

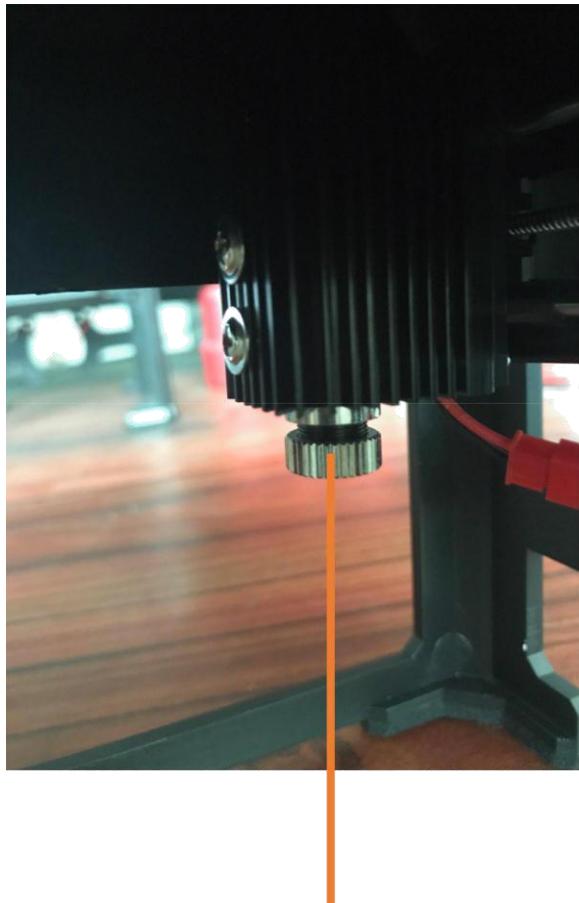
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Laser Engraver

User Manual

For more, Please visit <http://www.tiaprotoal.weebly.com/scarve.html>

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Focusing adjustment before using: turning the focus cap until the laser light converged into one point very small.

When it in unworking state you can control the laser head movement by press the direction button, additon to, the middle button can be used to control its suspended or start carving.



Here with two port, one for Power, one for usb cable, please keeping it on connecting when start using it.

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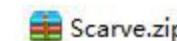
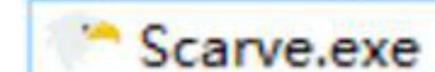
Laser Engraver Guidance

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How to open the software

Green Version

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libGLESV2.dll	2016/6/10 15:16
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libwinpthread-1.dll	2015/12/29 6:25
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Qt5QuickTemplates2.dll	2016/6/13 3:50
Qt5SerialPort.dll	2016/6/11 2:13
Qt5Svg.dll	2016/6/11 1:51
Qt5Widgets.dll	2016/6/10 15:29
Scarve.exe	2017/4/25 16:56



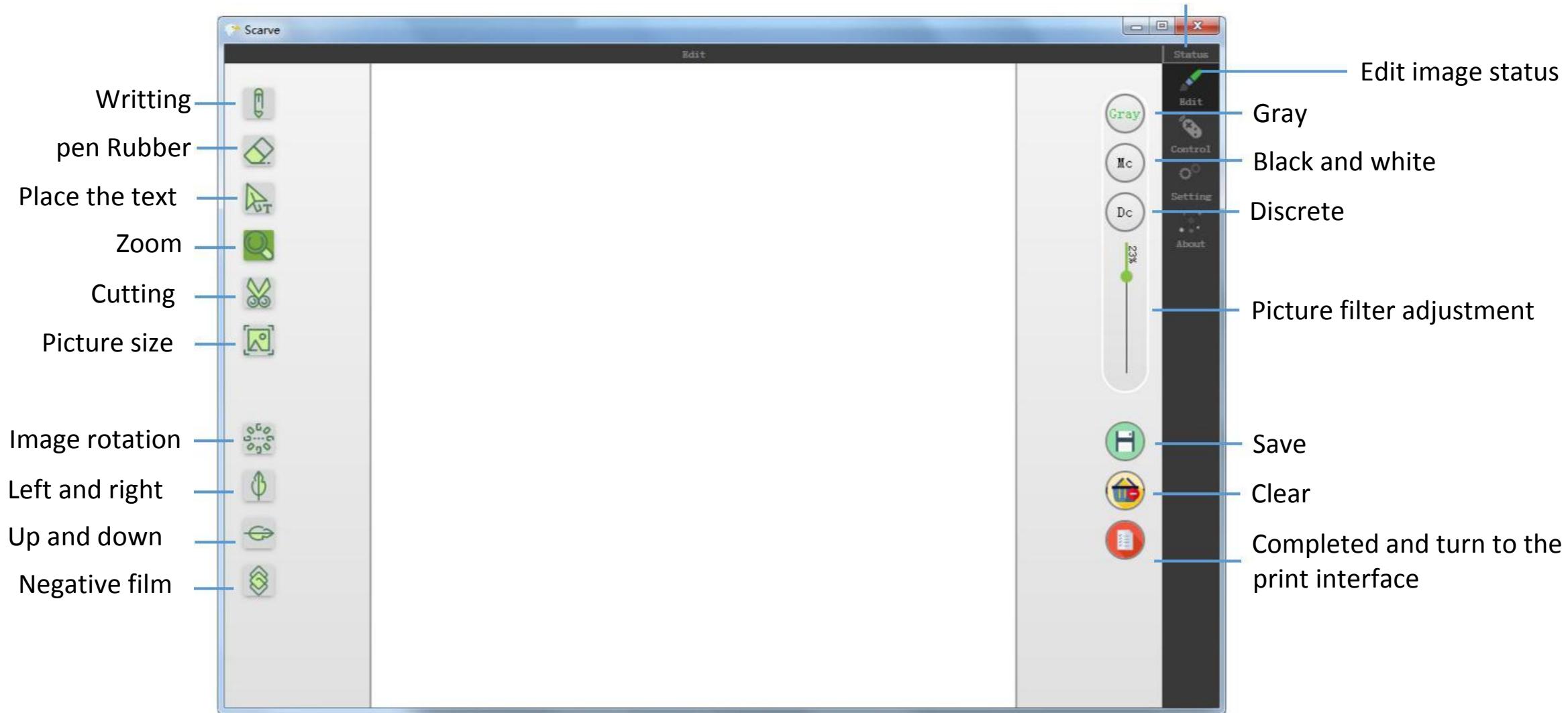
Unzip the software as shown on the left, click Scarve.exe twice to open the software, you can also send Scarve.exe to the desktop.

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Software description

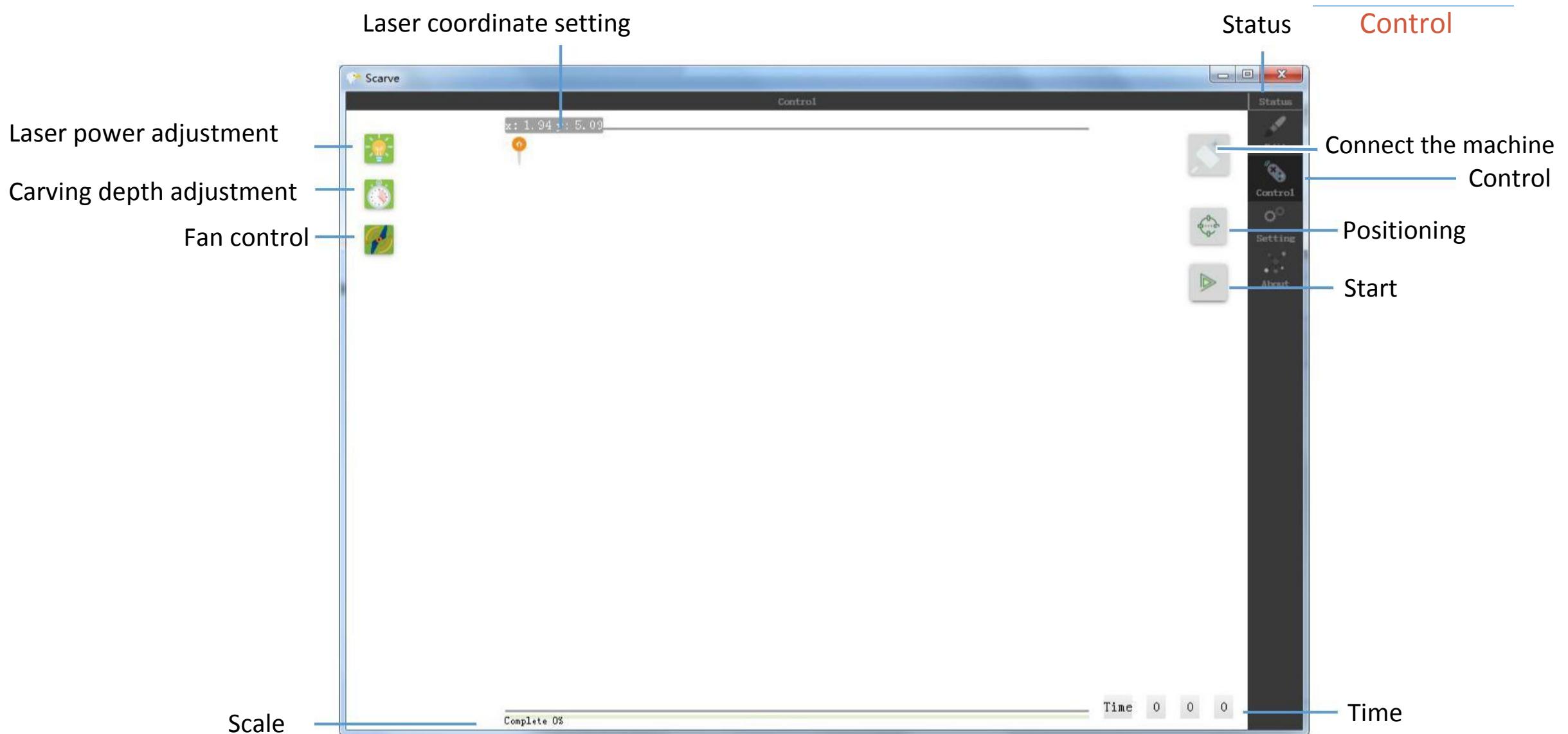
Status

Edit image



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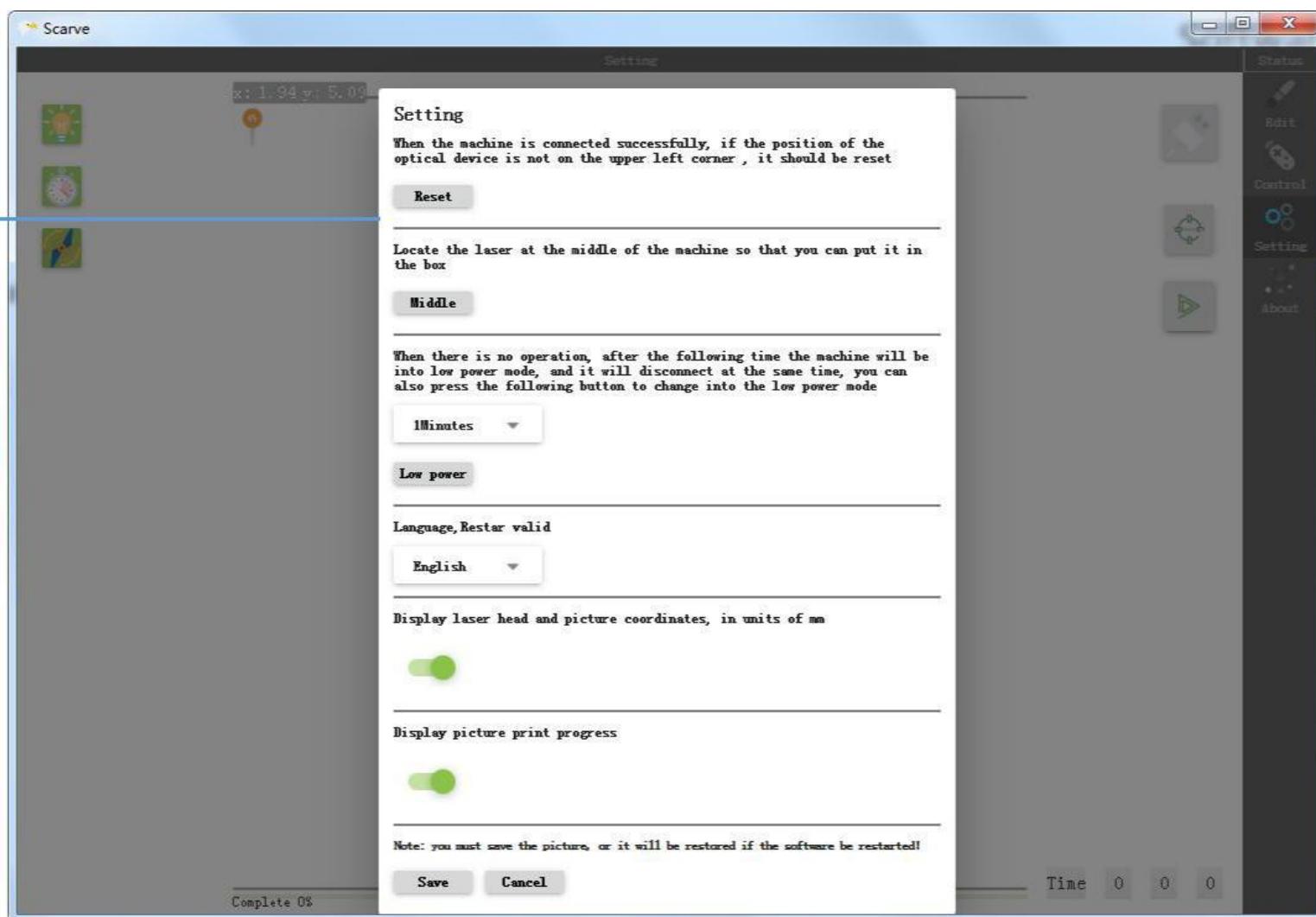
Software description



Software description

Setting

Control setting

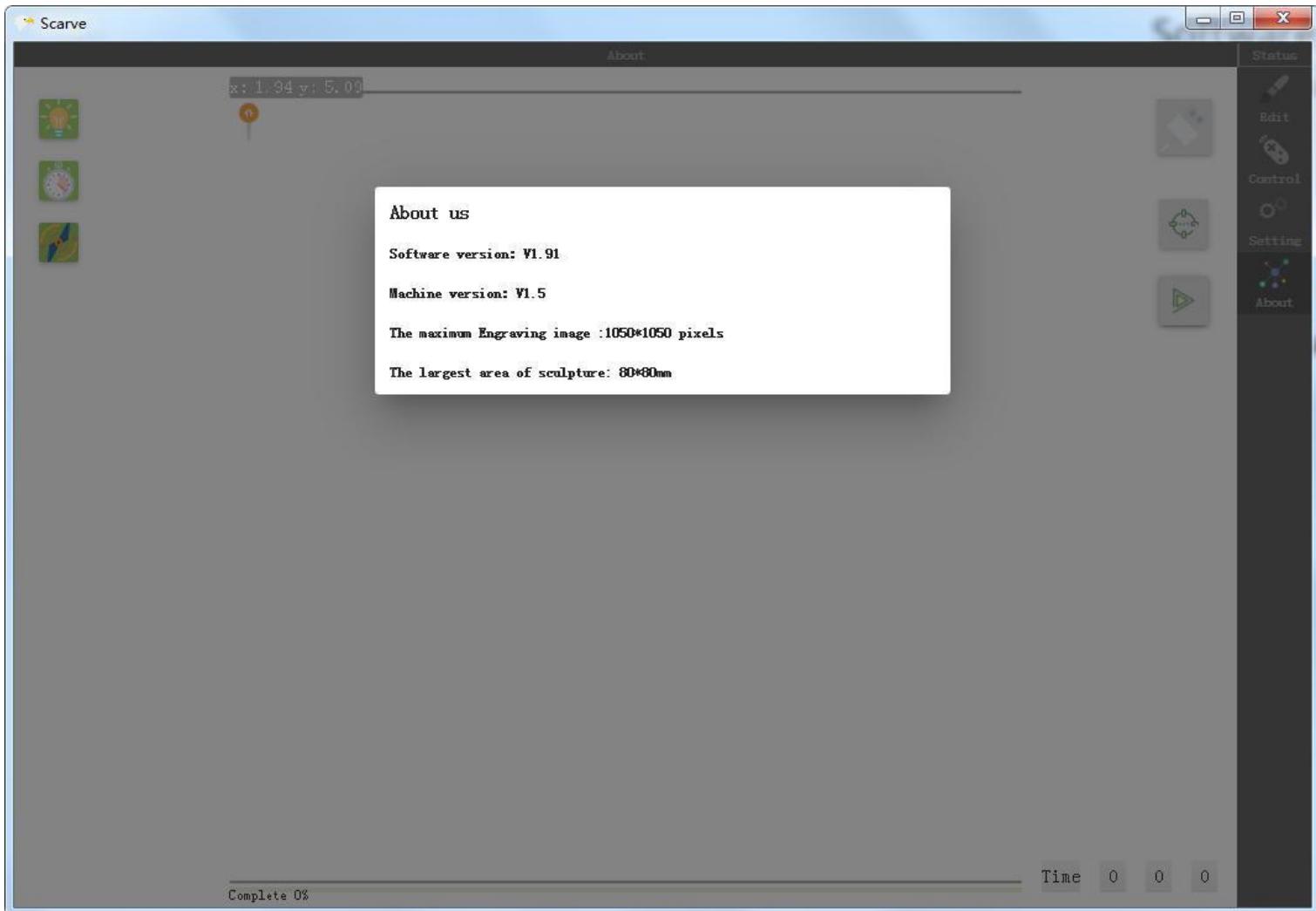


Machine Setting

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Software description

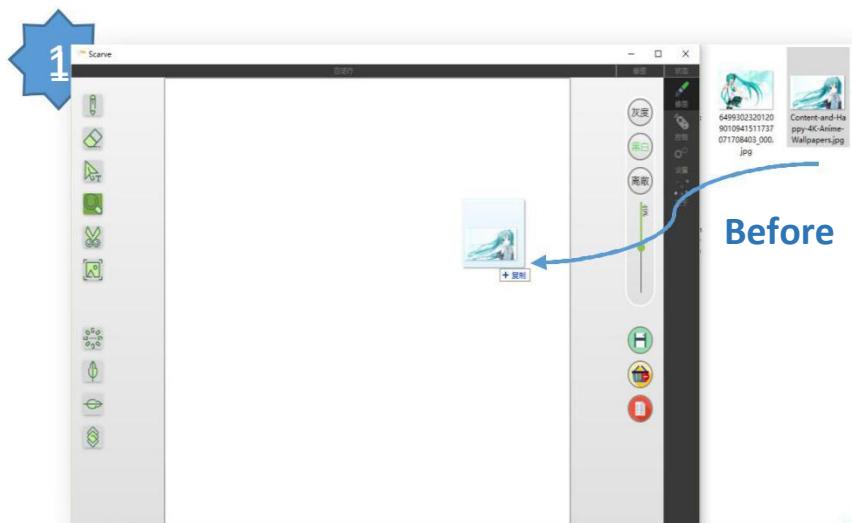
About



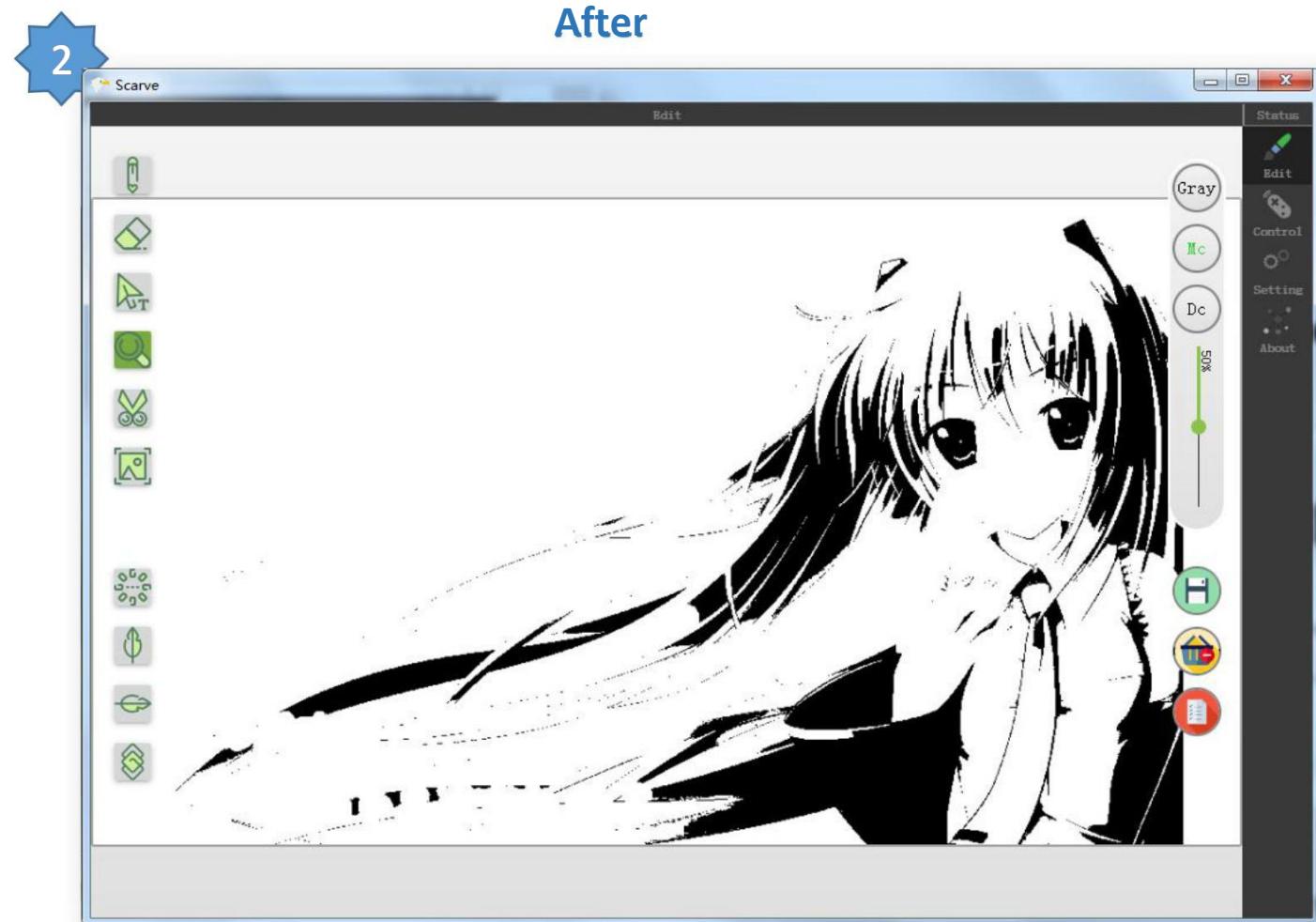
About

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Simply image editing



Before



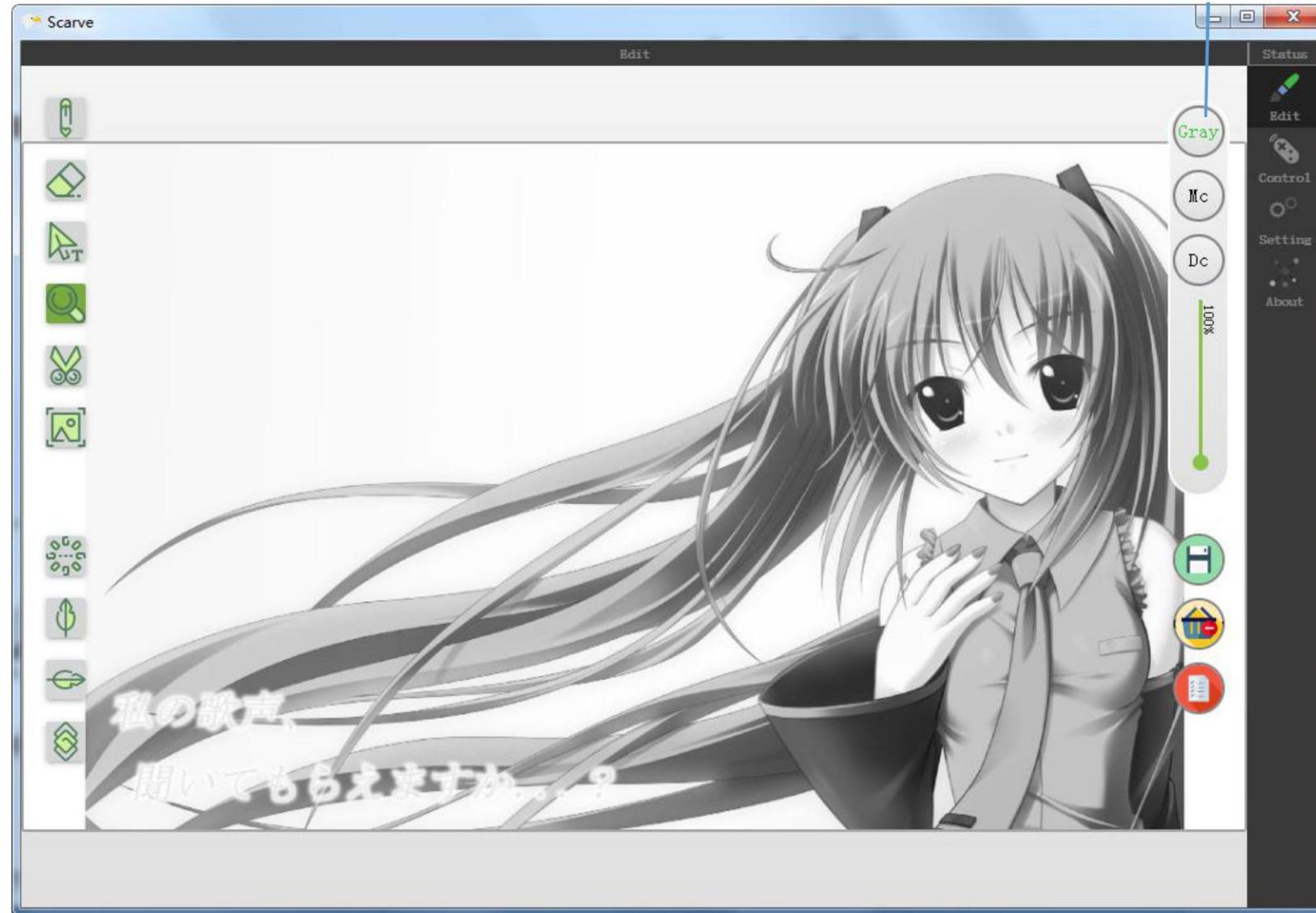
After

Load the picture

Simply image editing

Image effect

Grayscale effect



Black and white effect



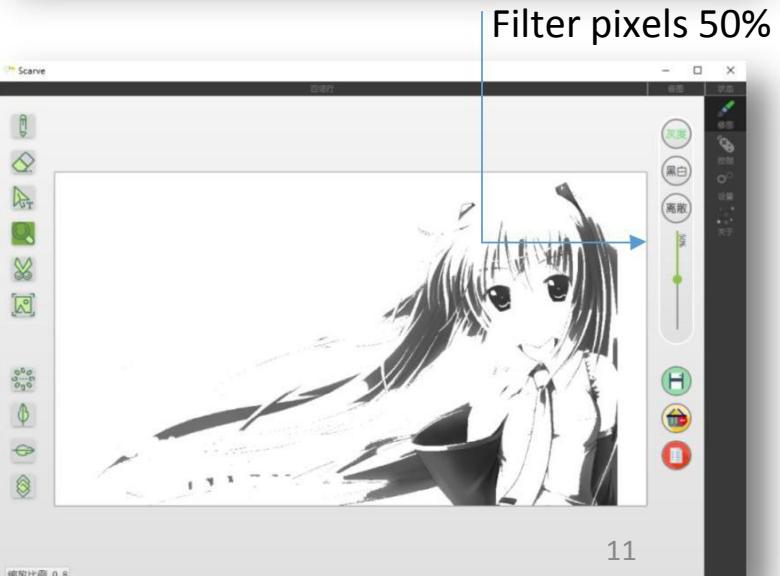
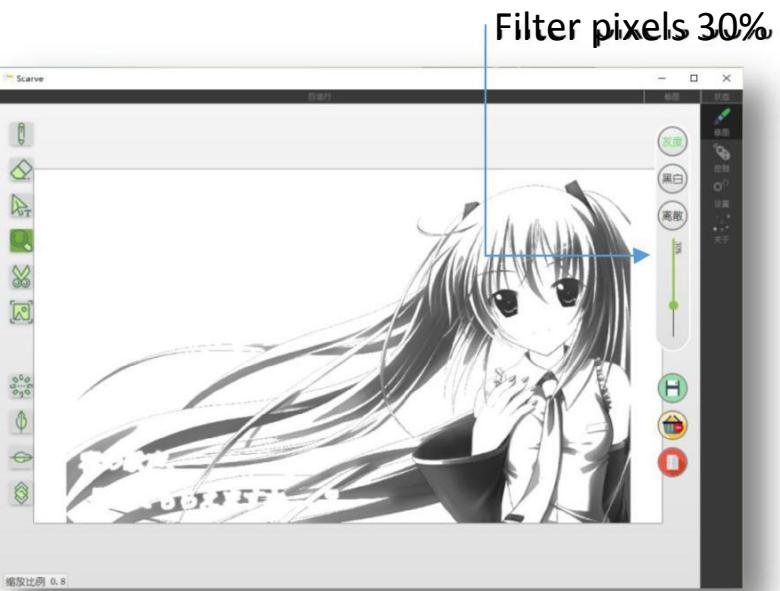
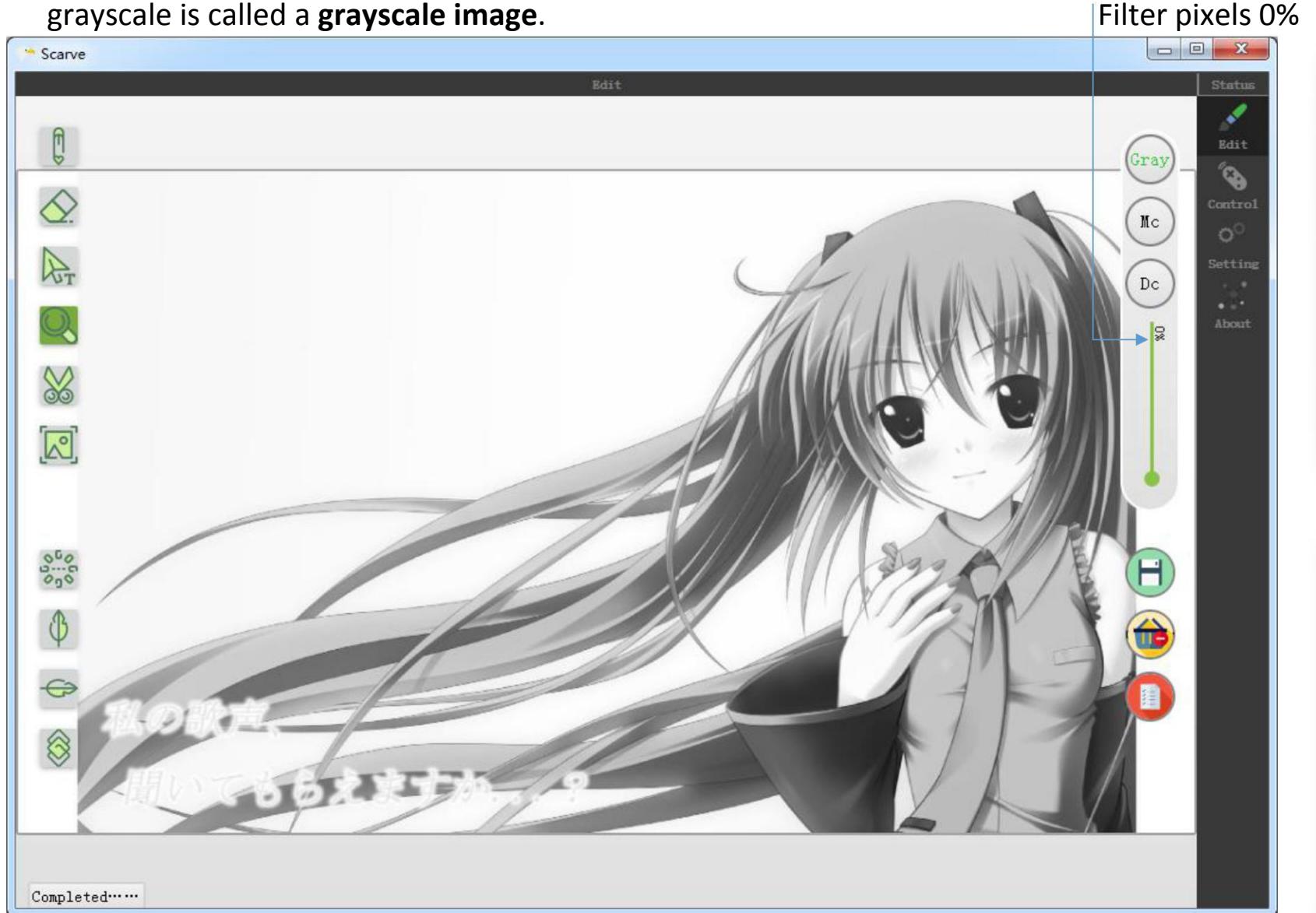
Discrete effect



Gray effect: filter the color of the picture, leave white and black, divided into several levels according to the logarithmic relationship, known as **grayscale**. Gray scale is divided into 256 steps. An image expressed in grayscale is called a **grayscale image**.

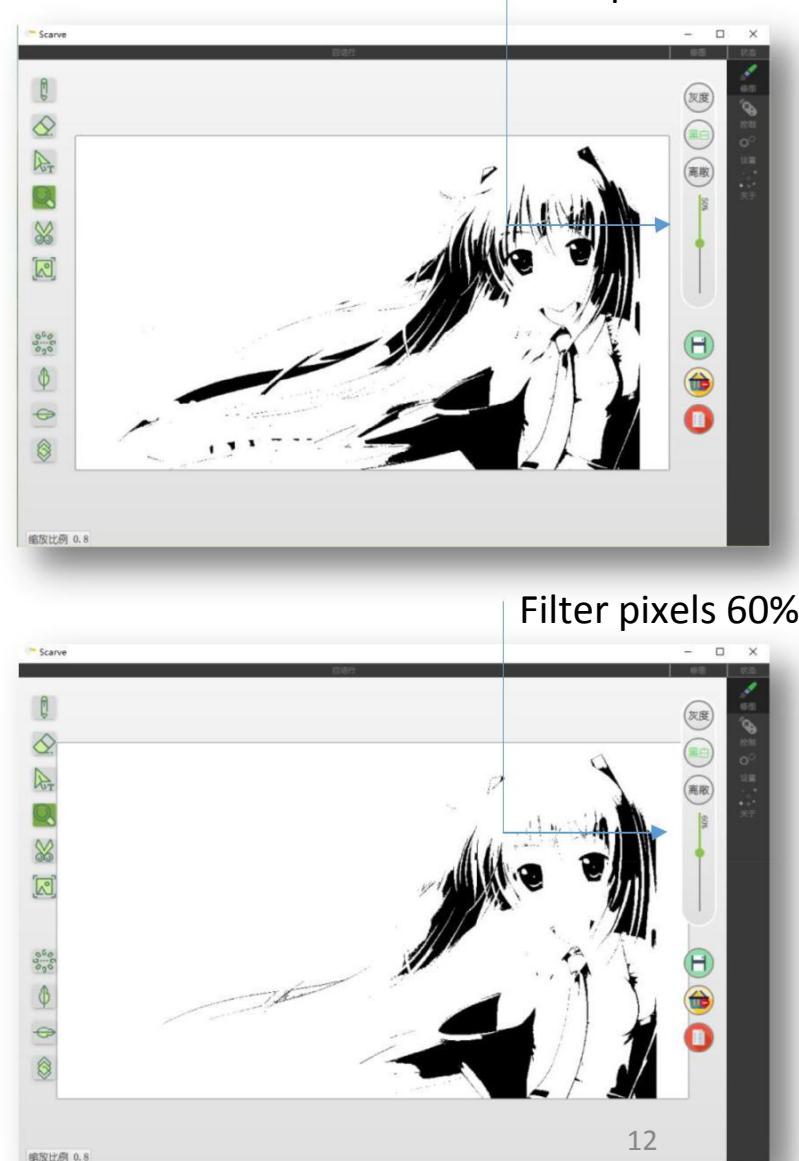
Simply image editing

Filter gray pixels



Black and white effect: filter the picture color, leave only white and black. Images in black and white are called **black-and-white images**.

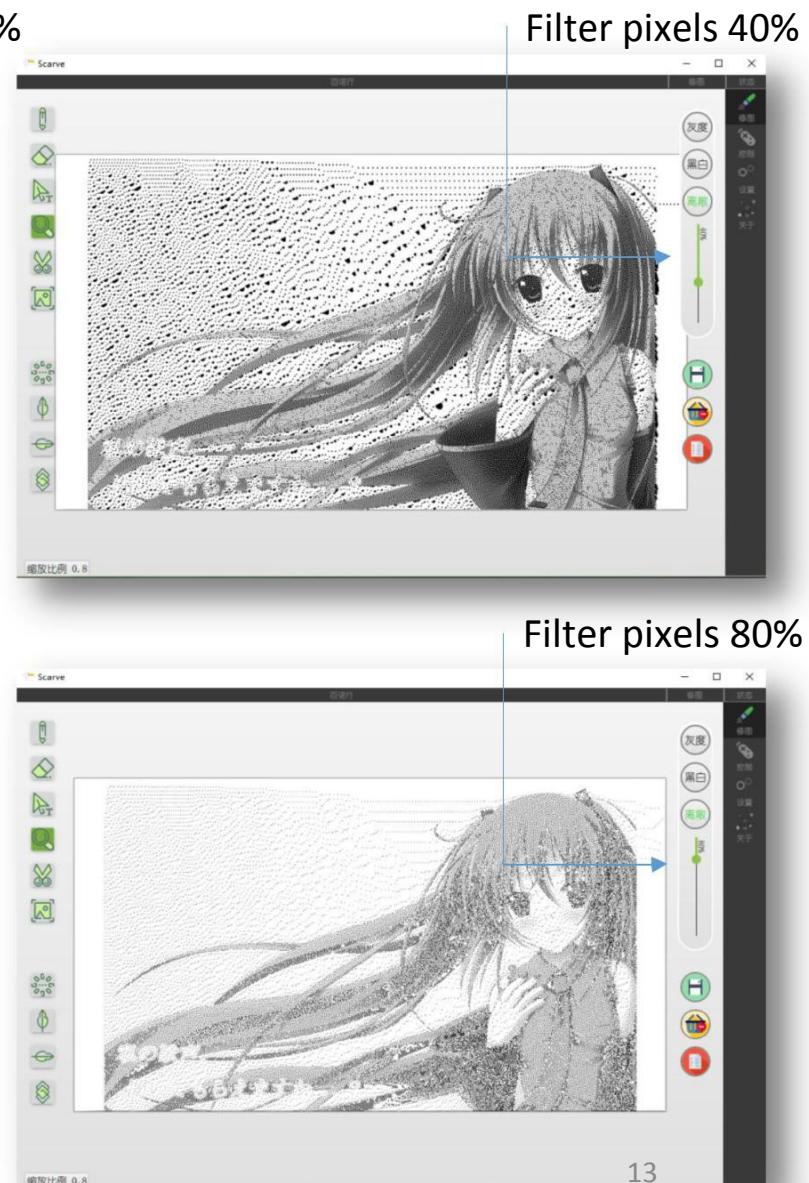
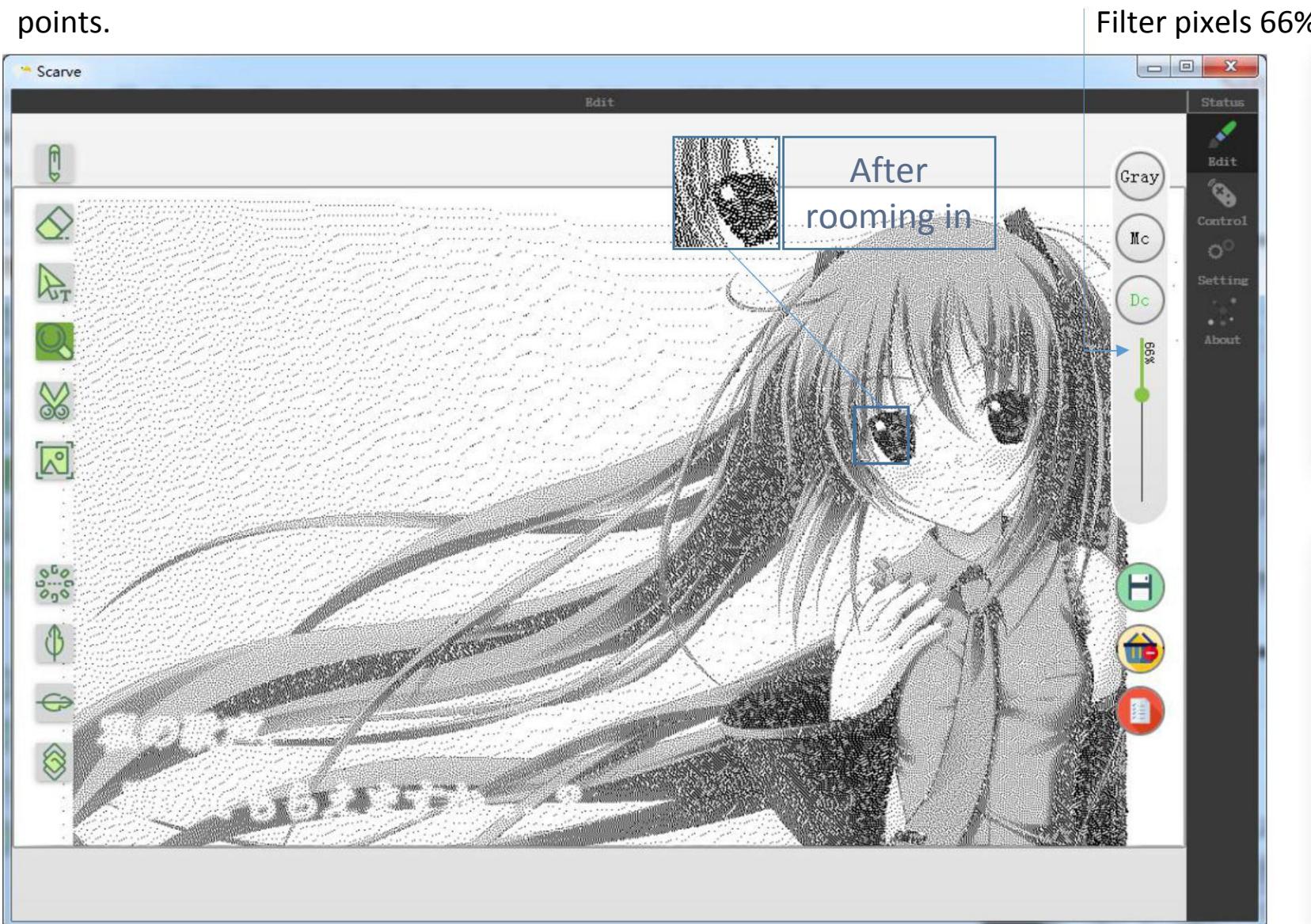
Simply image editing
Filter black and white pixels



Discrete effect: filter the picture color, leave only white and black. And calculate the distribution **density** of black spots in the image according to the original image color value, so the discrete image looks a lot of discrete points.

Simply image editing

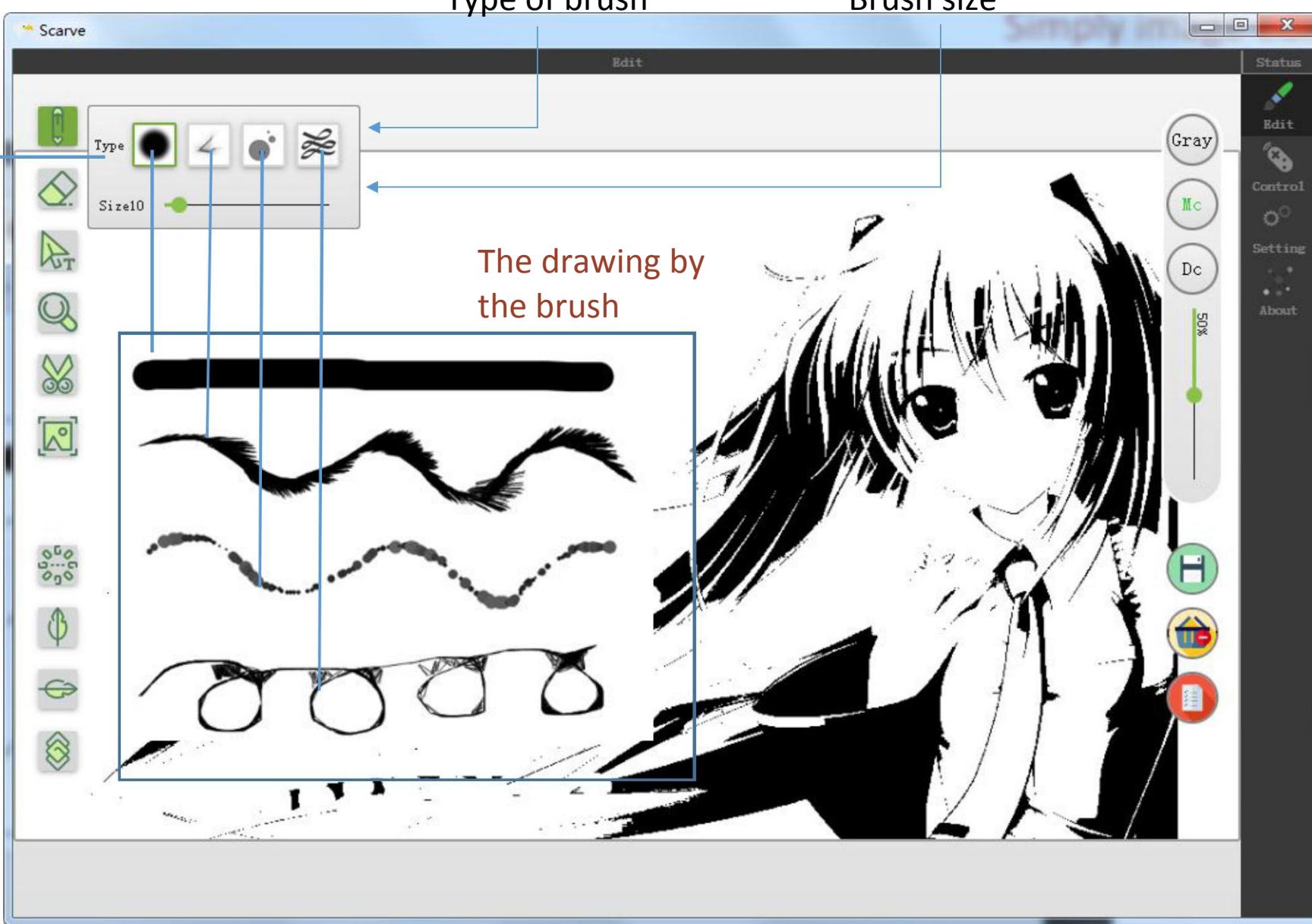
Filter discrete pixels



Simply image editing

The use of brush

Submenu:
Click the button,
the submenu
will be
appeared when
the mouse is
suspended in
the Brush icon



Simply image editing

The use of eraser

Submenu:
Click the button, the submenu will be appeared when the mouse is suspended in the Eraser icon



Simply image editing

Place the text

To be placed; use the mouse to drag the green box to choose the position, double-click the picture to complete the placement

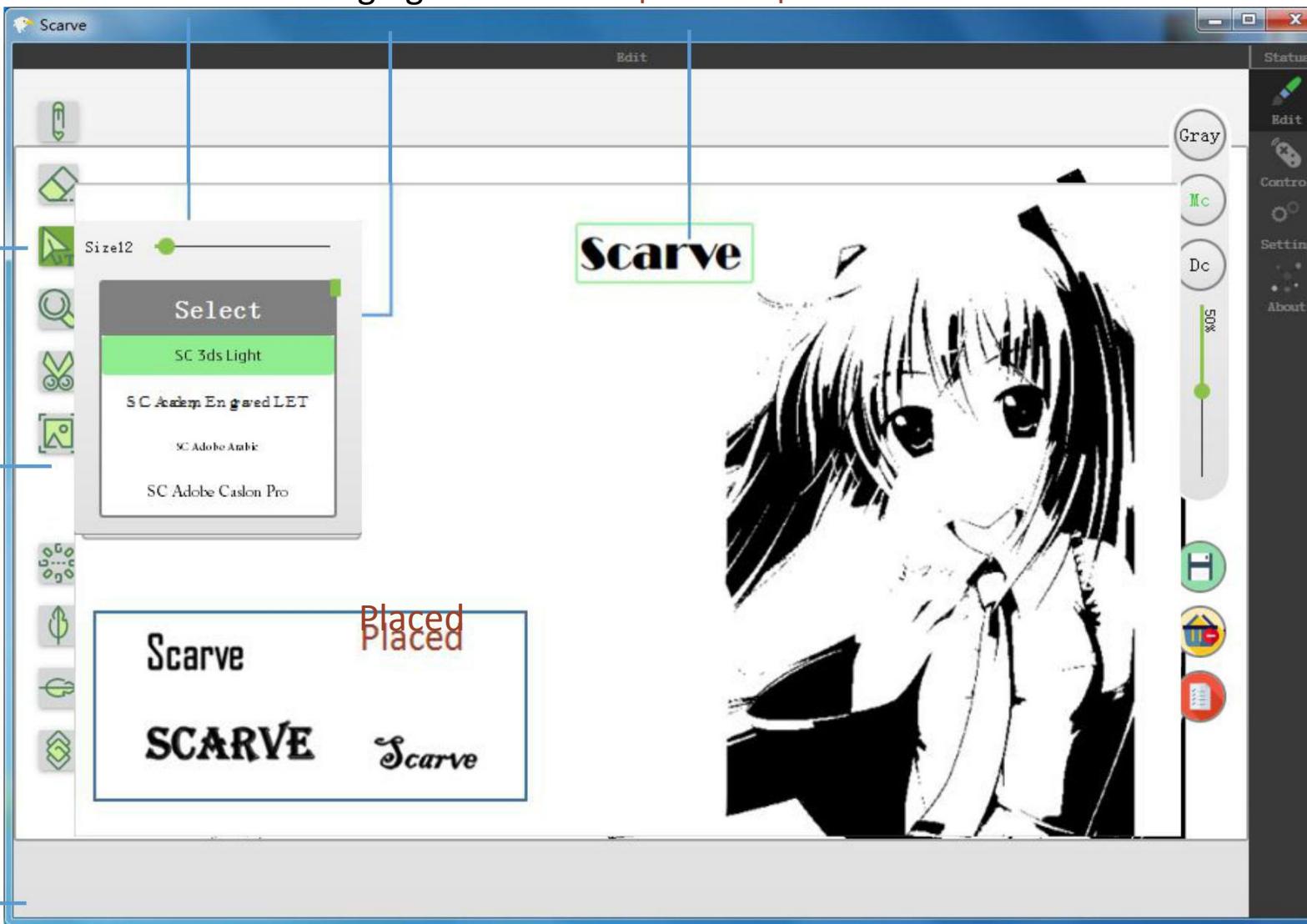
Text size draging bar

Submenu:

Click the button, the submenu will be appeared when the mouse is suspended in the Text icon

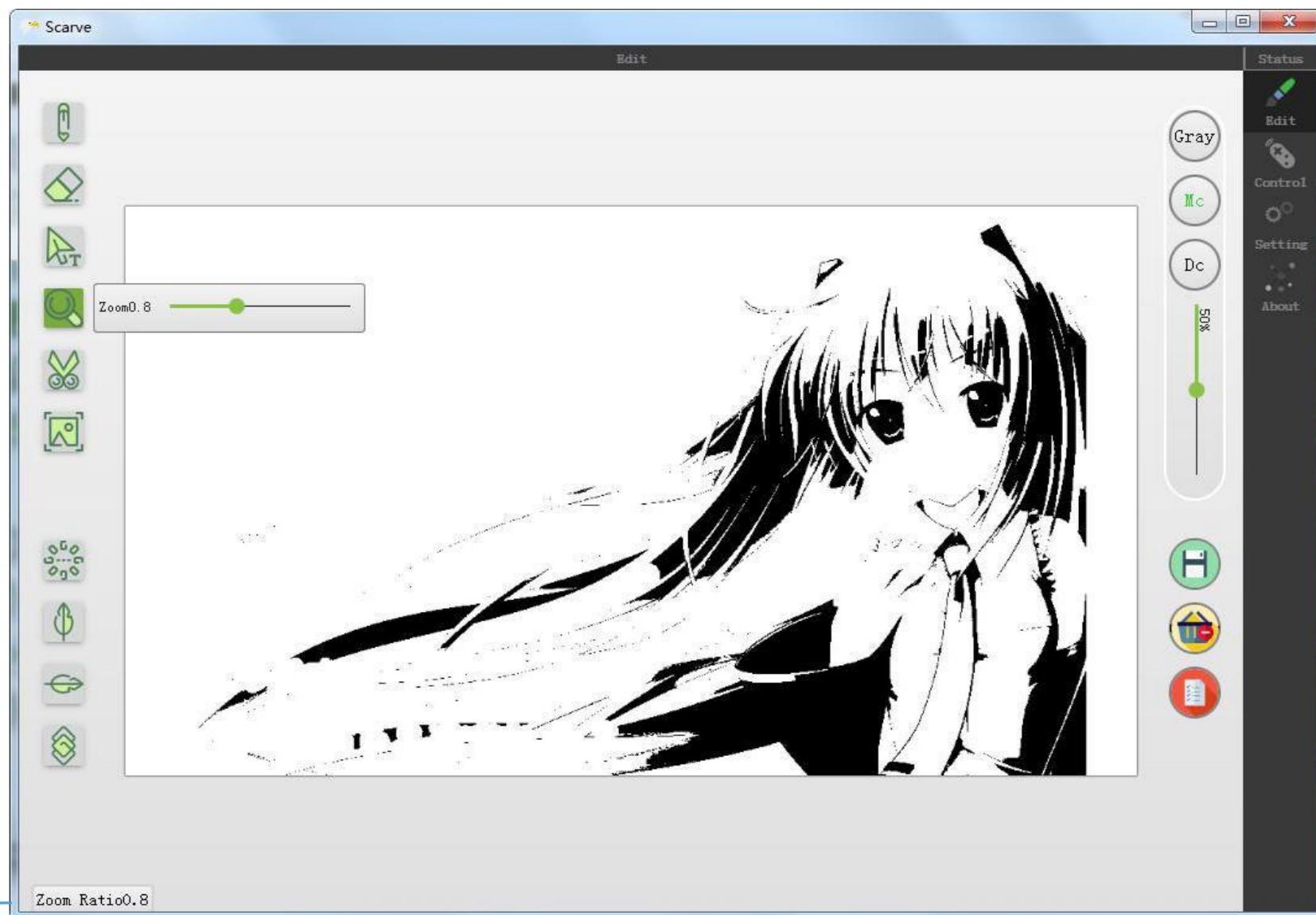
Font

Prompt



Simply image editing

Zoom in/out



Zooming in/out can not change the image size, just to facilitate the operation of the image, in the zoom mode can move the image

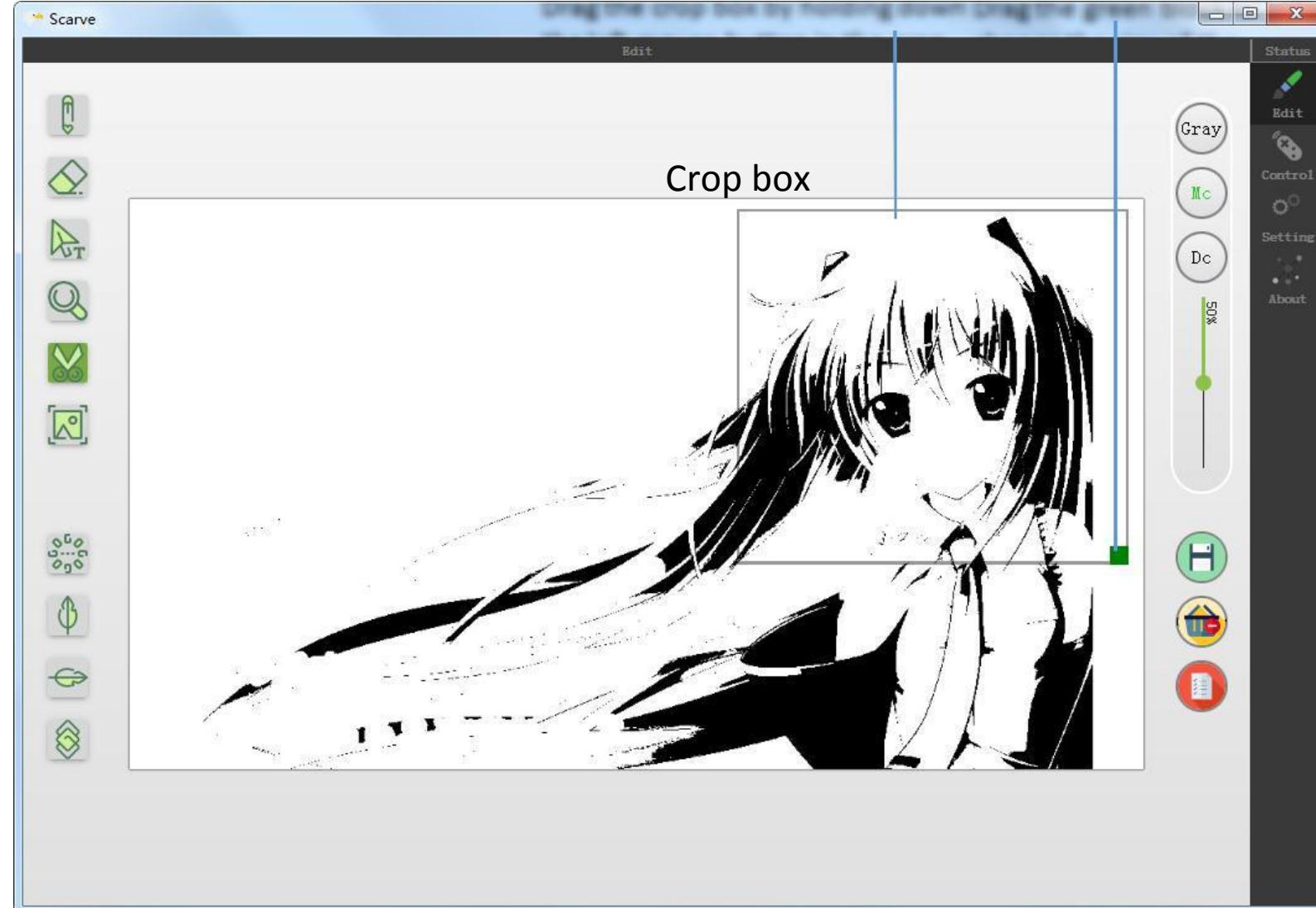


Simply image editing

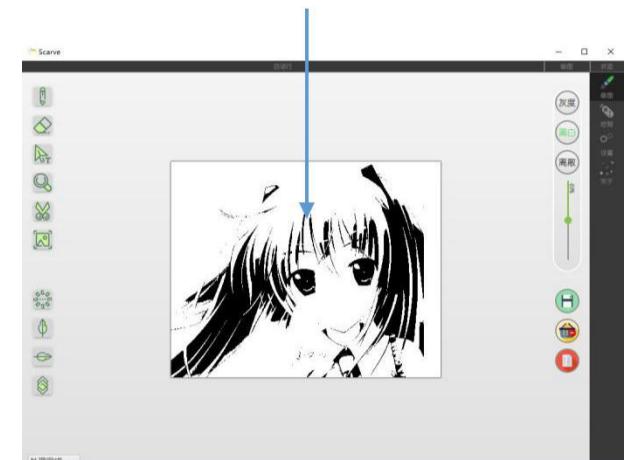
Crop

Drag the crop box by holding down the left mouse button in the crop box

Drag the green block to change the size of the crop box



Double-click the inside of the crop box to complete the crop



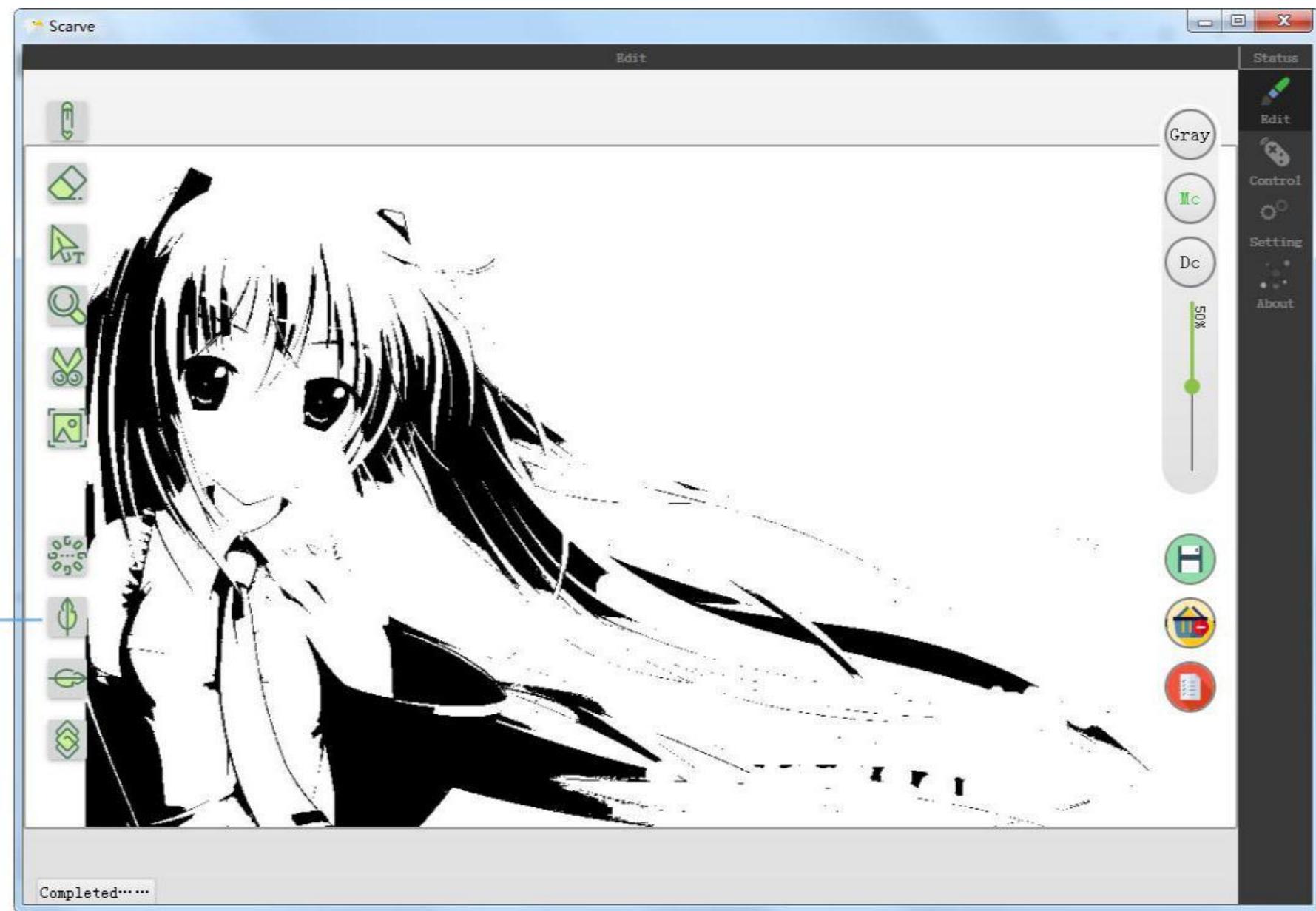
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rotate image

Simply image editing

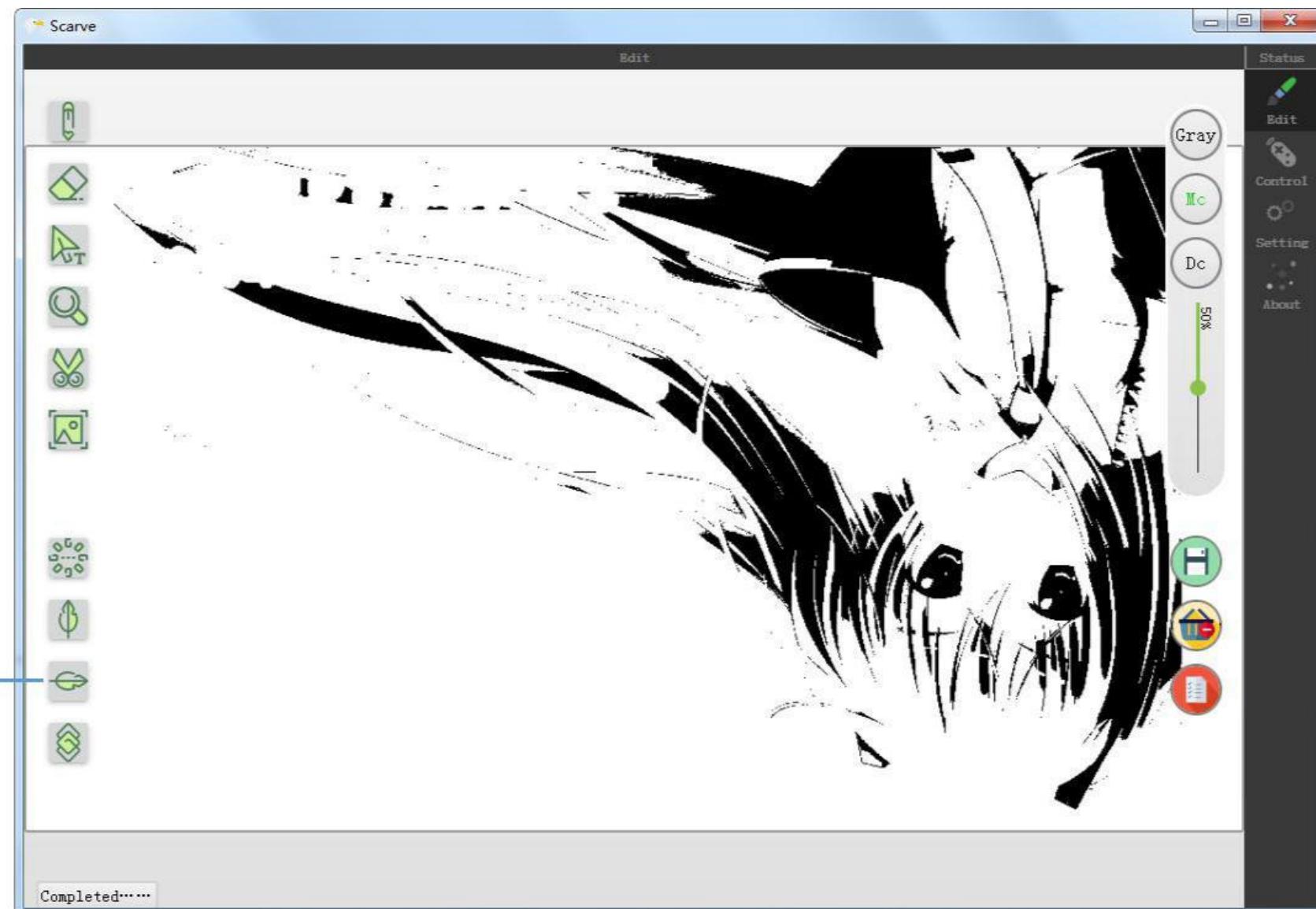
Mirror left-right



Click to
finish
mirror left-
right

Simply image
editing

Mirror up-
down



Click to
finish
mirror
Up-down

Simply image editin

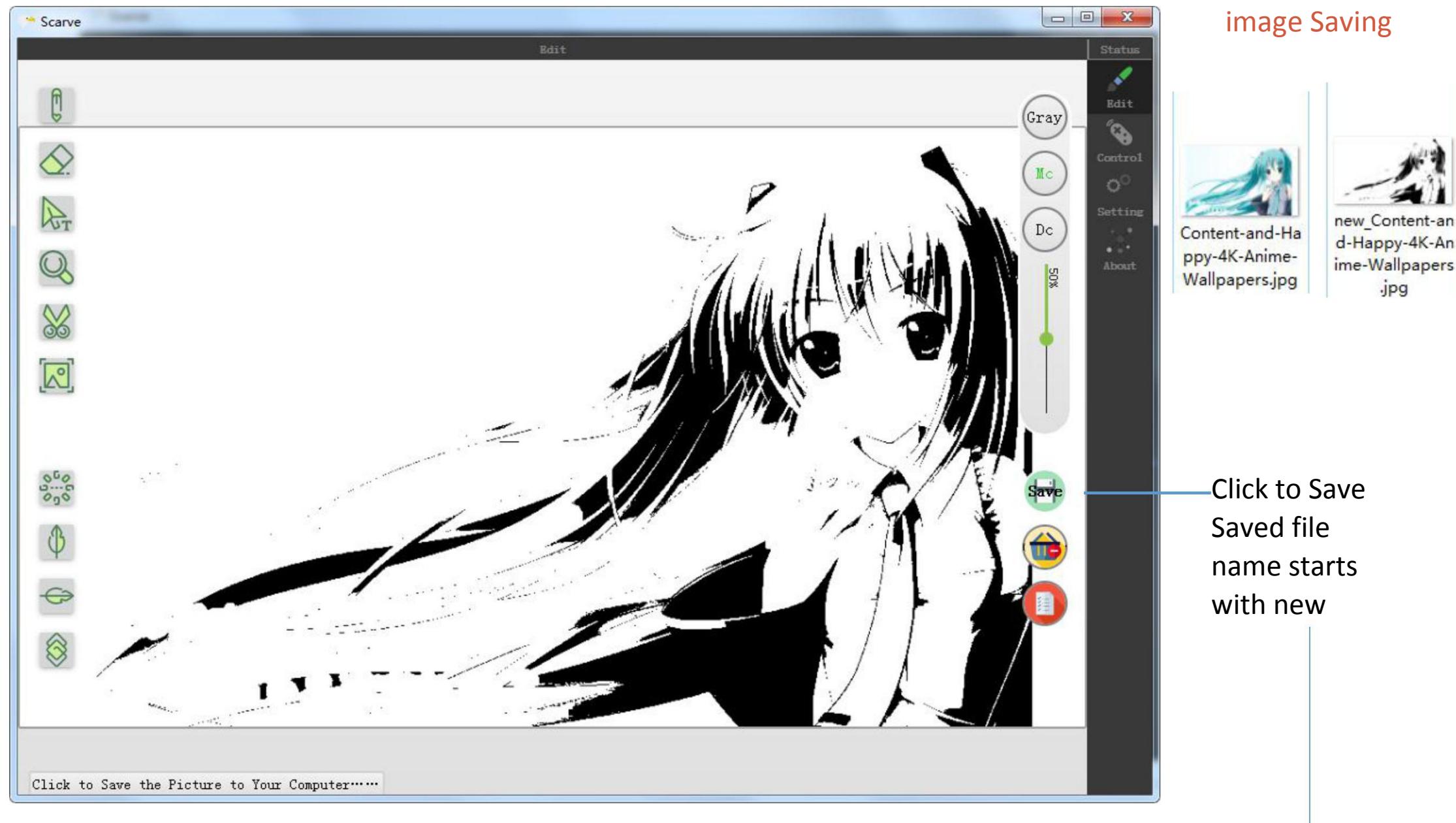
photographic
film Invert



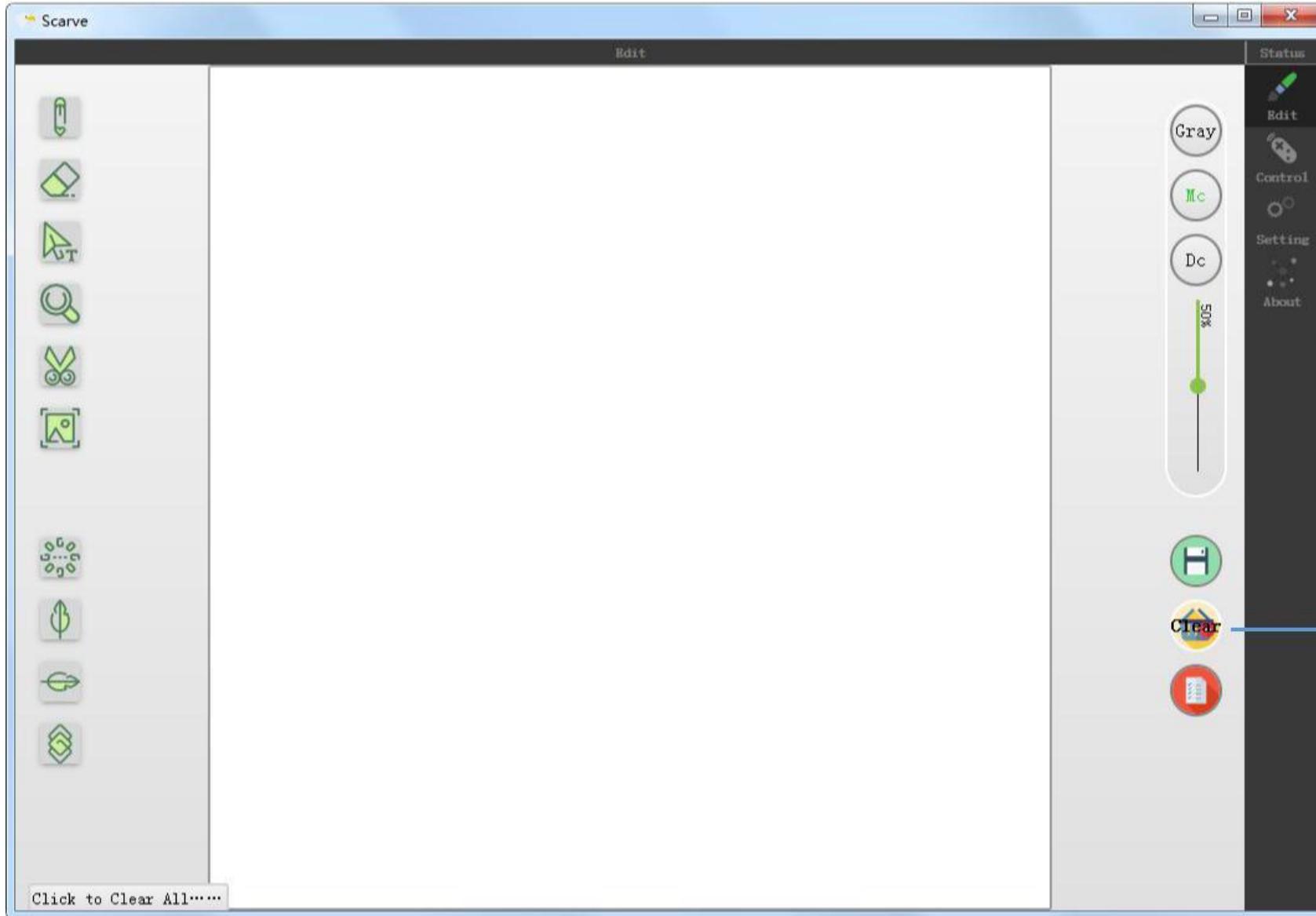
Click to
finish
photograph
ic film
Invert

Simply image editing

image Saving



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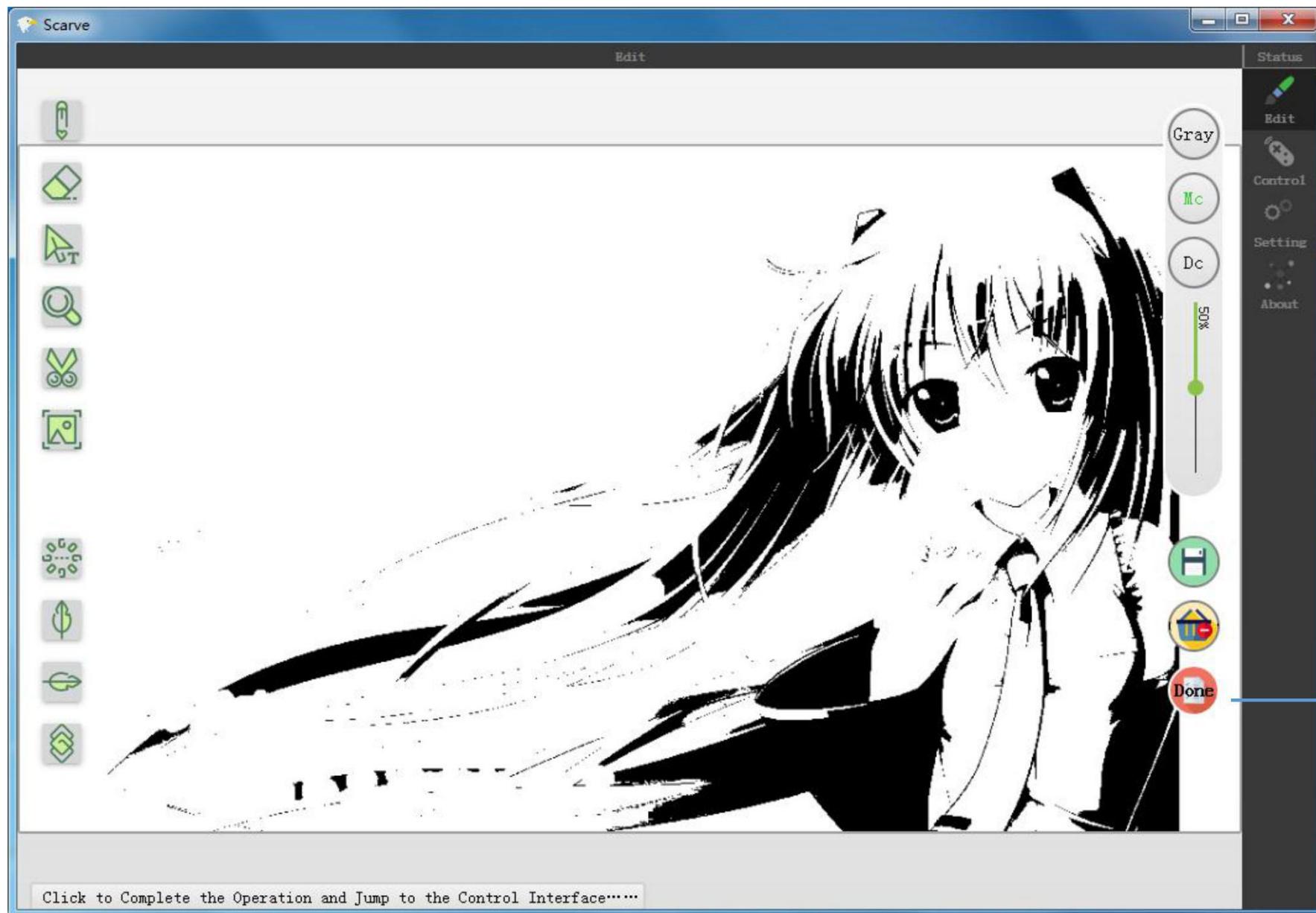


Clear
operation

click to clear
operation

Simply image editing

photographic
film Invert



Click to load
image to
control
interface

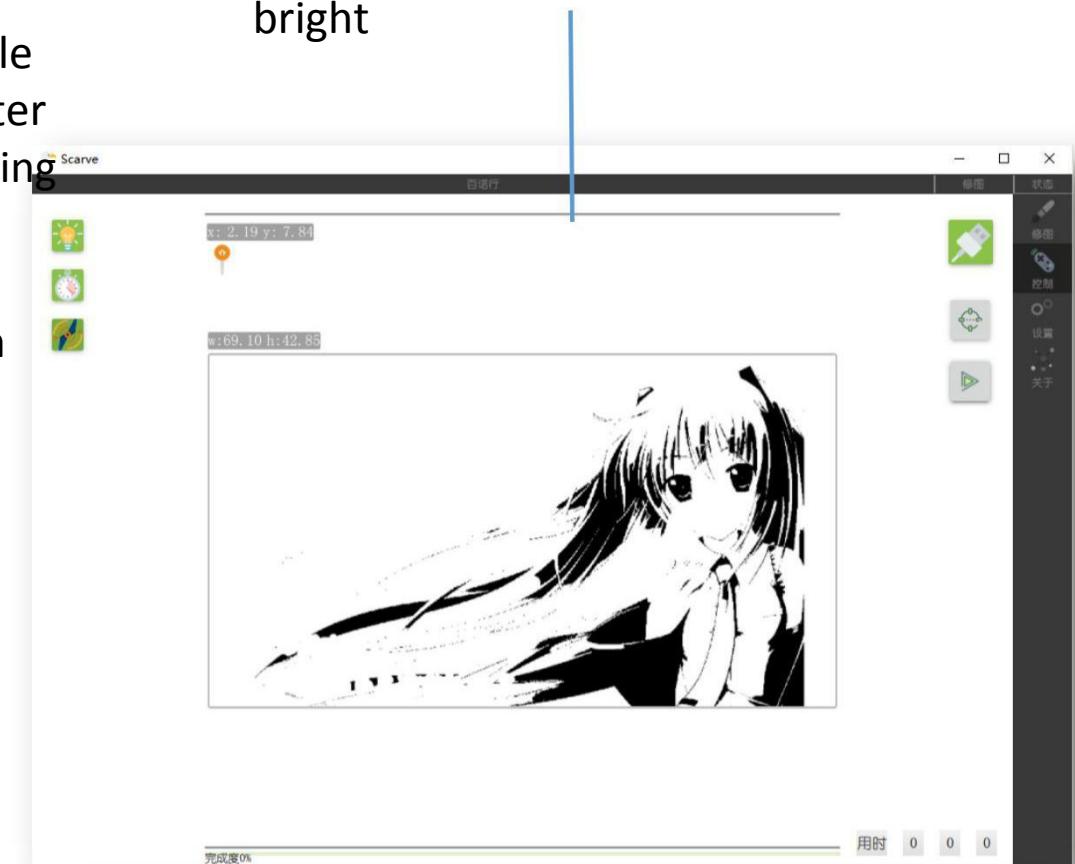
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Engraving Control

Connect engraver



After
Successful
Connect the
USB Data
Cable and
Power Cable
on Computer
and Engraving
Machine,
click
connection



After Connect successful ,
both the button and engraving
machine laser head becomes
bright

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Engraving Control

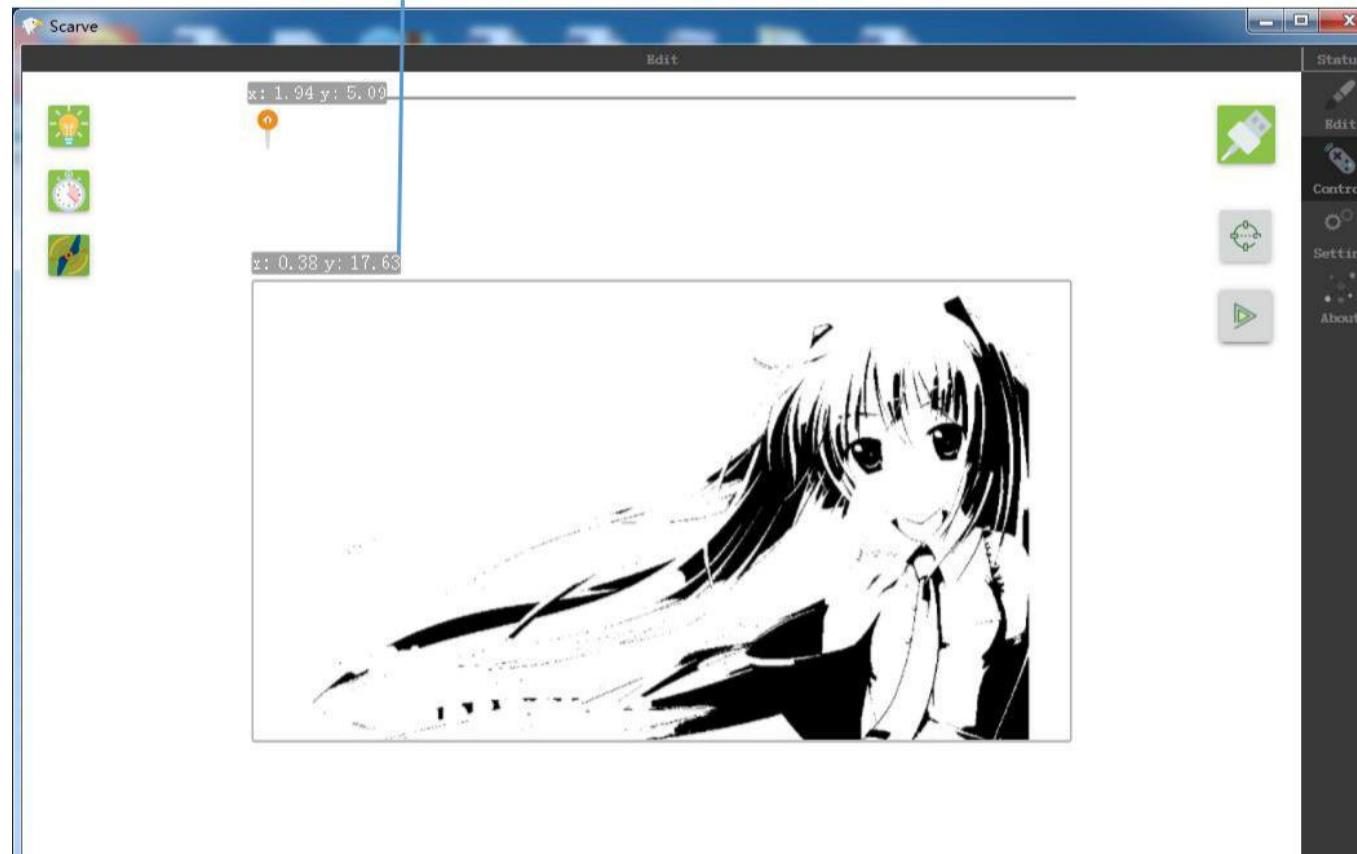
Laser
Positioning

You can drag the icon in an unprinted state, and the laser will be positioned to the coordinates after release



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Picture Width and Height in mm



Click to Box
Positioning

Brightening
indicates Box
Positioning



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Engraving Control

Box Positioning

In the box positioning state,
right-click in the print area
to locate the fine-tuning



Box
positioning
when brightened

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Start Engraving



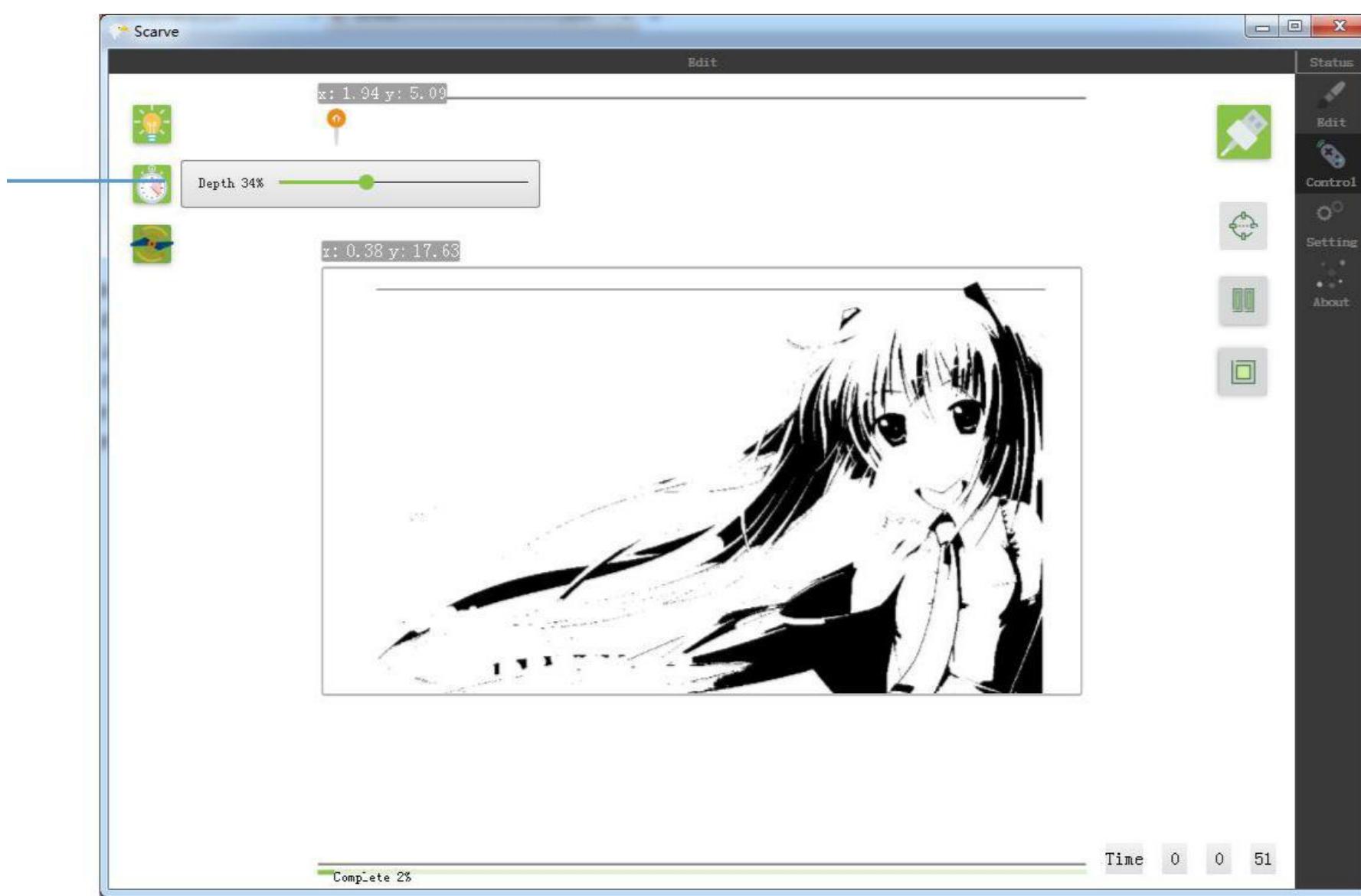
Engraving Control

Laser Power Adjustment

Laser power adjustment, 100% means full power output, adjust to 100% for normal use, if the material is very sensitive from light, you can properly reduce the laser power



Engraving Depth Adjustment:
The Larger Depth Value will Engrave the Darker Image, and will take Longer Engraving Time



Fan Control:

The fan blows away the smoke and improve the Engraving quality.

When the Button in bright, the fan will automatically open during Engraving, stop engraving will automatically shut down the fan.

When the button is grayed out, the fan will not open.



Gray Mode Effect:
Engraving Depth of 20%
Engraving Power 80%



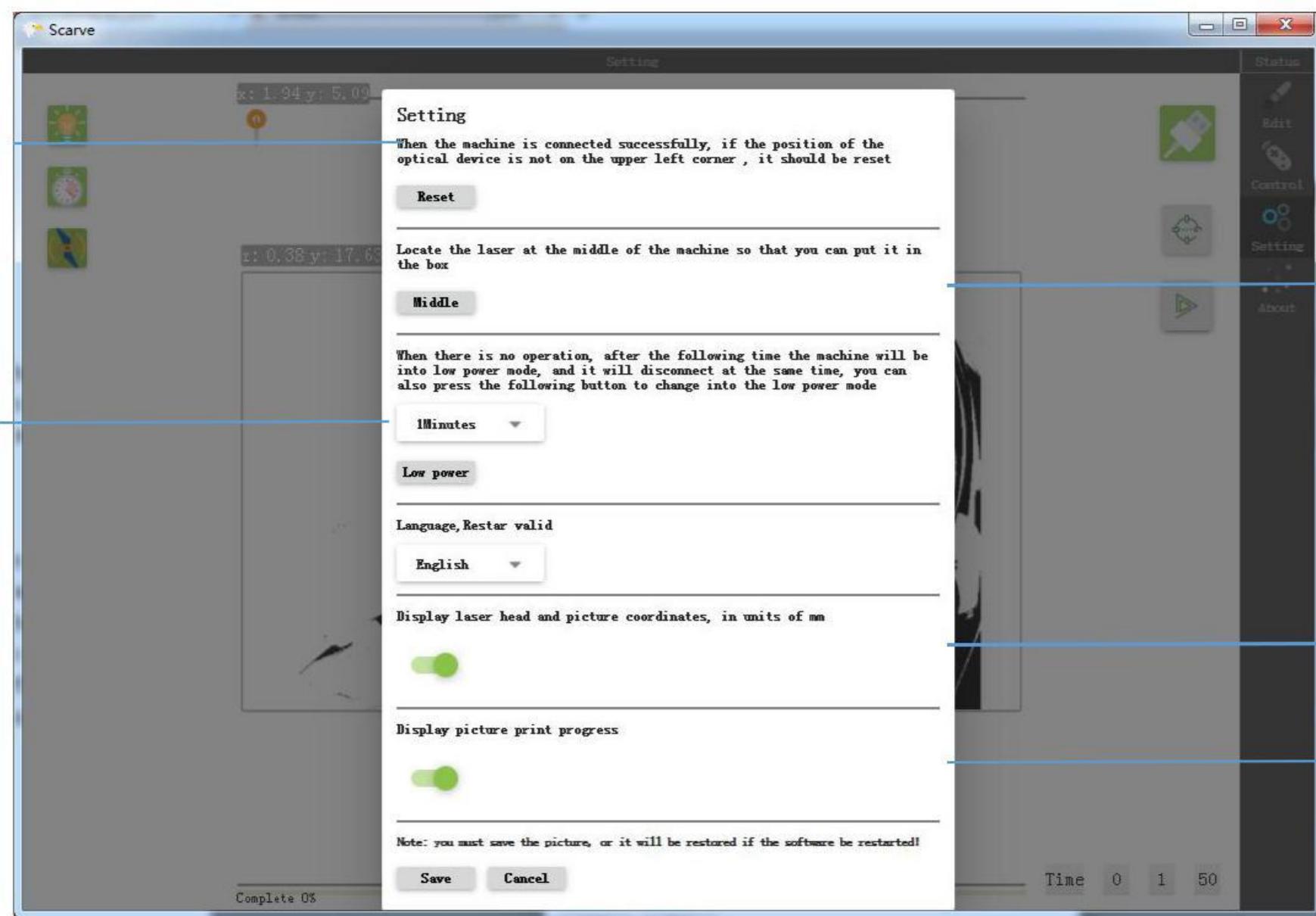
Discrete Mode Effect:
Engraving Depth 25%
Engraving Power 100%



Black and White Mode Effect:
Engraving Depth 25%
Engraving Power 100%



Click the Laser to
Return to the Origin
Position



Click the
Button,The Laser
will be positioned in
the Middle

Set the Engraver into
the Low Power Mode,
Click the Below Save
Button to indicate
that the setting was
Successful

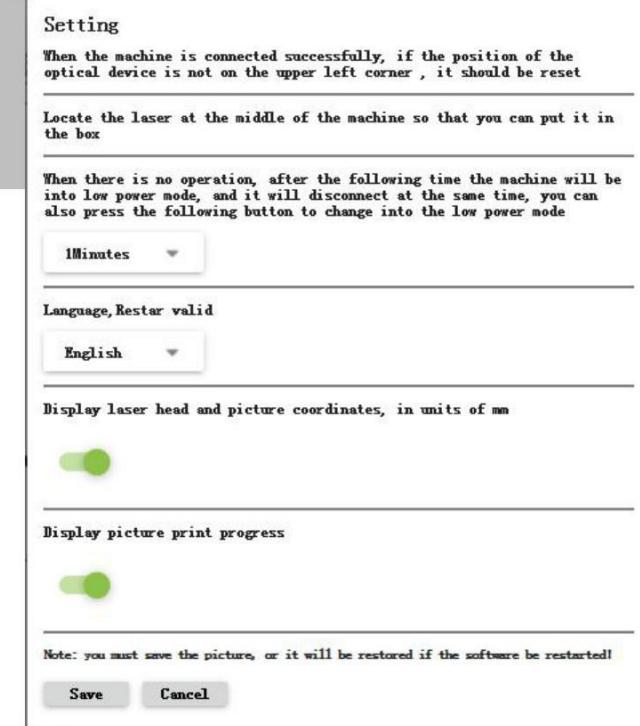
Indicate the Relevant
Coordinates of the
Engraving

Display the progress

If the picture needs to be filtered, it is prefer to use the filter pixel function, the **Pixel Filtering**: filter function is to use the original image for pixel filtering, If you make other changes after the image is filtered (such as adding text) , all other operations will be filtered out

Setting:

Setting the Status Bar while Engraving will hide Some other Settings, as shown on the Right Picture



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- Solutions of Errors in Scarve software: www.Tiportal.weebly.com/scarve.html
 - Manual in Chinese can be download from: www.tiportal.weebly.com