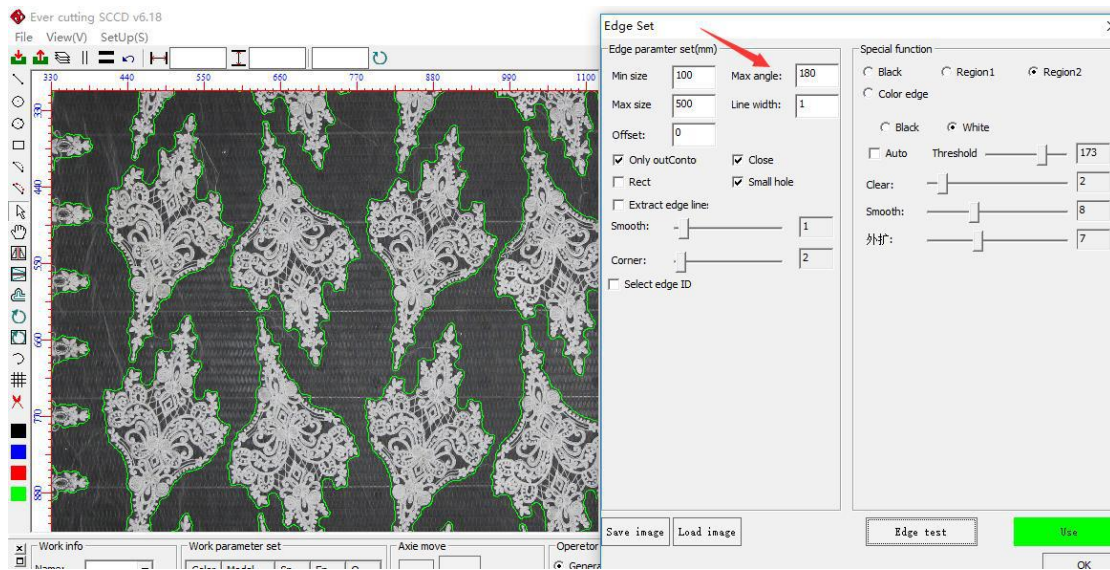
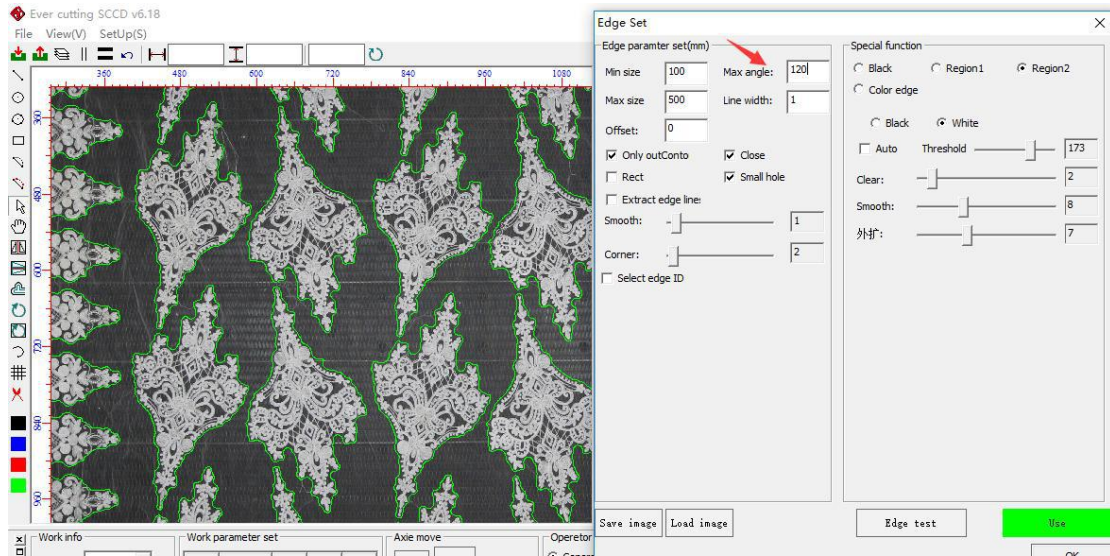




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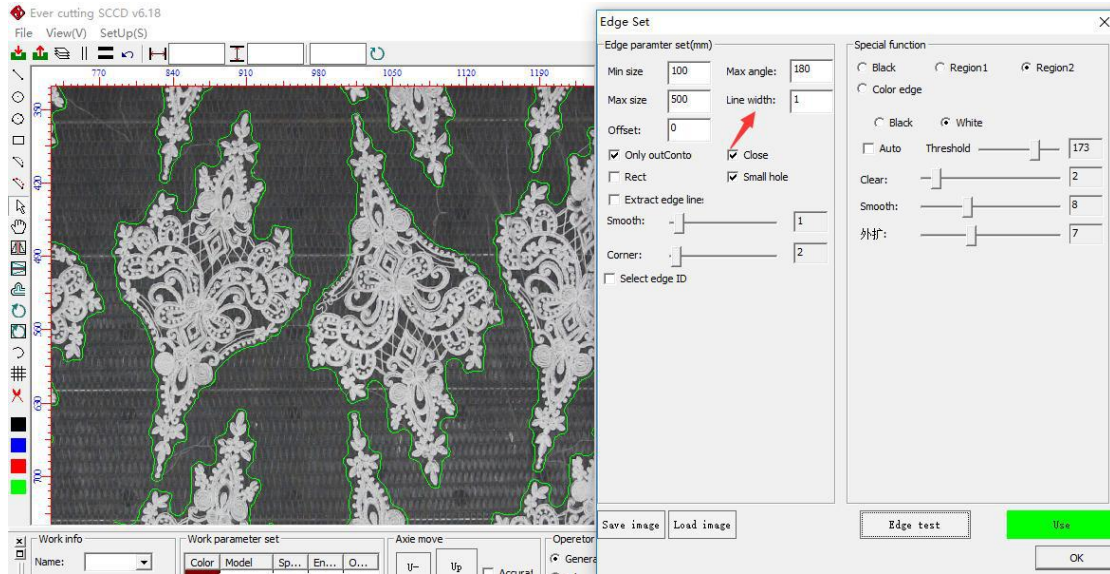
Step 4 Set the line width (remarks; the line width means that when the graphic appears short, but we want to read the graphic, fill in the line width to link the graphic together)



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Step 5 sets the zoom;

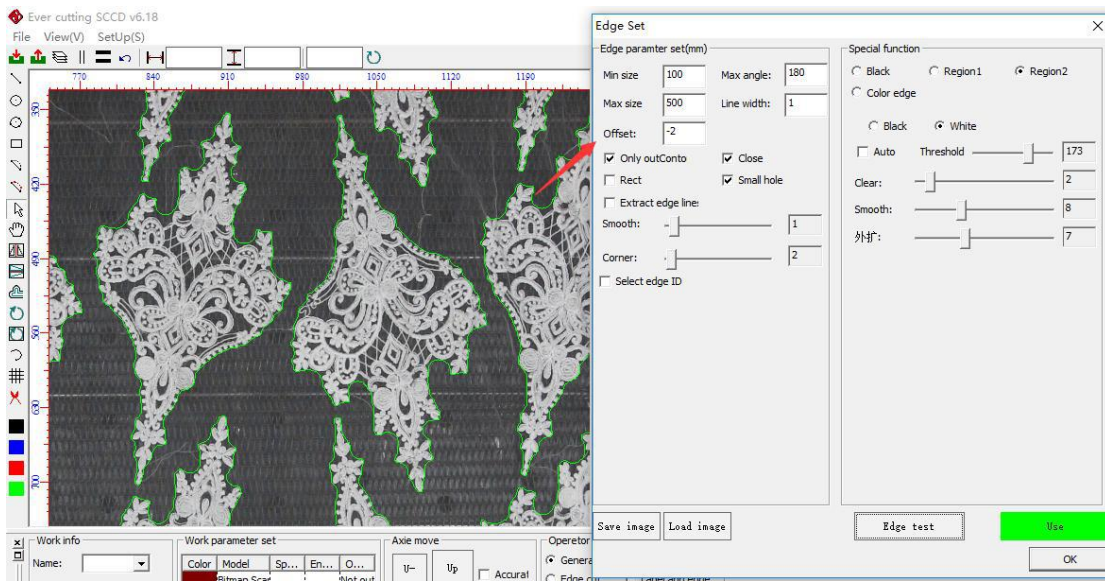
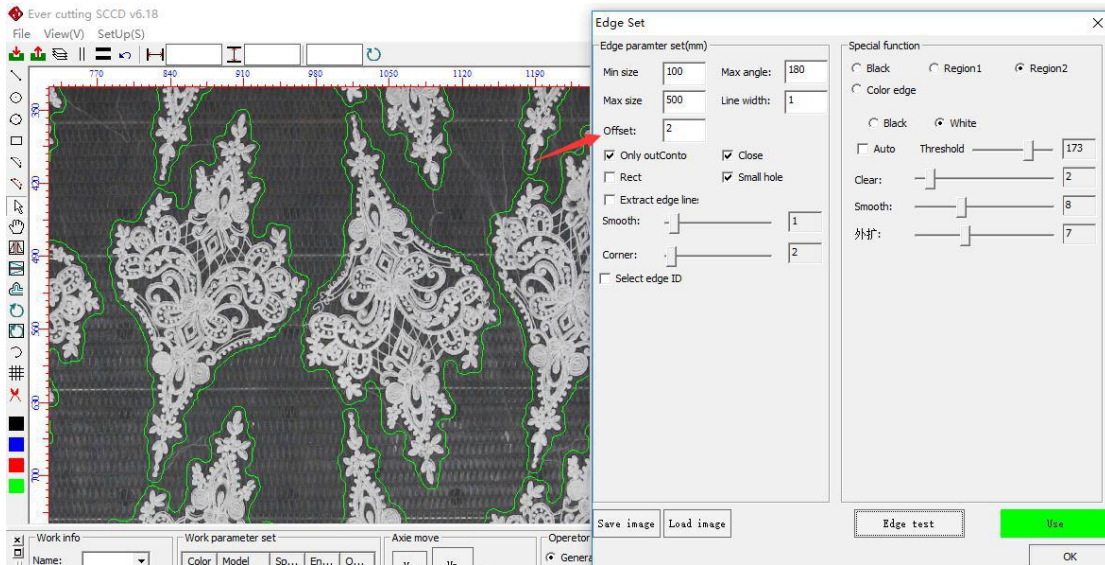
Zoom; adjust the cutting line to expand and contract. When the graphic cutting line is expanded, the value is positive, and the graphic cutting line is reduced to a negative number as shown in the figure below.



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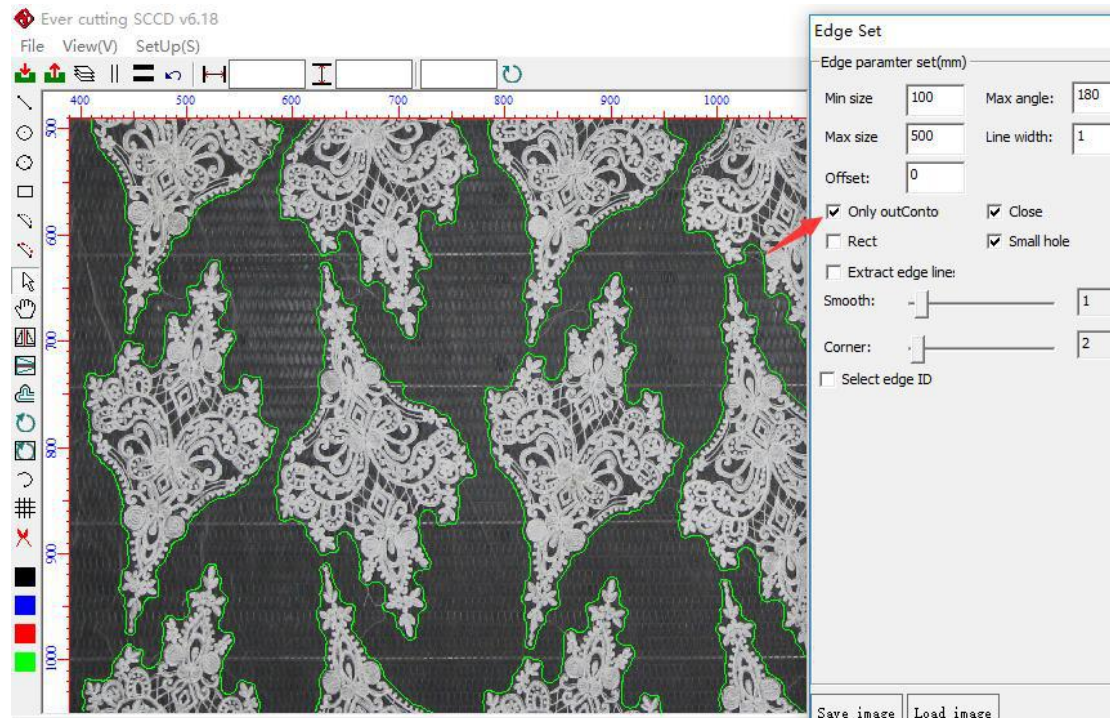
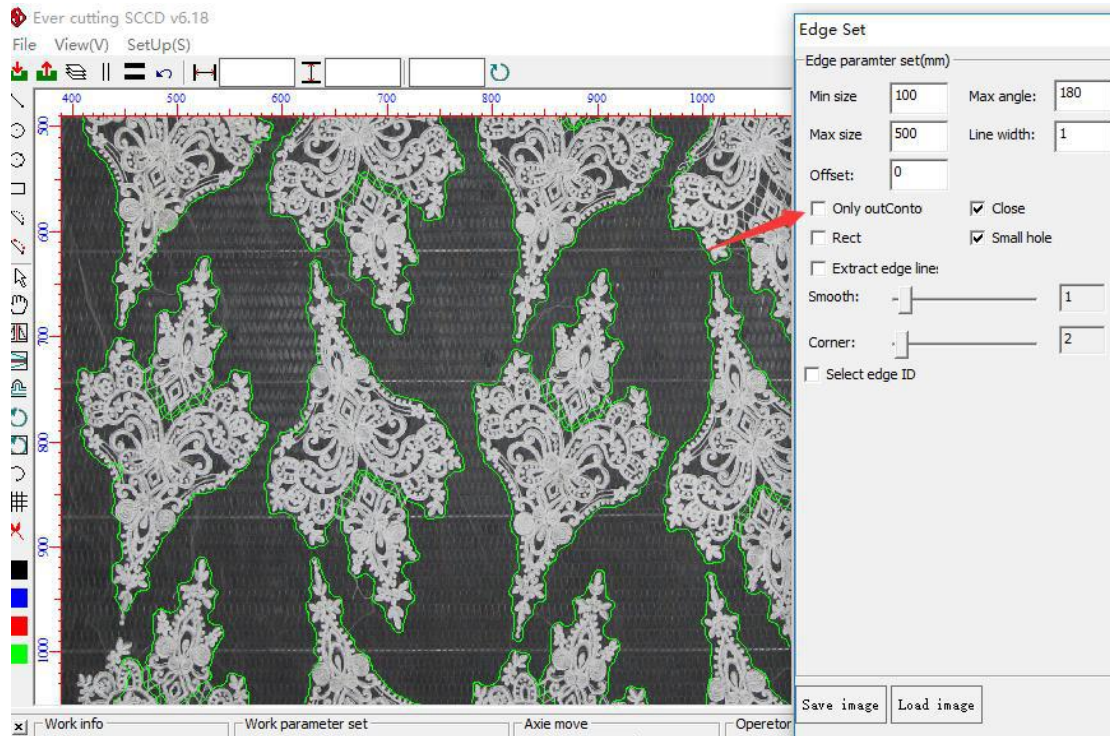
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Step 6; only take the outer contour

Take only the outer contour; only extract the outer border of the graphic will not extract the pattern inside the graphic

If you only take the outer contour, as shown below

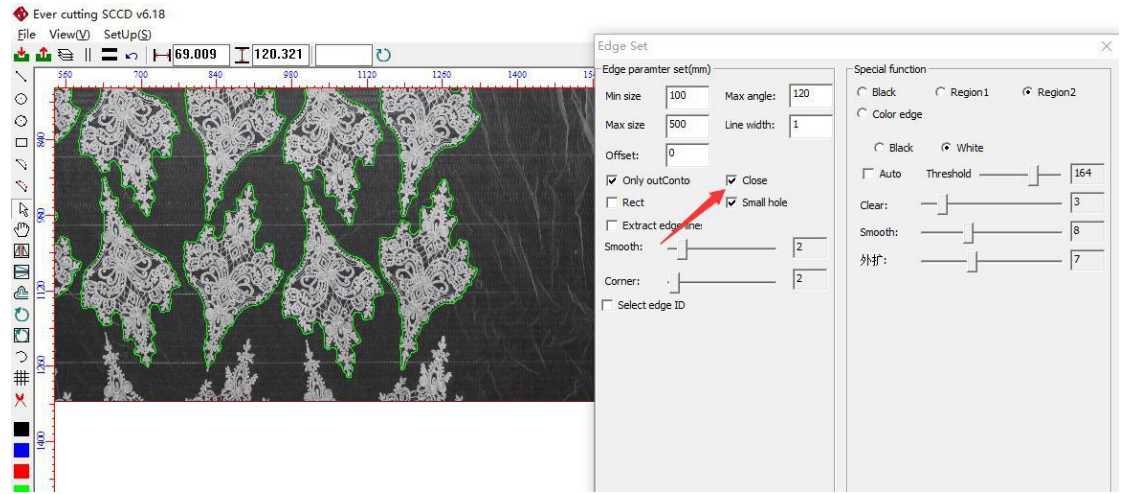
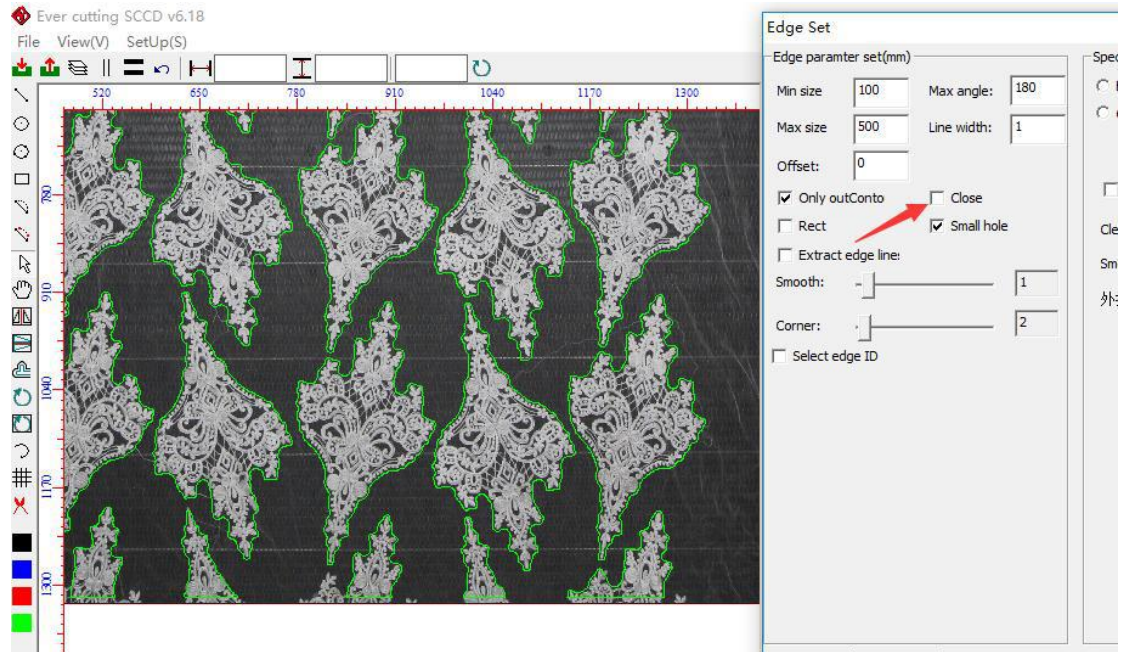






### Step 7 graphic closure

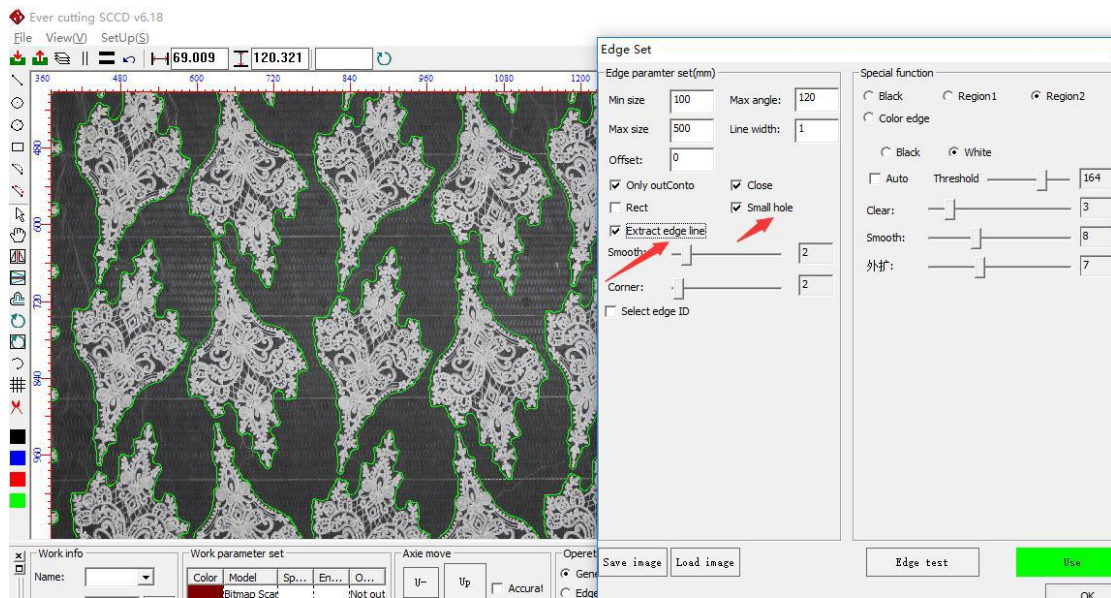
Extract only closed graphics. If the graphics are not closed, they will not be extracted.



### Eighth step

Small graphics extraction; speeds up graphics recognition when cutting small graphics

To the edge of the miscellaneous line; the line on both sides of the fabric and the intersection with the floor to extract a straight line (note; can only be a straight line)



### Step 9

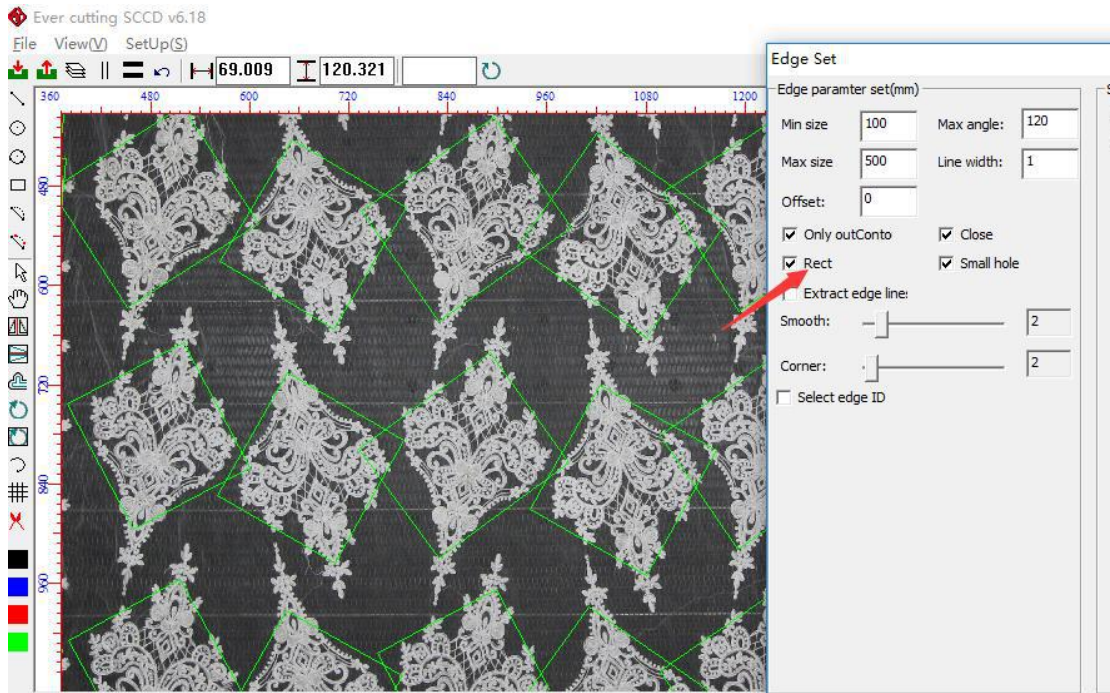
Fit the rectangle; the extraction lines are all rectangular as shown below (this function can only be used for rectangles)



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Step 10 Smooth lines; adjust the smoothness of the lines.

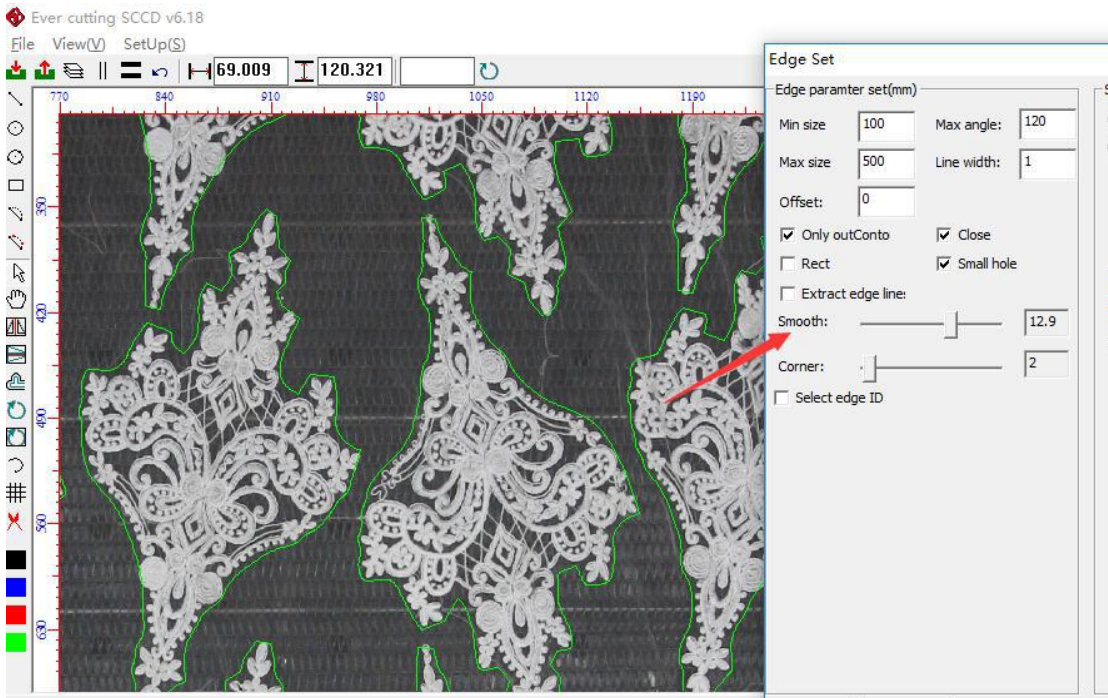
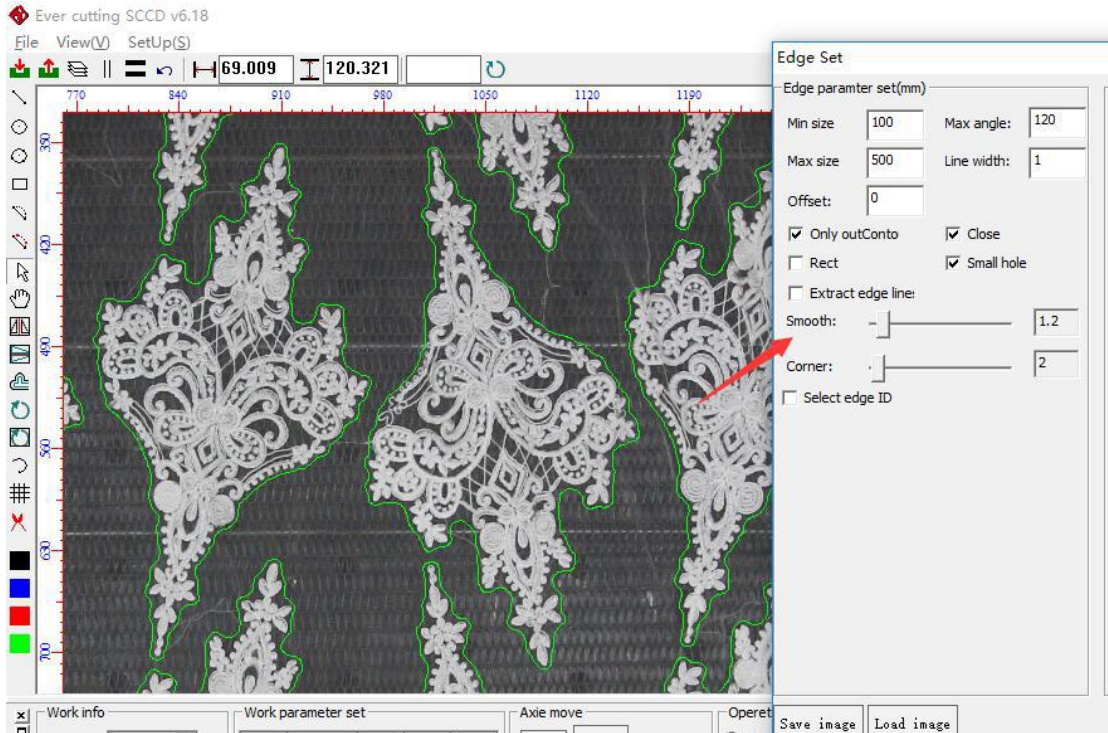
The smoother the line, the smoother the line. The smaller the smoothing coefficient, the larger the line curvature.



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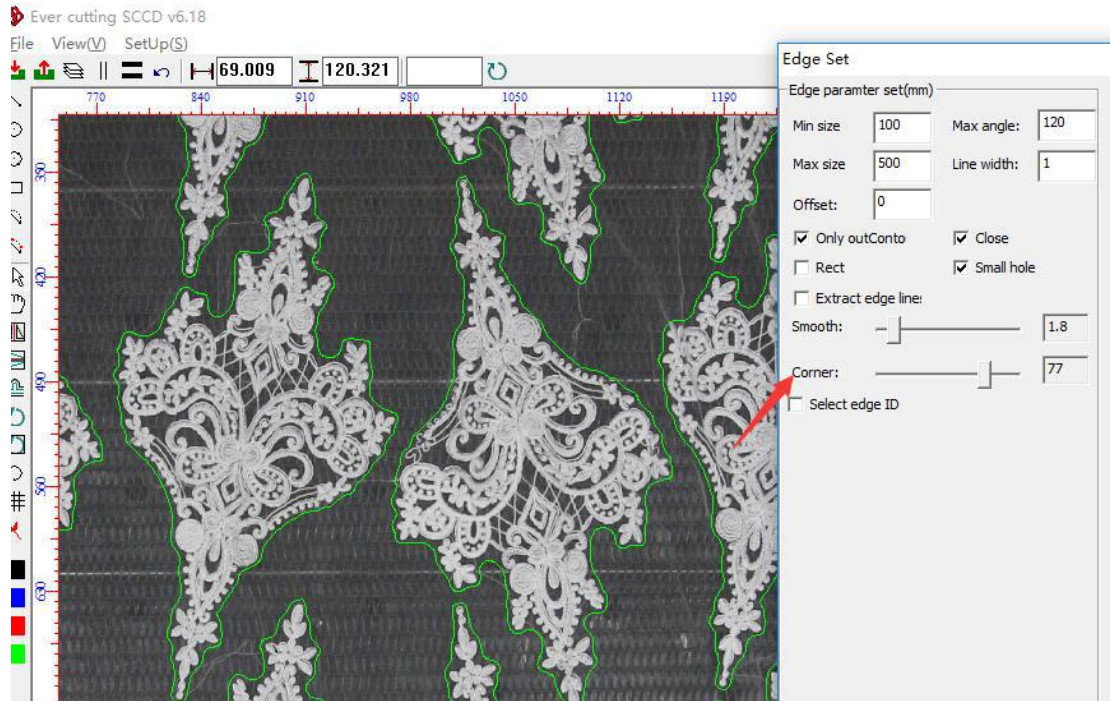
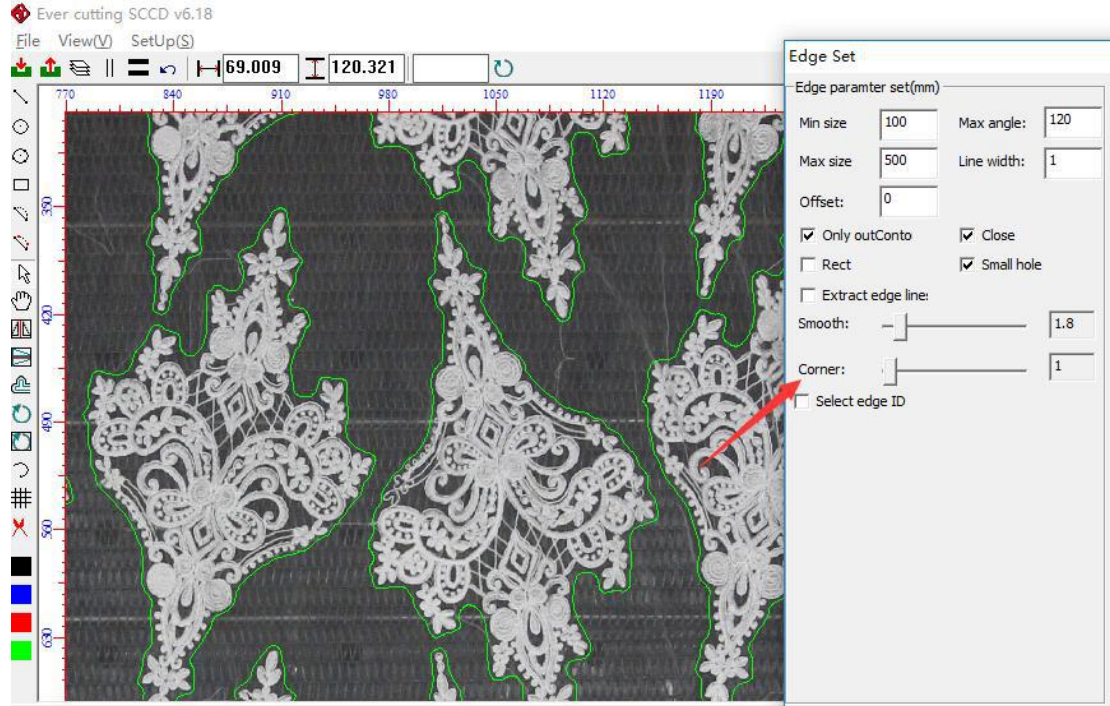
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The eleventh step

Corner adjustment; adjust the corner of the line, when the corner adjustment is larger, the curvature of the line at the corner is larger





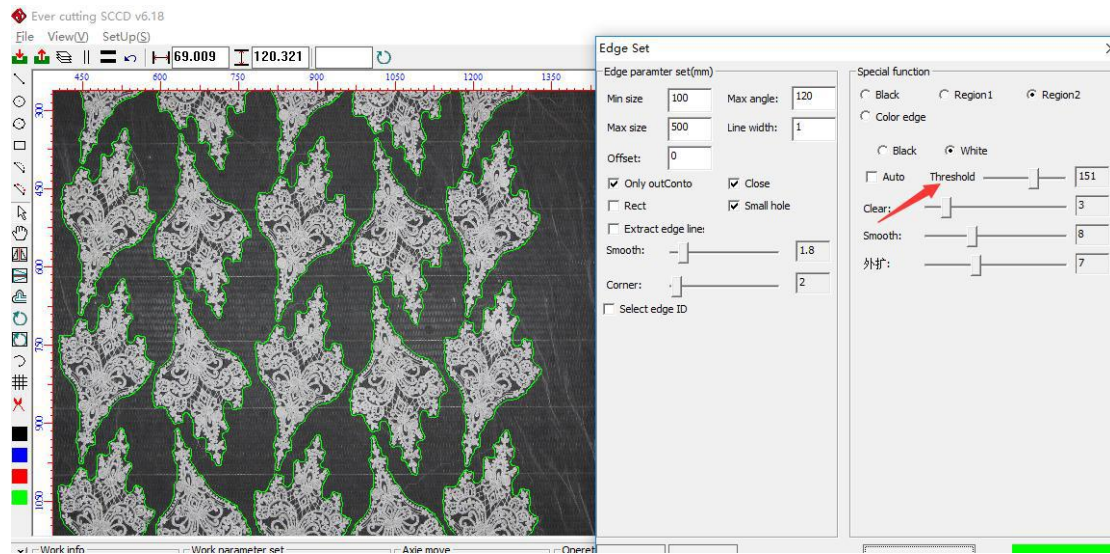
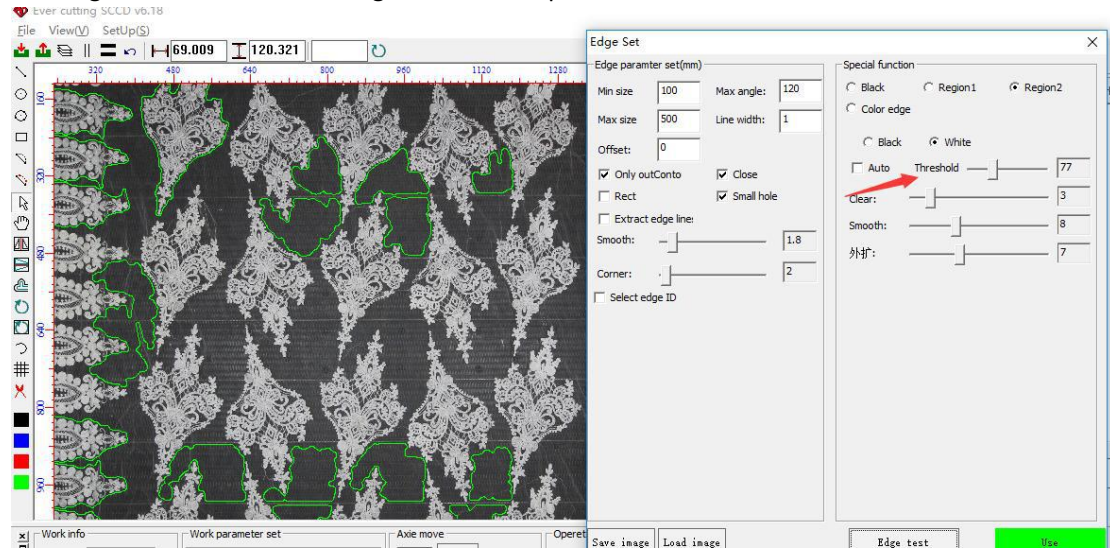
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### Step 12 Threshold

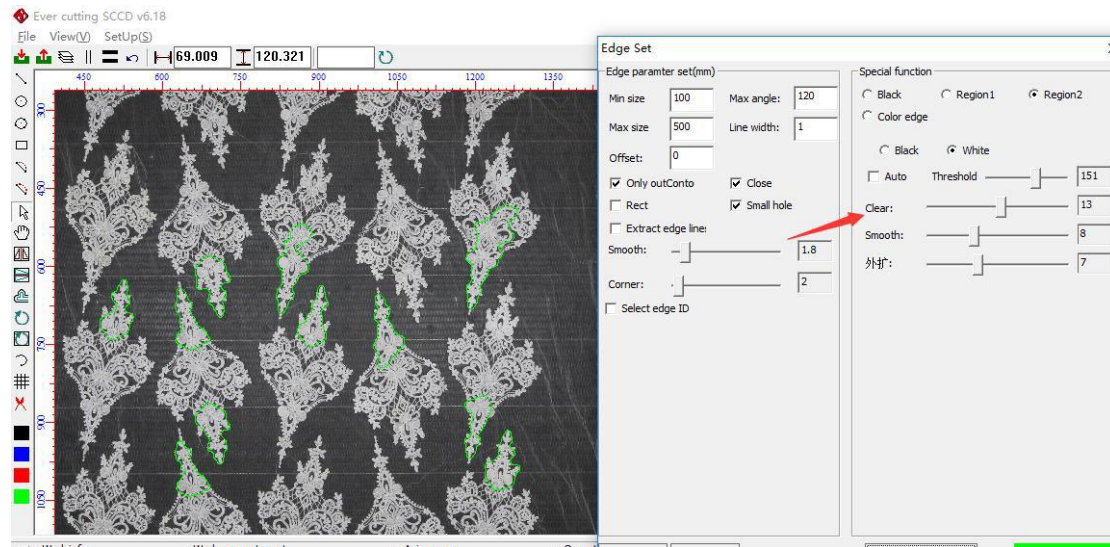
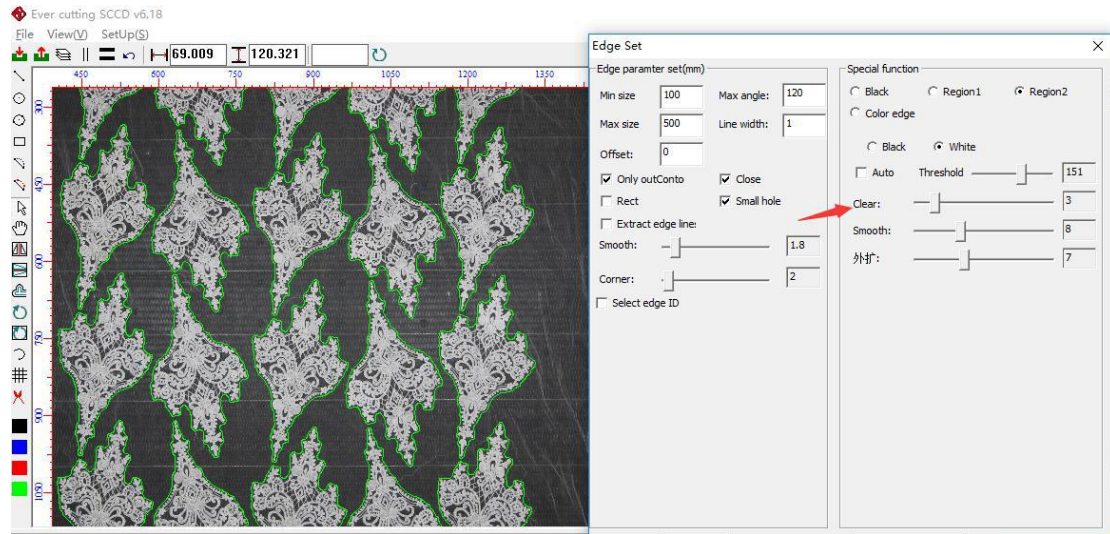
The larger the threshold, the larger the feature point





The thirteenth step

1 remove the miscellaneous line; remove the excess lines in the pattern





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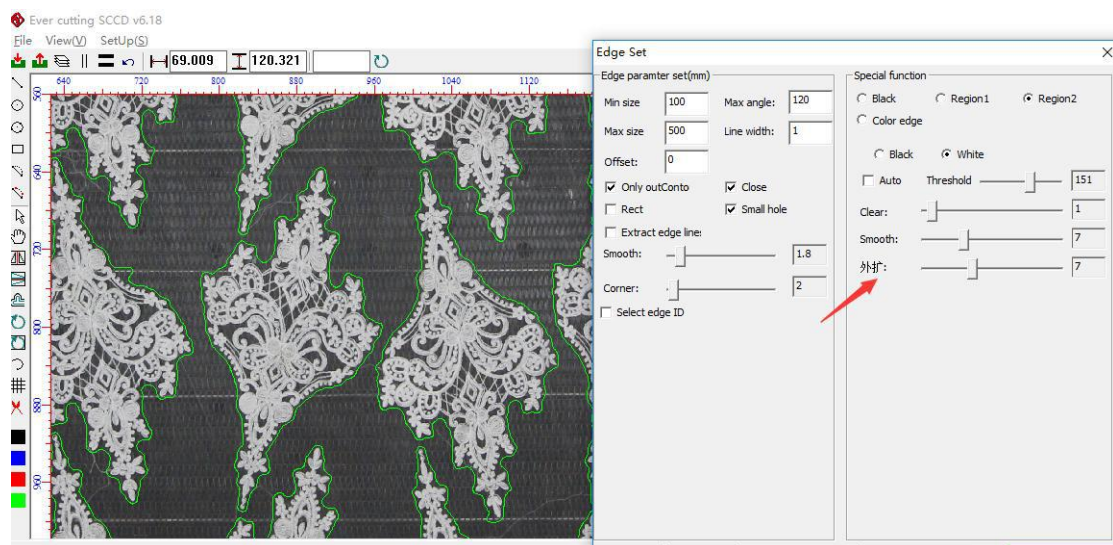
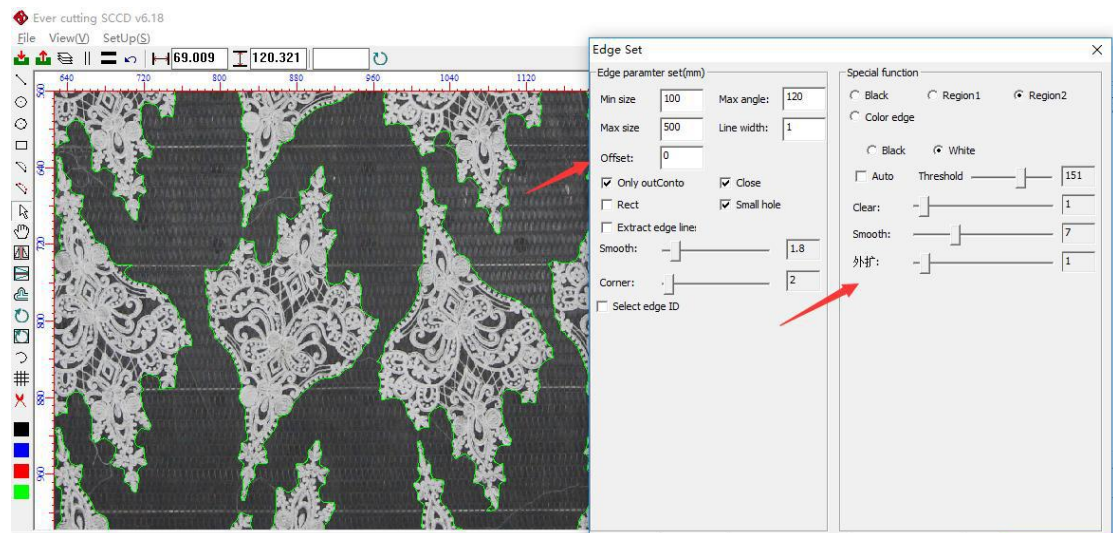
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## 2 smoothing factor adjustment

Smoothing factor; fine-tuning the cut line smoothing

## 3 external expansion

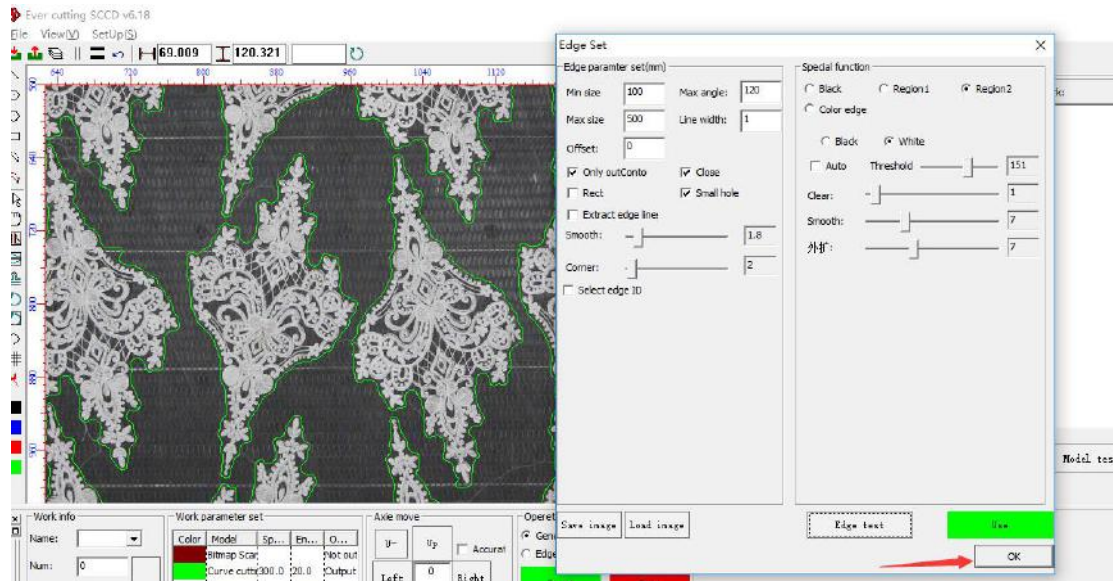
The expansion expands the graphic cutting line to the outside. Remarks to adjust the zoom to 0 when the expansion is not supported.





Fourteenth step

Click on the trimming test to see if the graphic cut meets the cutting requirements. If the cutting requirements are met, click OK. If the parameters are not met, re-adjust the parameters.



Click all automatic tracking after all steps are completed.