

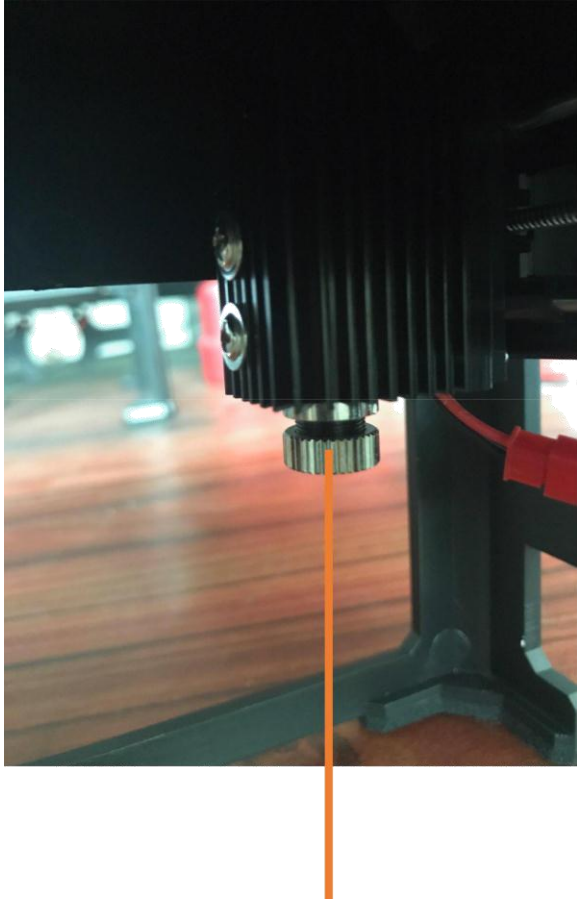
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Laser Engraver

User Manual

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

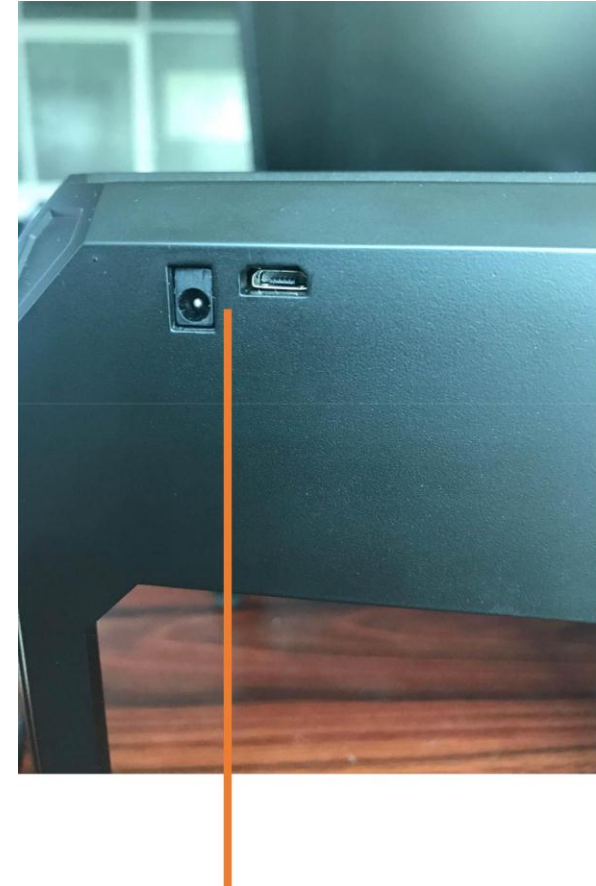
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Focusing adjustment before using: turning the focus cap until the laser light converged into one point very small.



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.

Laser Engraver Guidance

- How to open the software 3
- Software description 4-7
- Simply image editing 8-25
- Engraving control 26-34
- Setting 35
- Precautions for Use 36

How to open the software

Green Version

bearer	2017/3/8 9:36
iconengines	2017/3/8 9:36
imageformats	2017/3/8 9:36
platforms	2017/3/8 9:36
qml	2017/3/8 9:40
qmltooling	2017/3/8 9:36
translations	2017/3/8 9:36
D3Dcompiler_47.dll	2016/9/7 12:24
libEGL.dll	2016/6/10 15:16
libgcc_s_dw2-1.dll	2015/12/29 6:25
libGLESV2.dll	2016/6/10 15:16
libstdc++-6.dll	2015/12/29 6:25
libwinpthread-1.dll	2015/12/29 6:25
Qt5Core.dll	2017/3/8 9:36
Qt5Gui.dll	2016/6/10 15:23
Qt5Network.dll	2016/6/10 15:17
Qt5Qml.dll	2016/6/11 20:22
Qt5Quick.dll	2016/6/11 20:35
Qt5QuickControls2.dll	2016/6/13 3:51
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



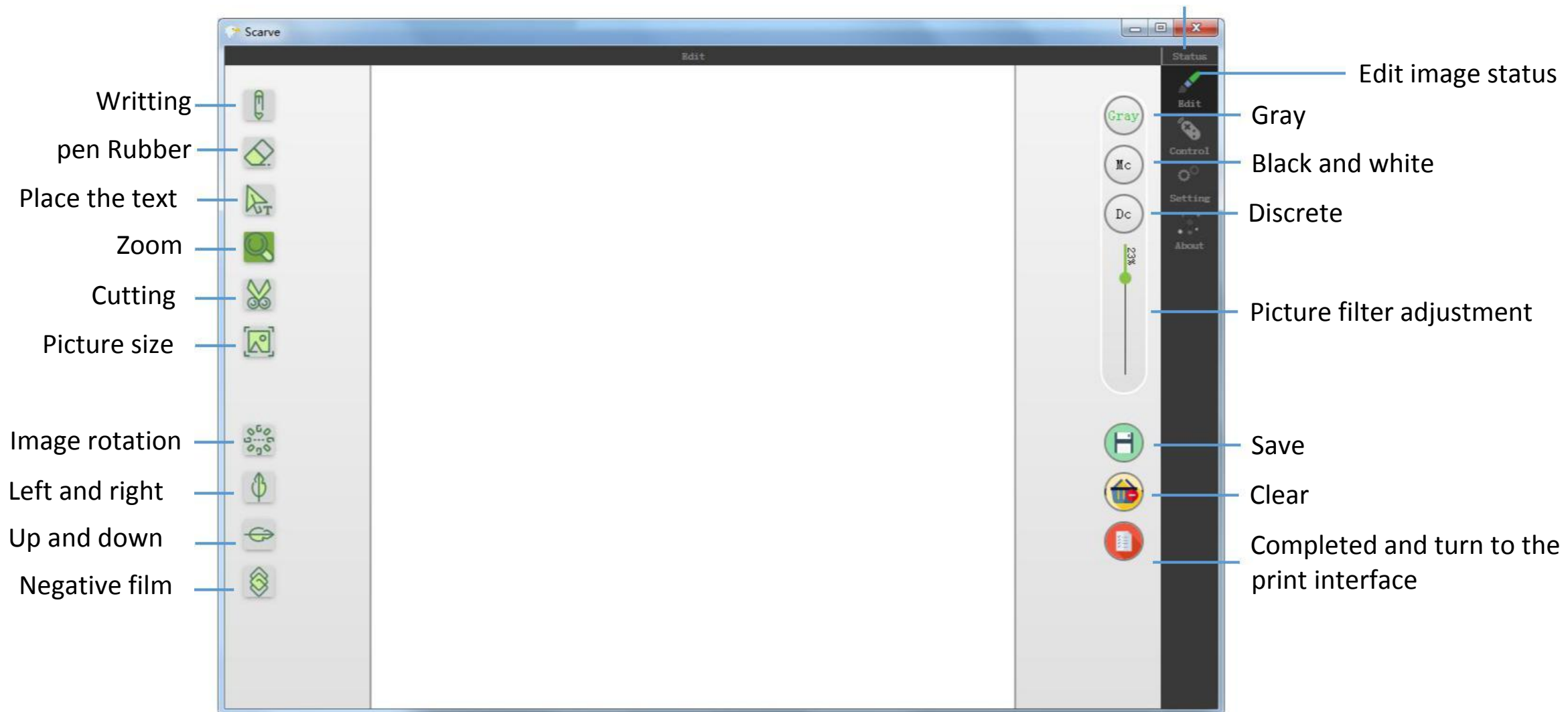
Unzip the software as shown on the left, click Scarve.exe twice to open the software, you can also send Scarve.exe to the desktop.

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Software description

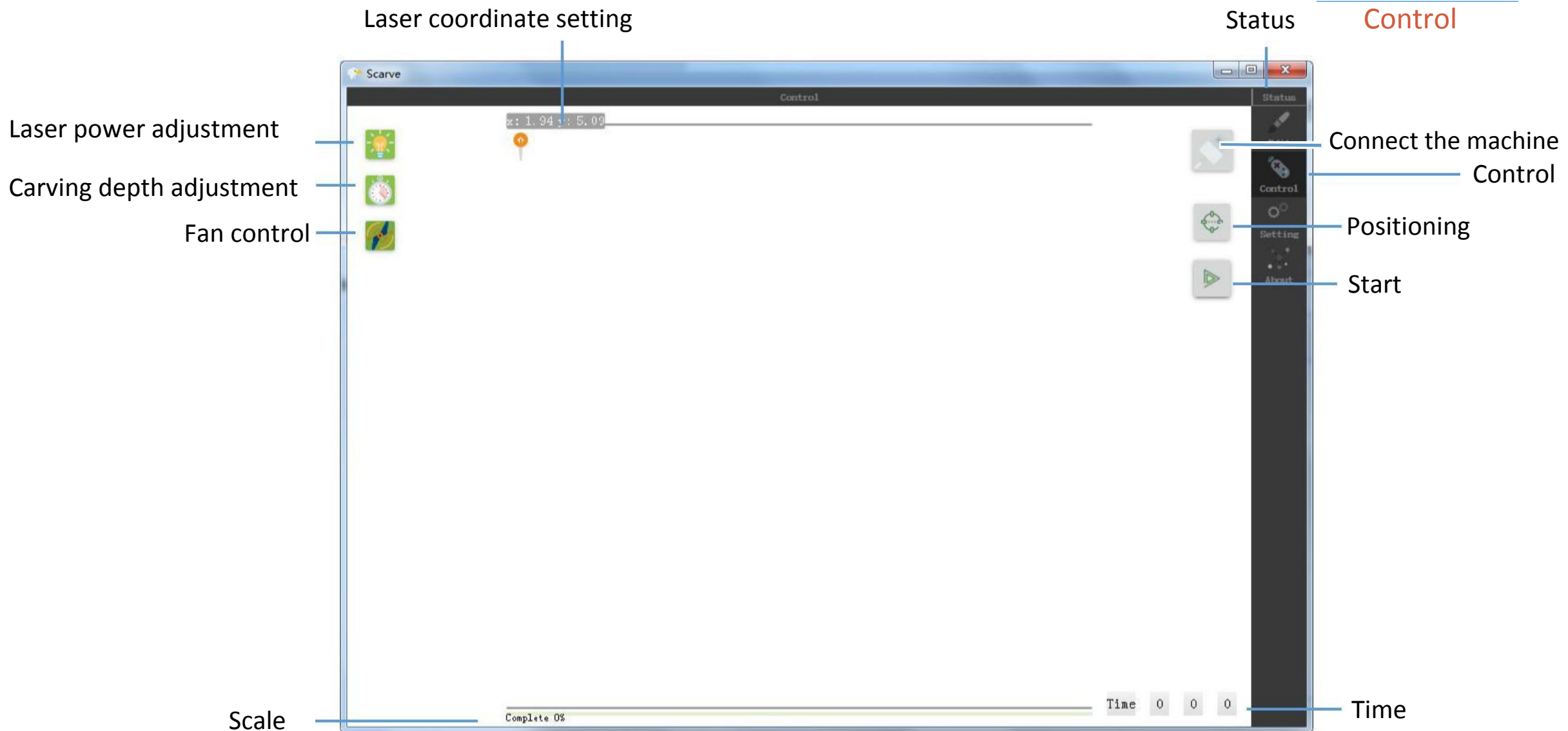
Status

Edit image



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Software description

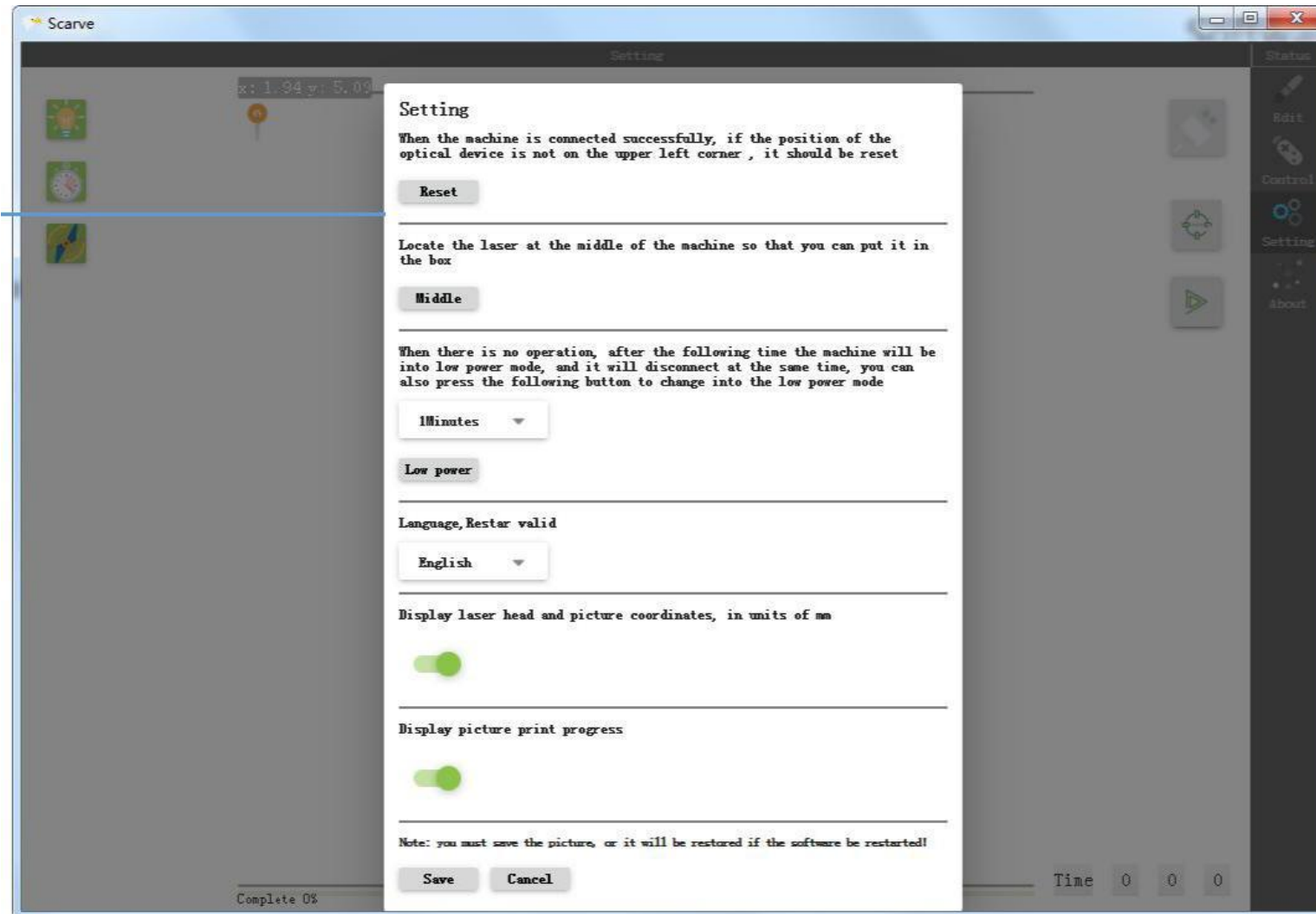


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Software description

Setting

Control setting



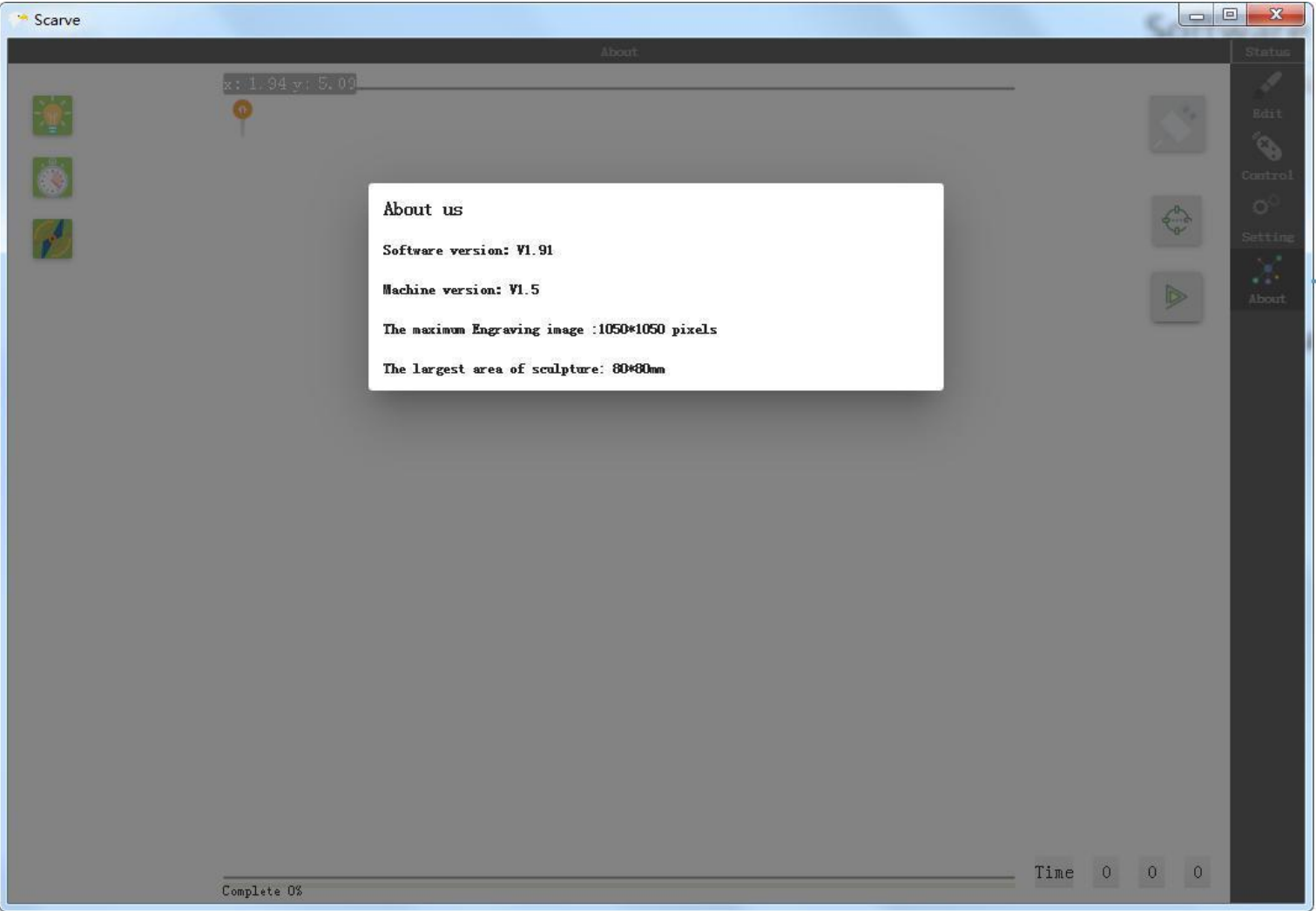
Machine Setting

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Software description

About

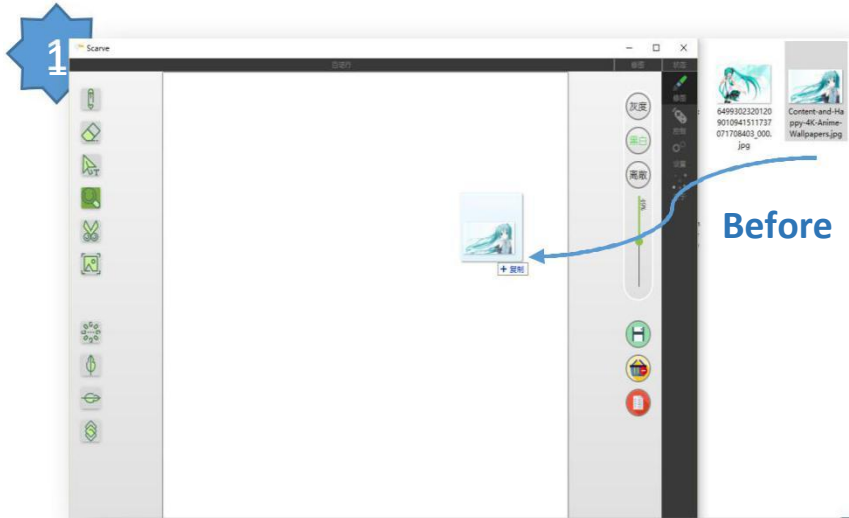


About

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Simply image editing

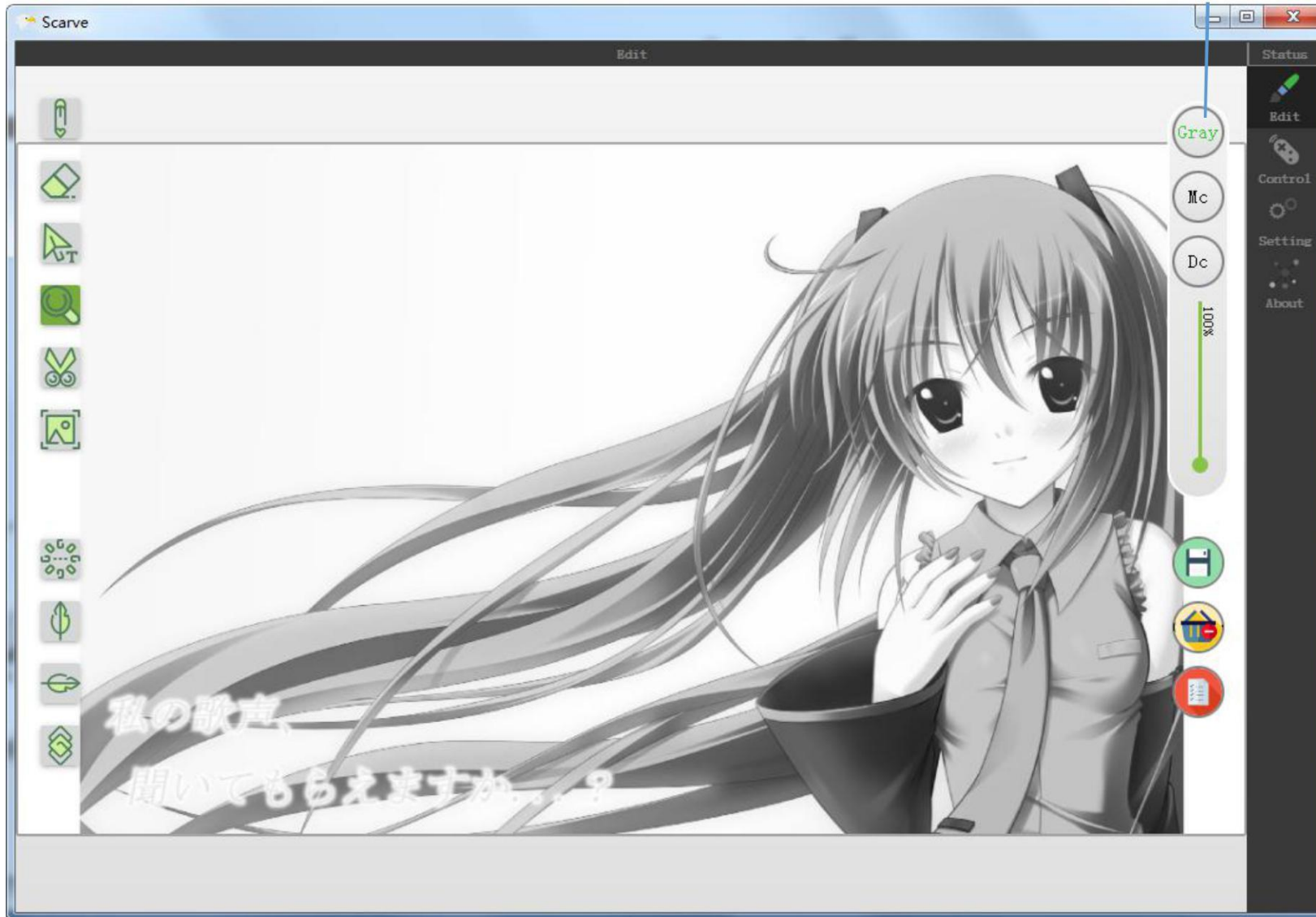
Load the picture



Simply image editing

Image effect

Grayscale effect



Black and white effect



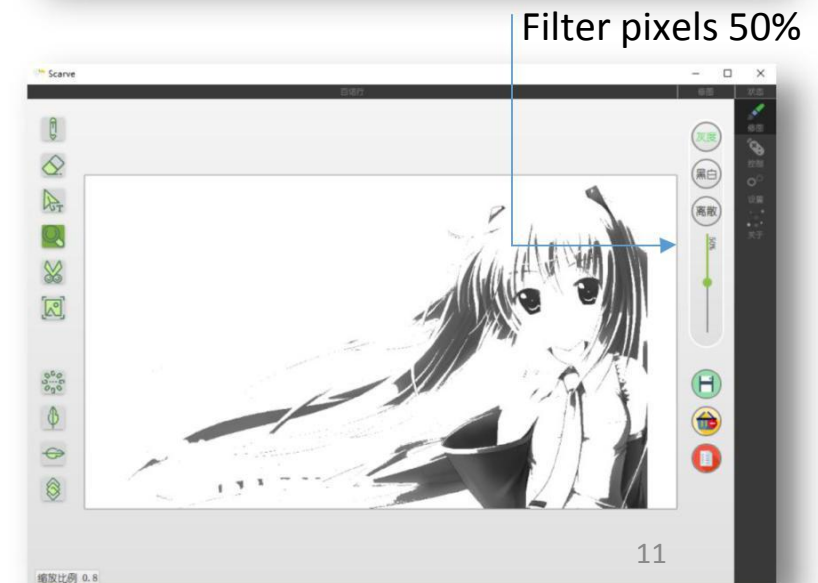
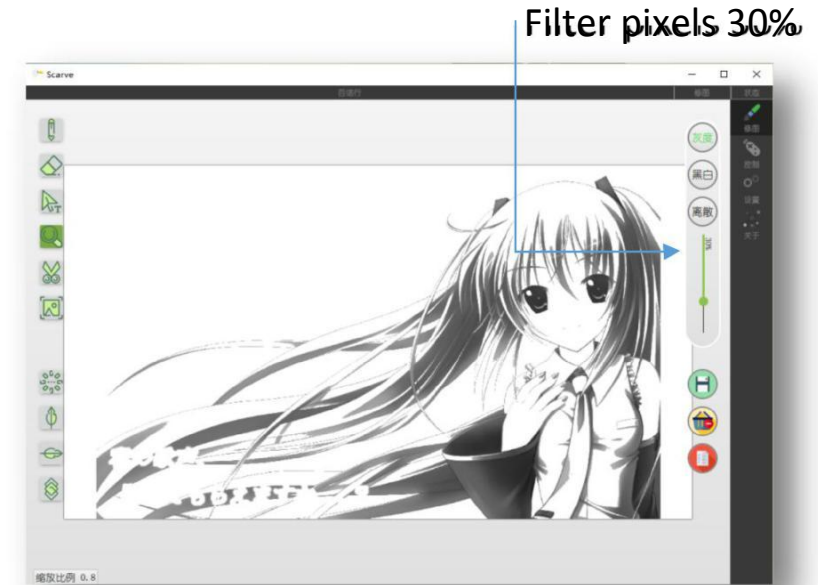
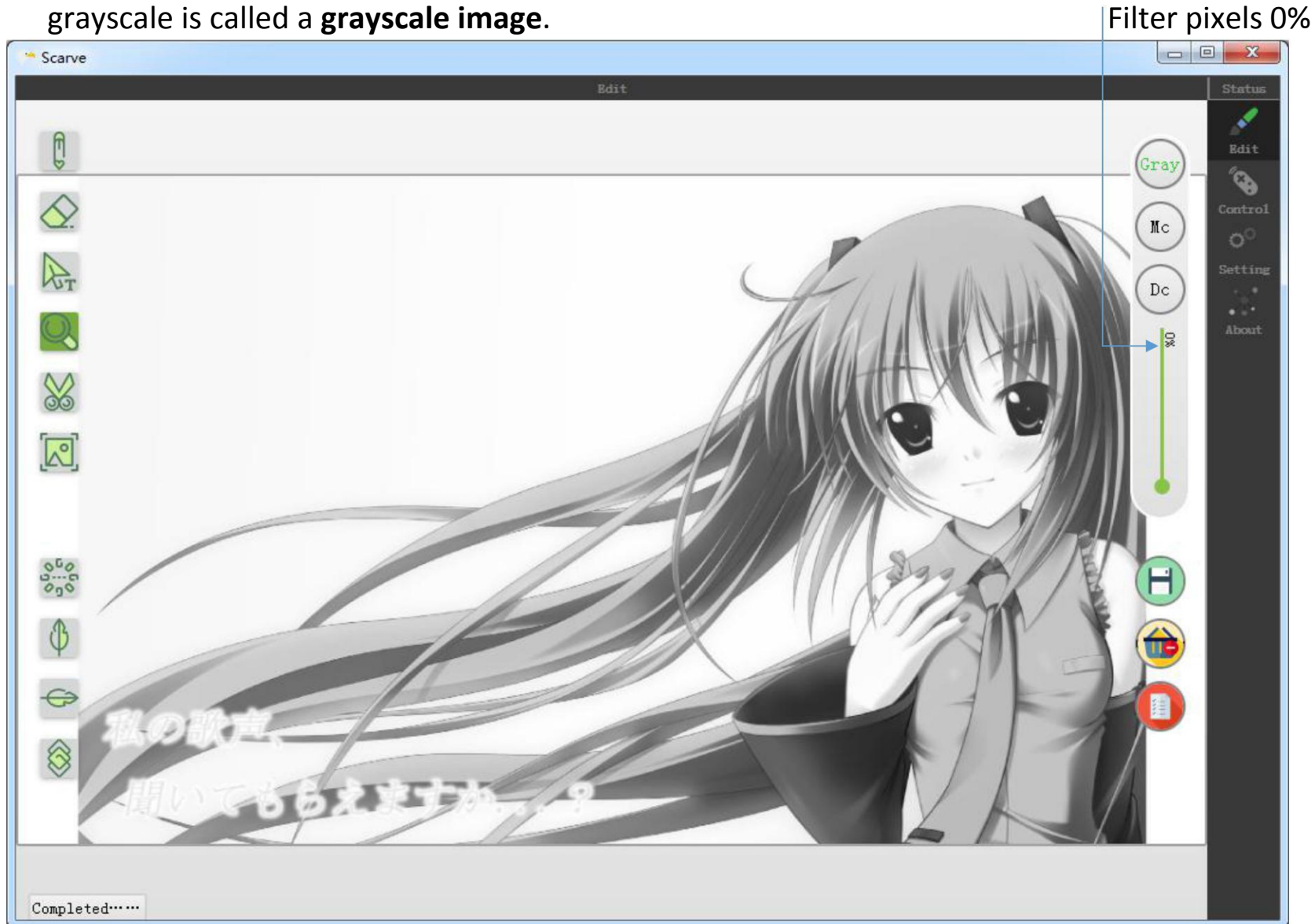
Discrete effect



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

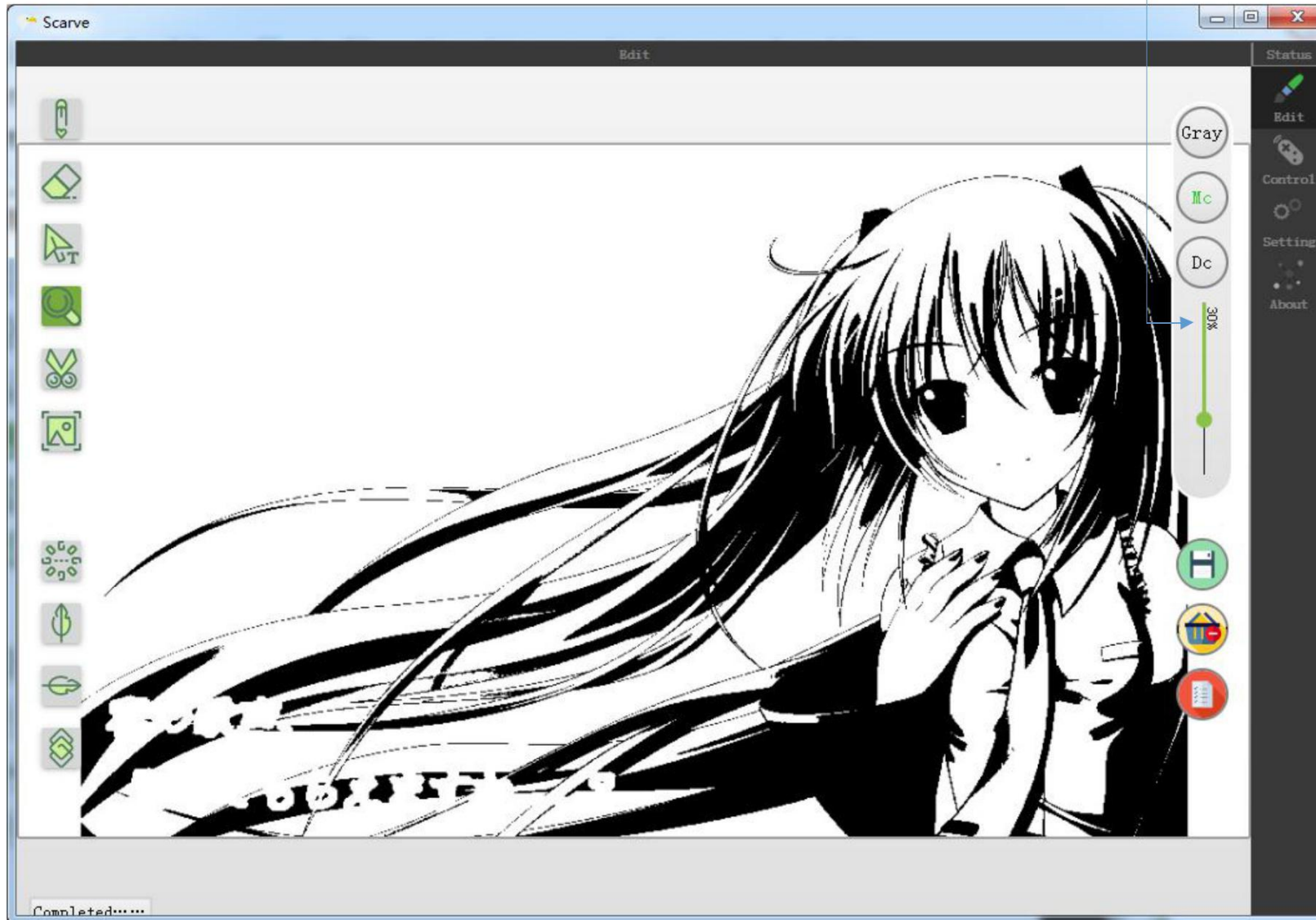
Filter gray pixels



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

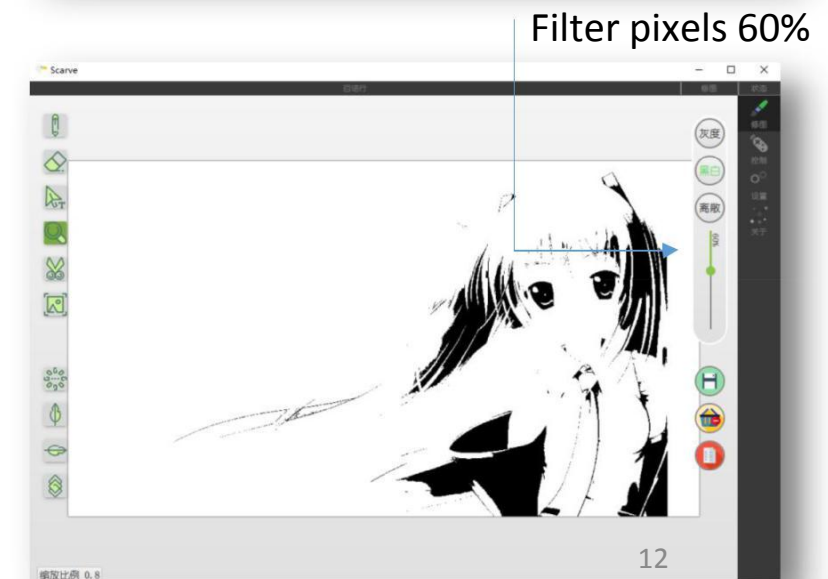
Filter black and white pixels



Filter pixels 30%



Filter pixels 50%

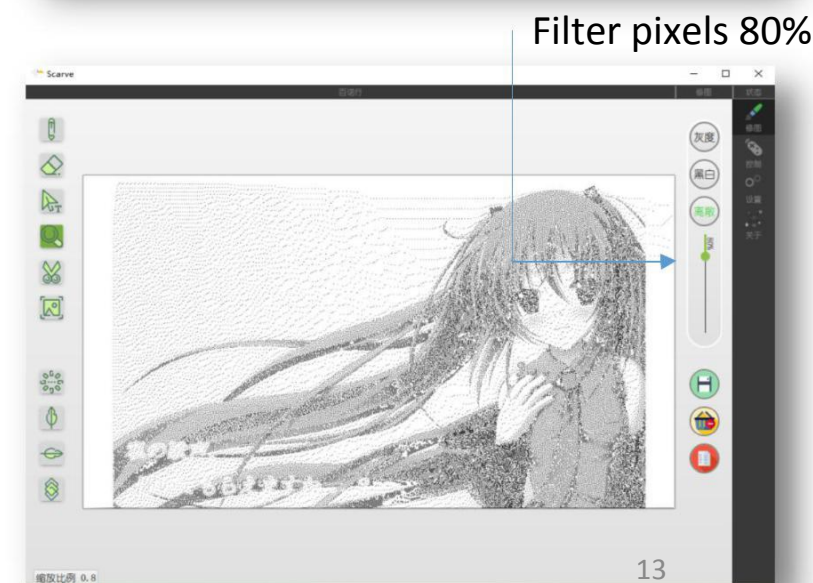
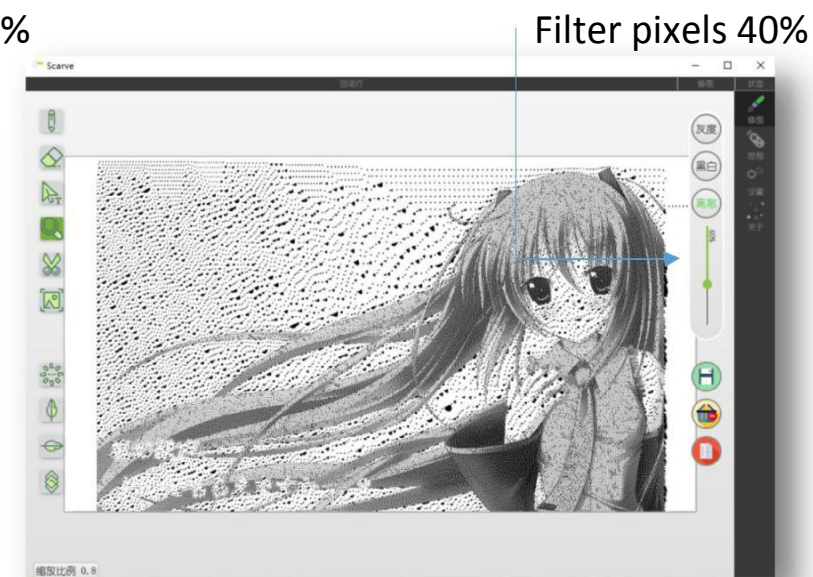
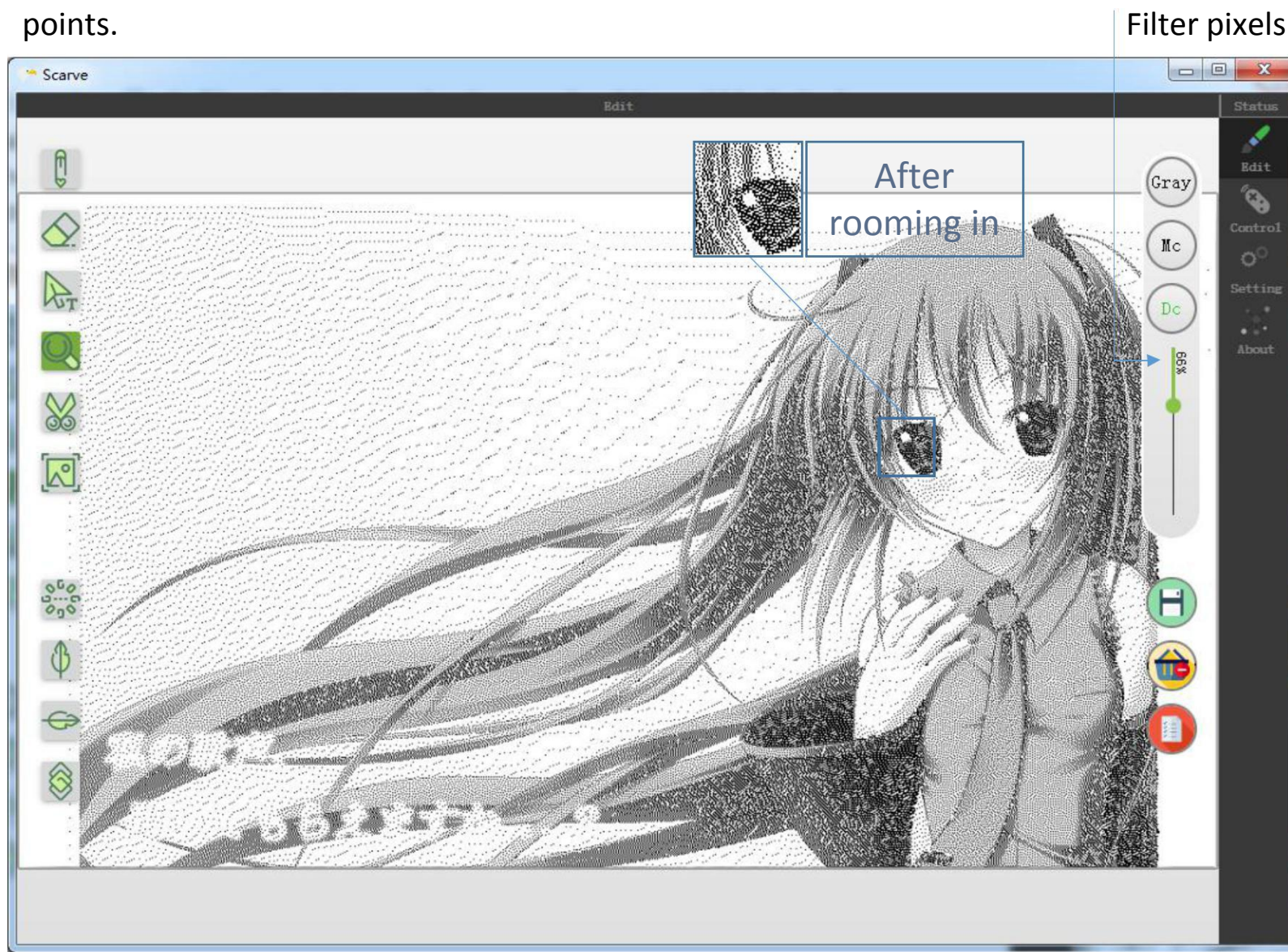


Filter pixels 60%

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

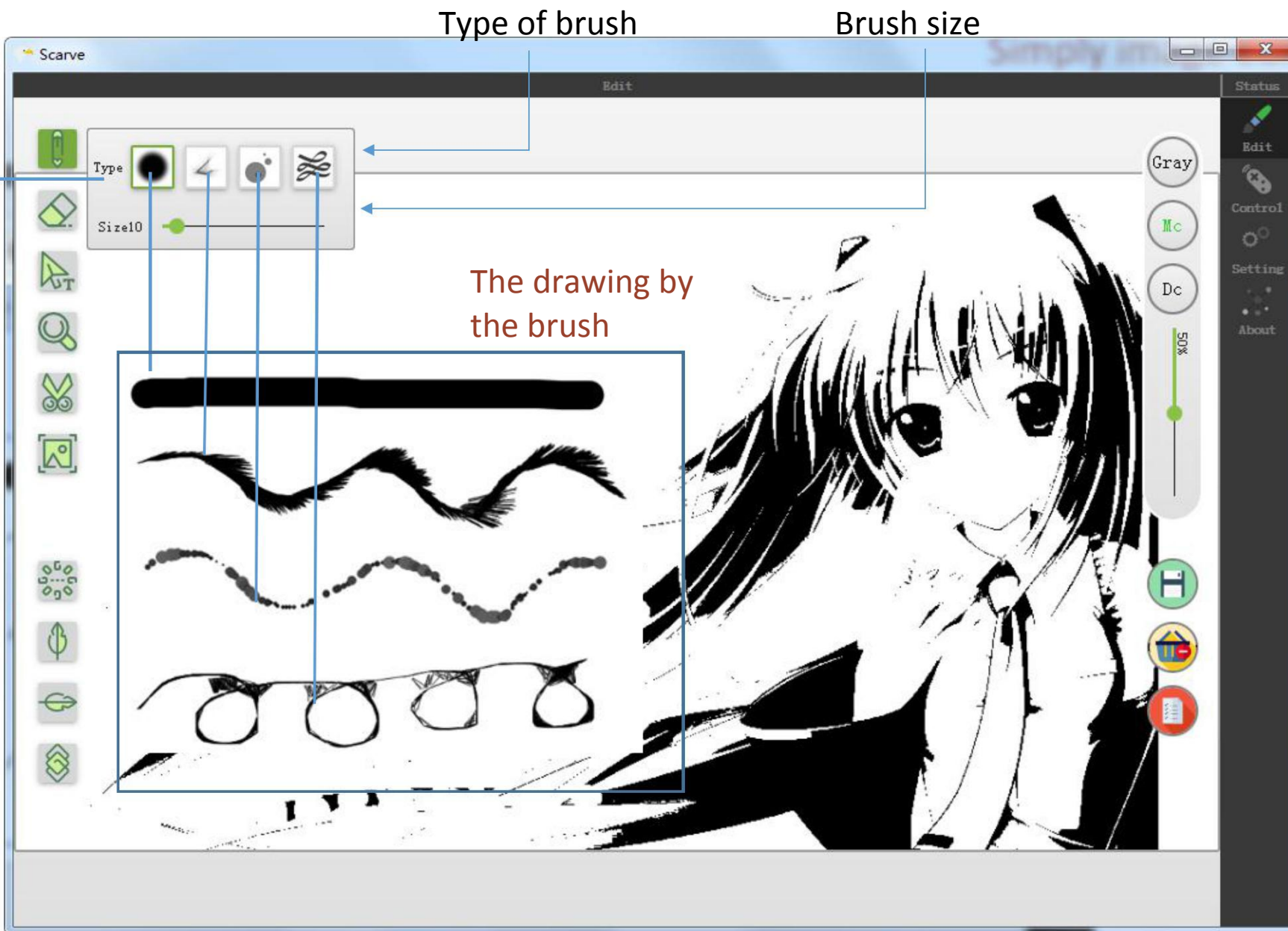


Simply image editing

The use of brush

Submenu:

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



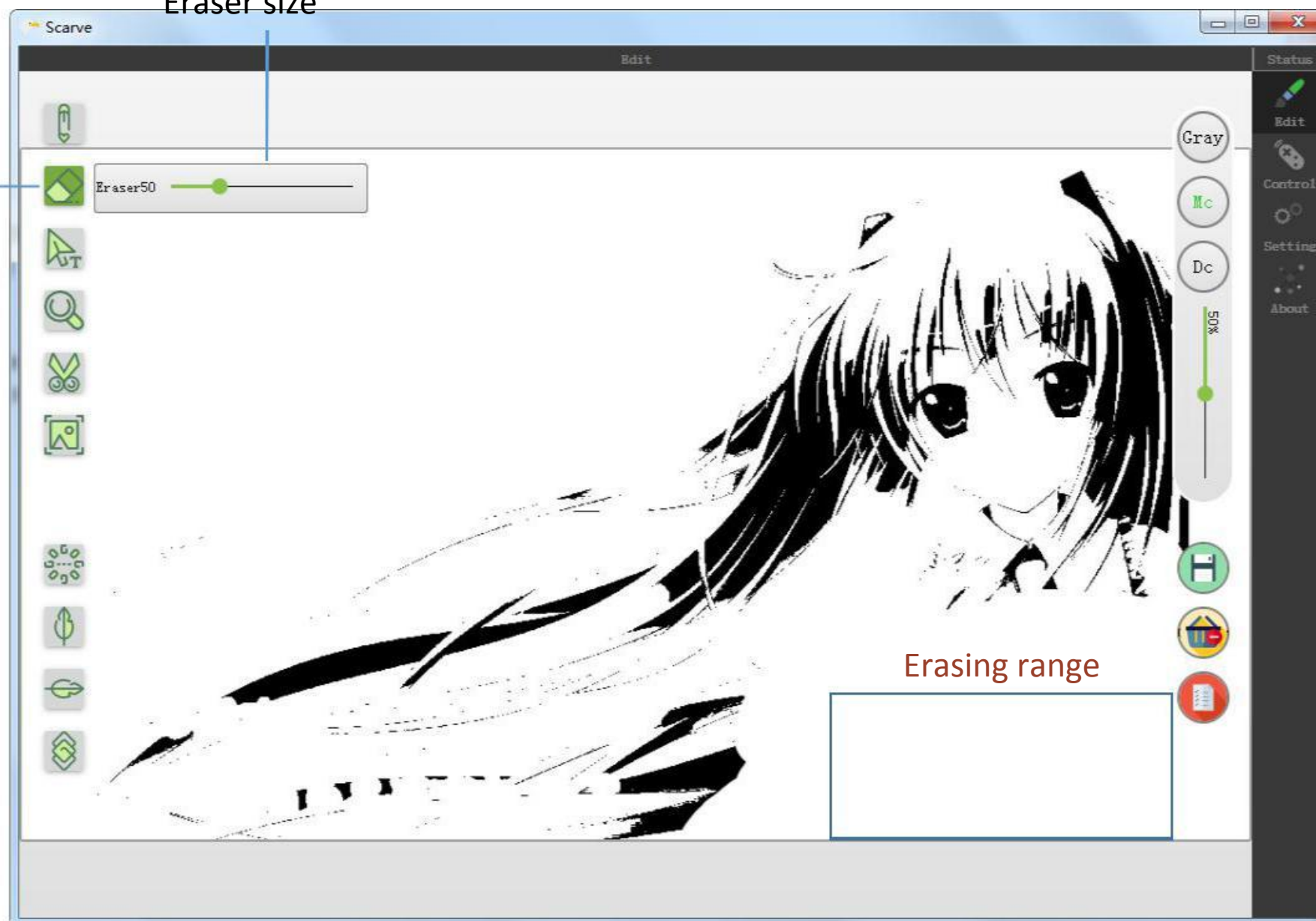
Simply image editing

The use of eraser

Eraser size

Submenu:

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



Simply image editing

Place the text

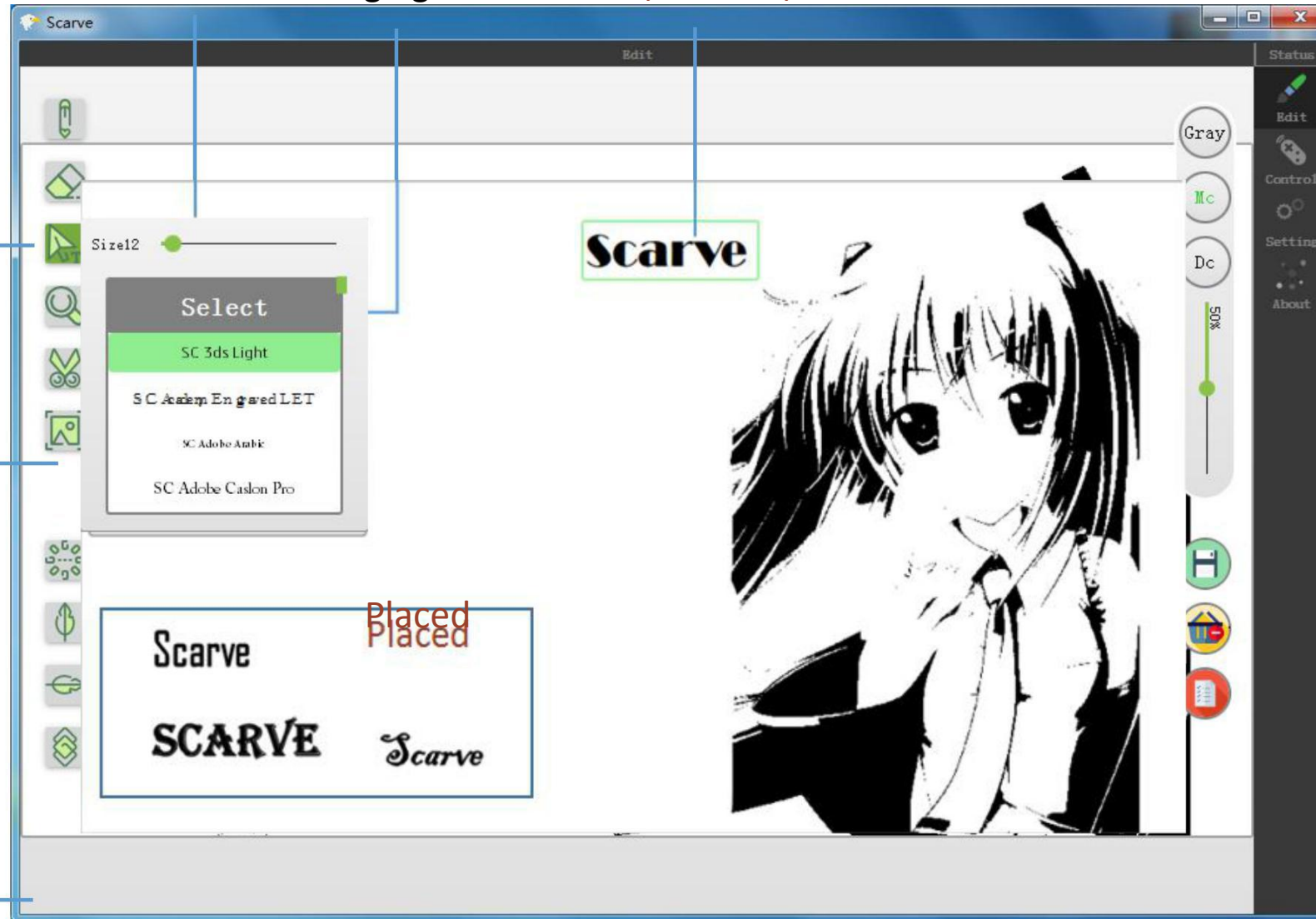
To be placed; use the mouse to drag the green box to choose the position, double-click the picture to complete the placement

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

Font

Text size dragging bar

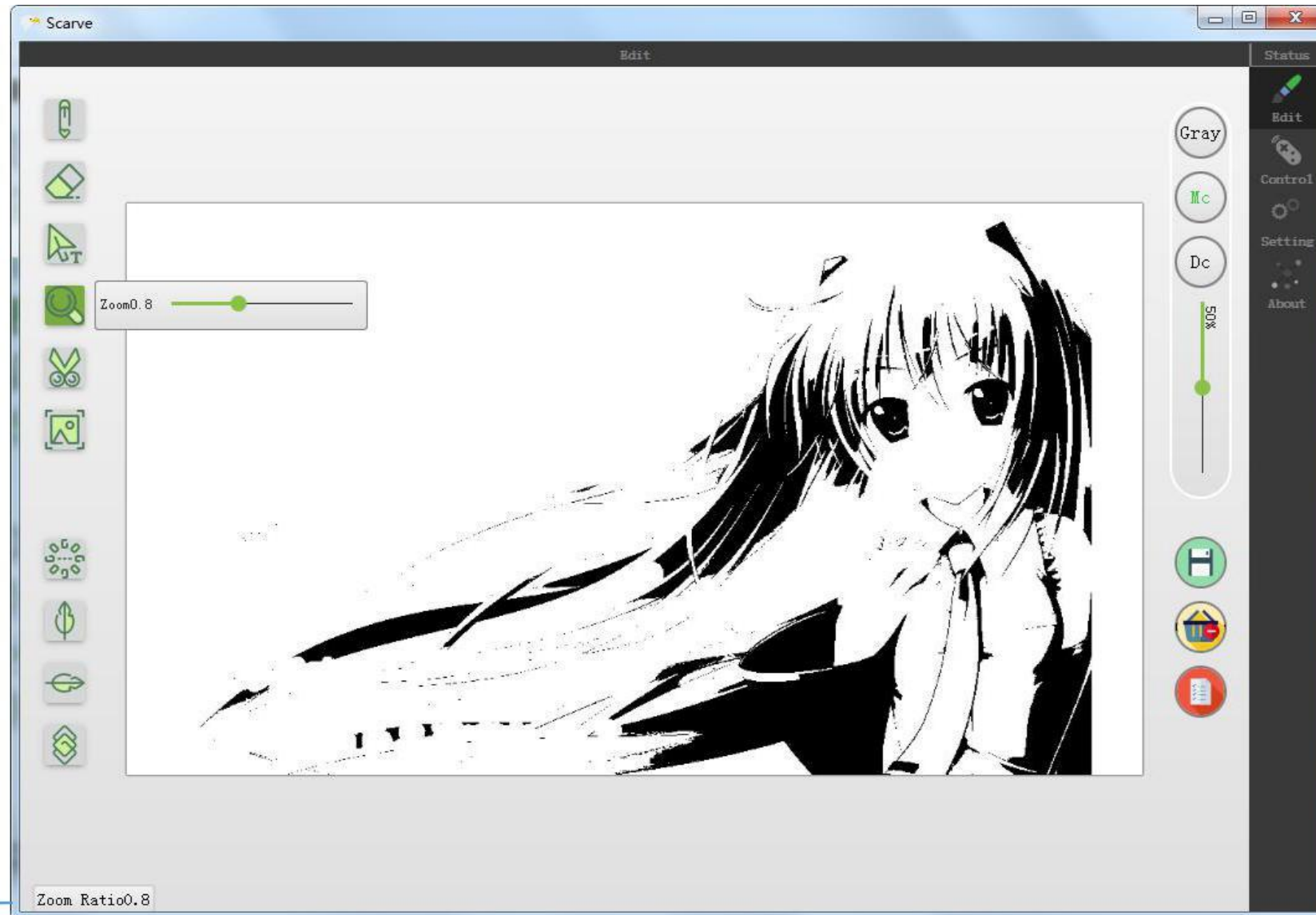
Prompt



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

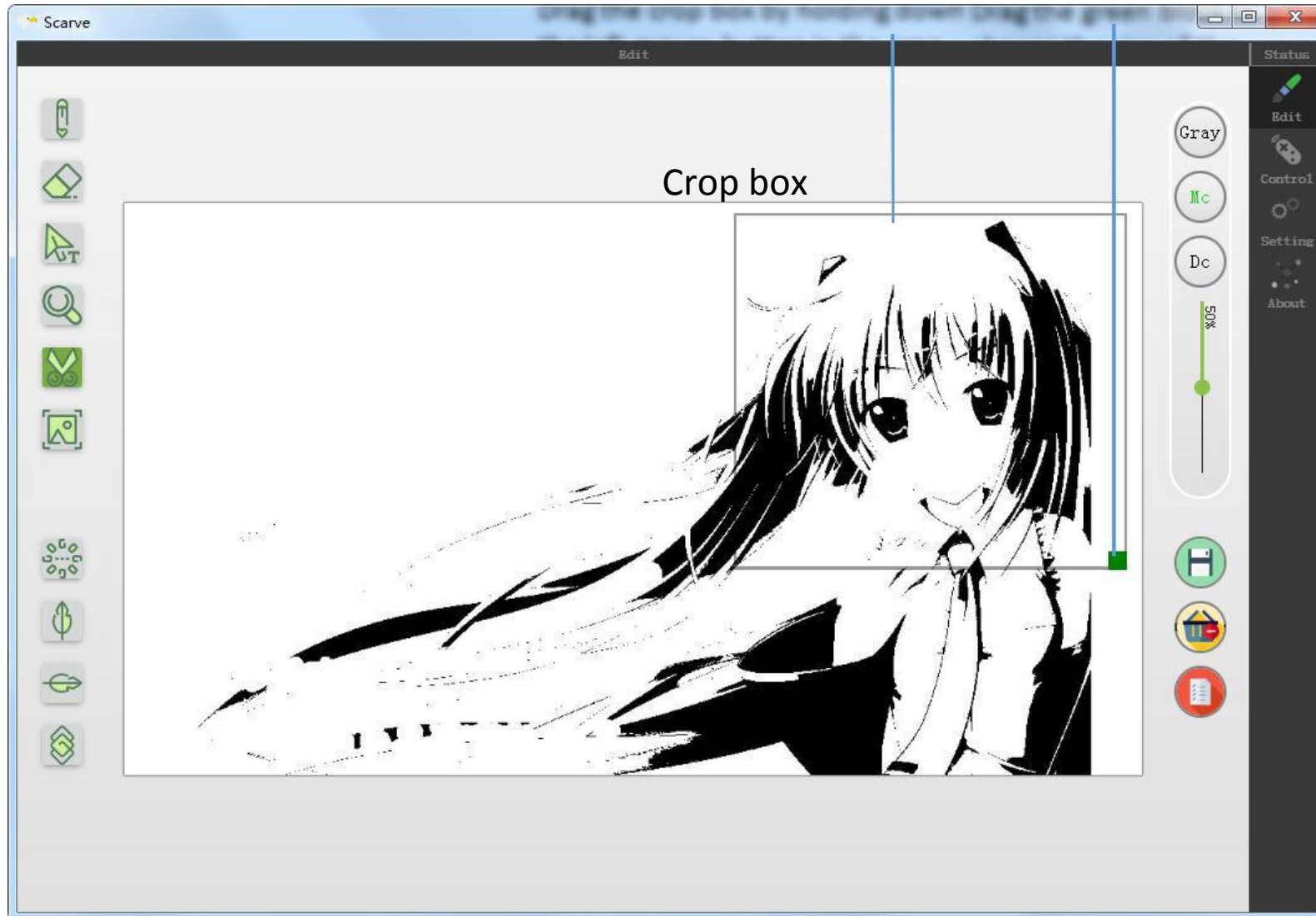


prompt

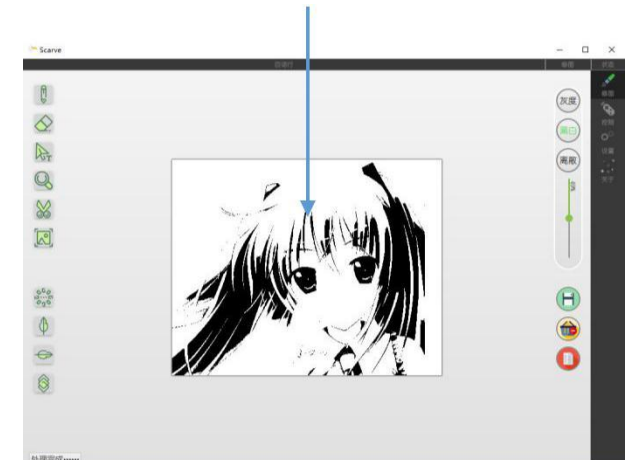
Drag the crop box by holding down the left mouse button in the crop box

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

Simply image editing Crop



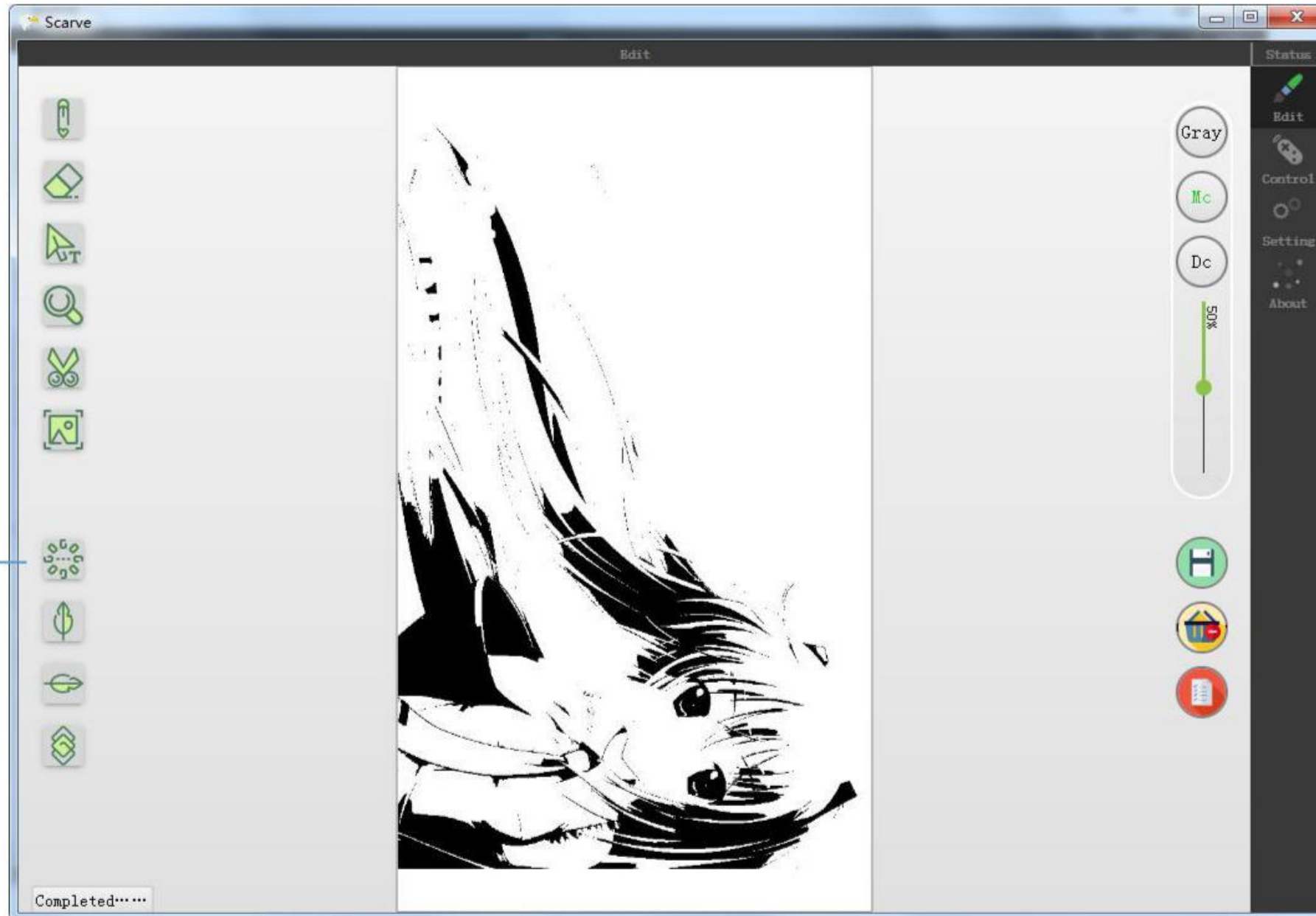
Double-click the inside of the crop box to complete the crop



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Simply image editing

rotate image

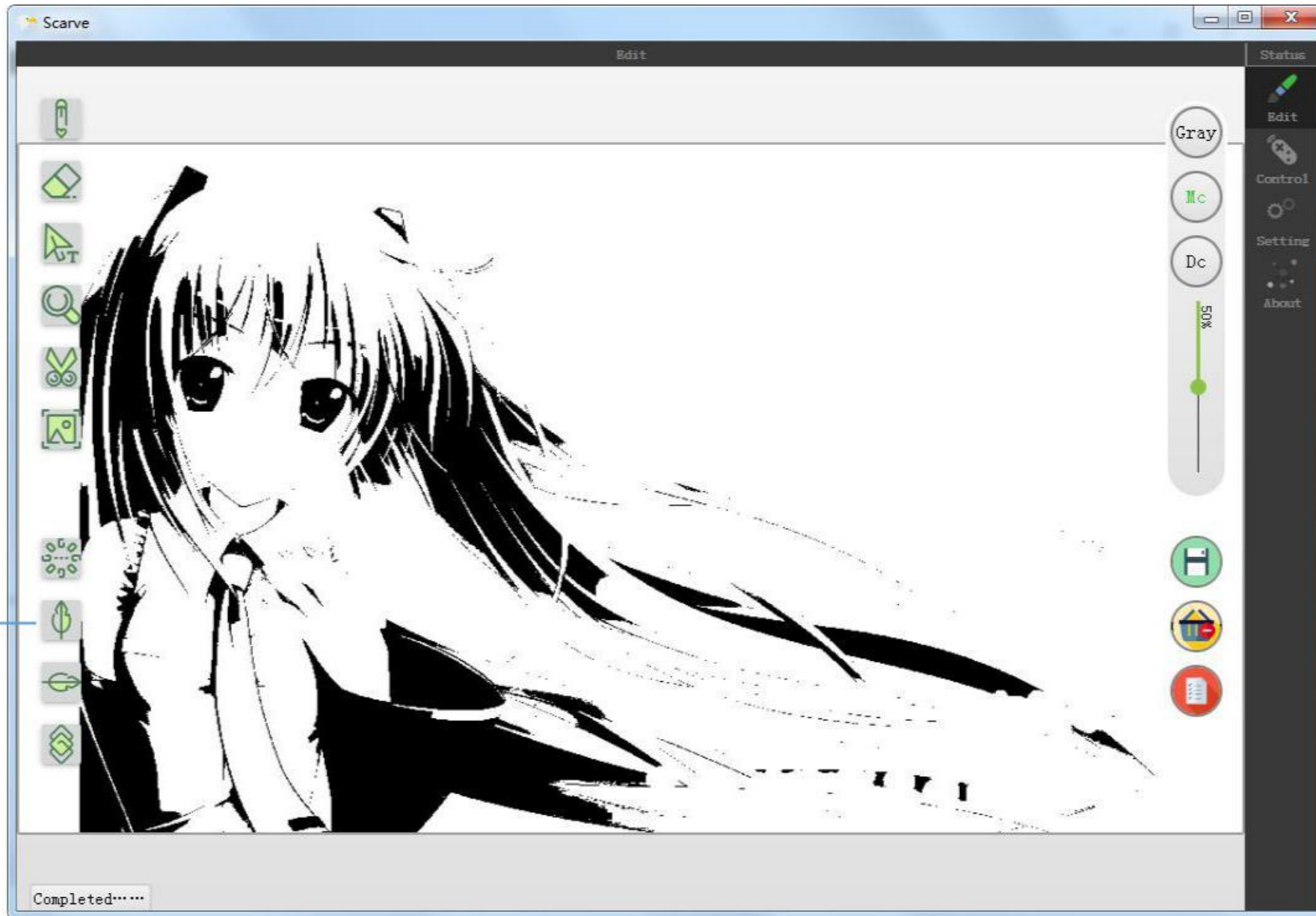


Click once
to rotate
90°

Simply image editing

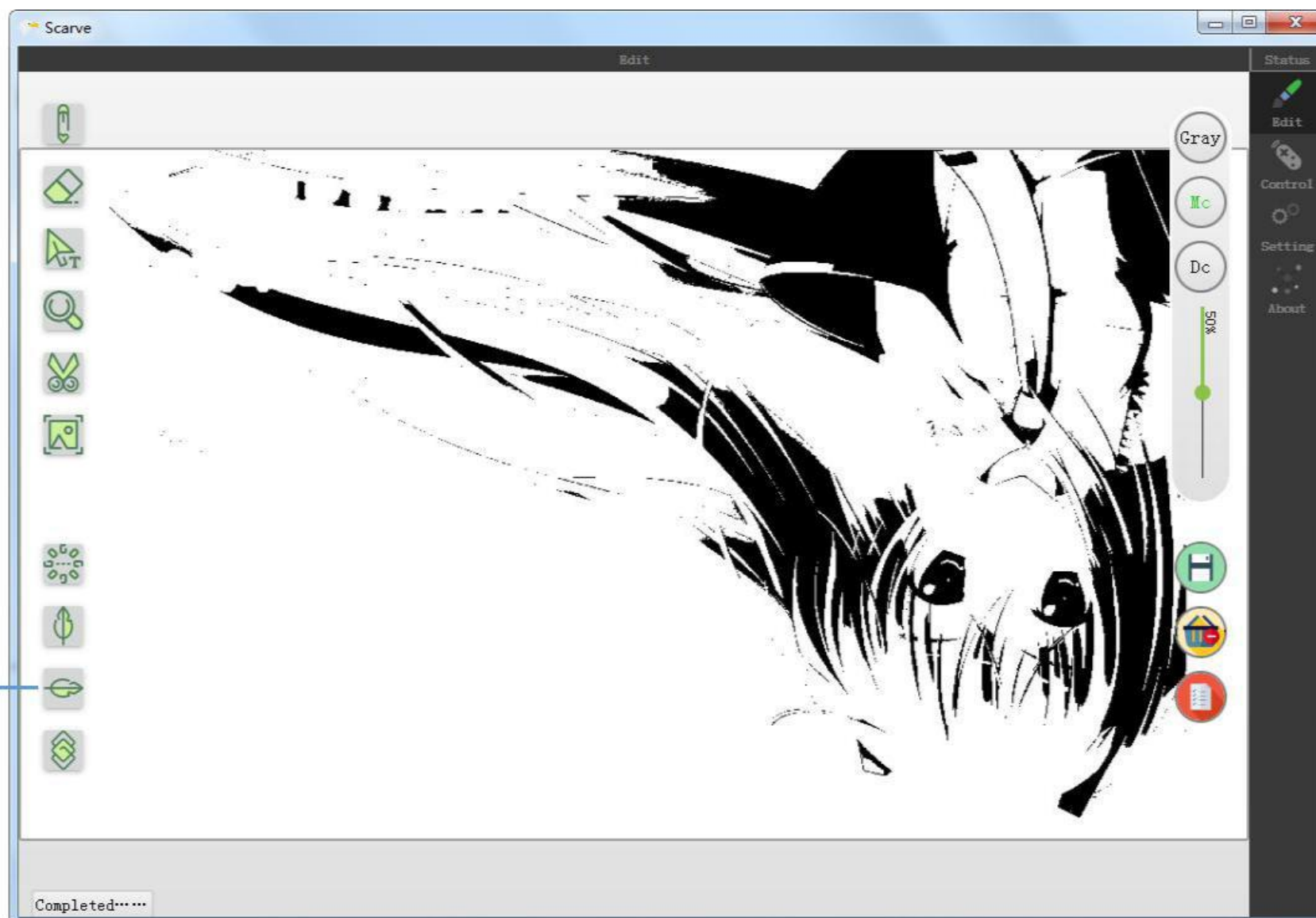
Mirror left-
right

Click to
finish
mirror left-
right



Simply image
editing

Mirror up-
down



Click to
finish
mirror
Up-down

Simply image editing

photographic
film Invert

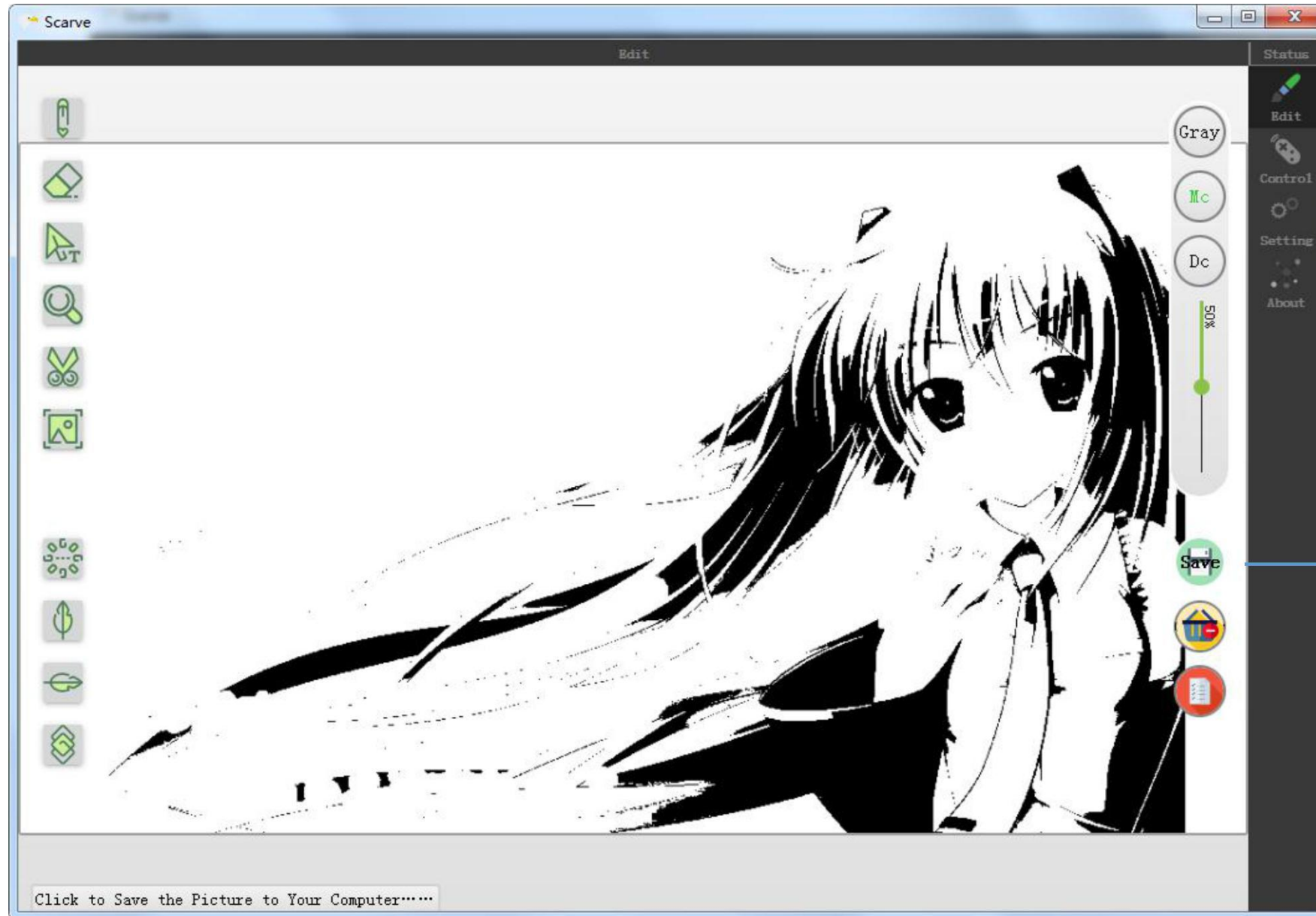
Click to
finish
photograph
ic film
Invert



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Simply image editing

image Saving

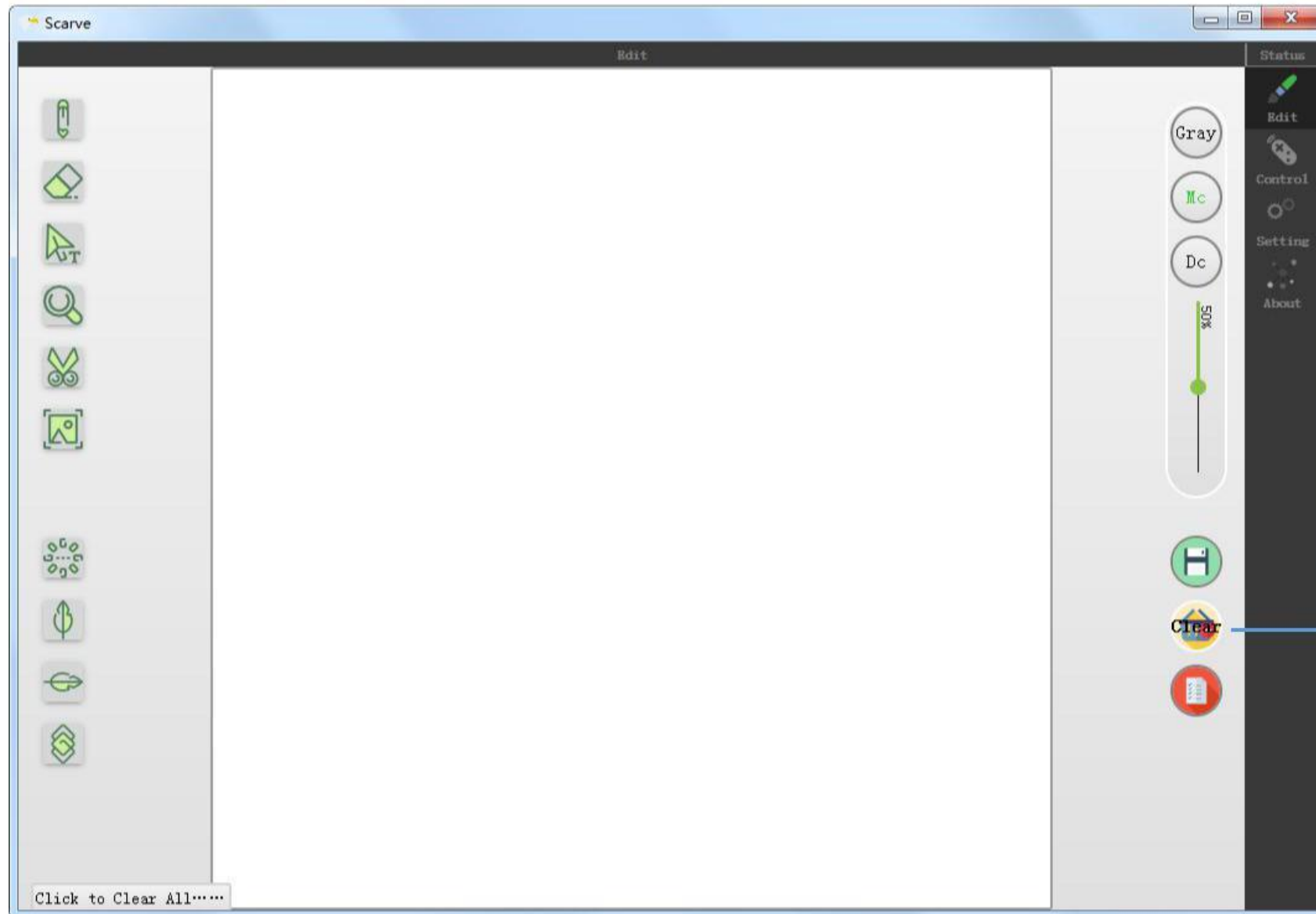


Click to Save
Saved file
name starts
with new

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Simply image editing

Clear
operation

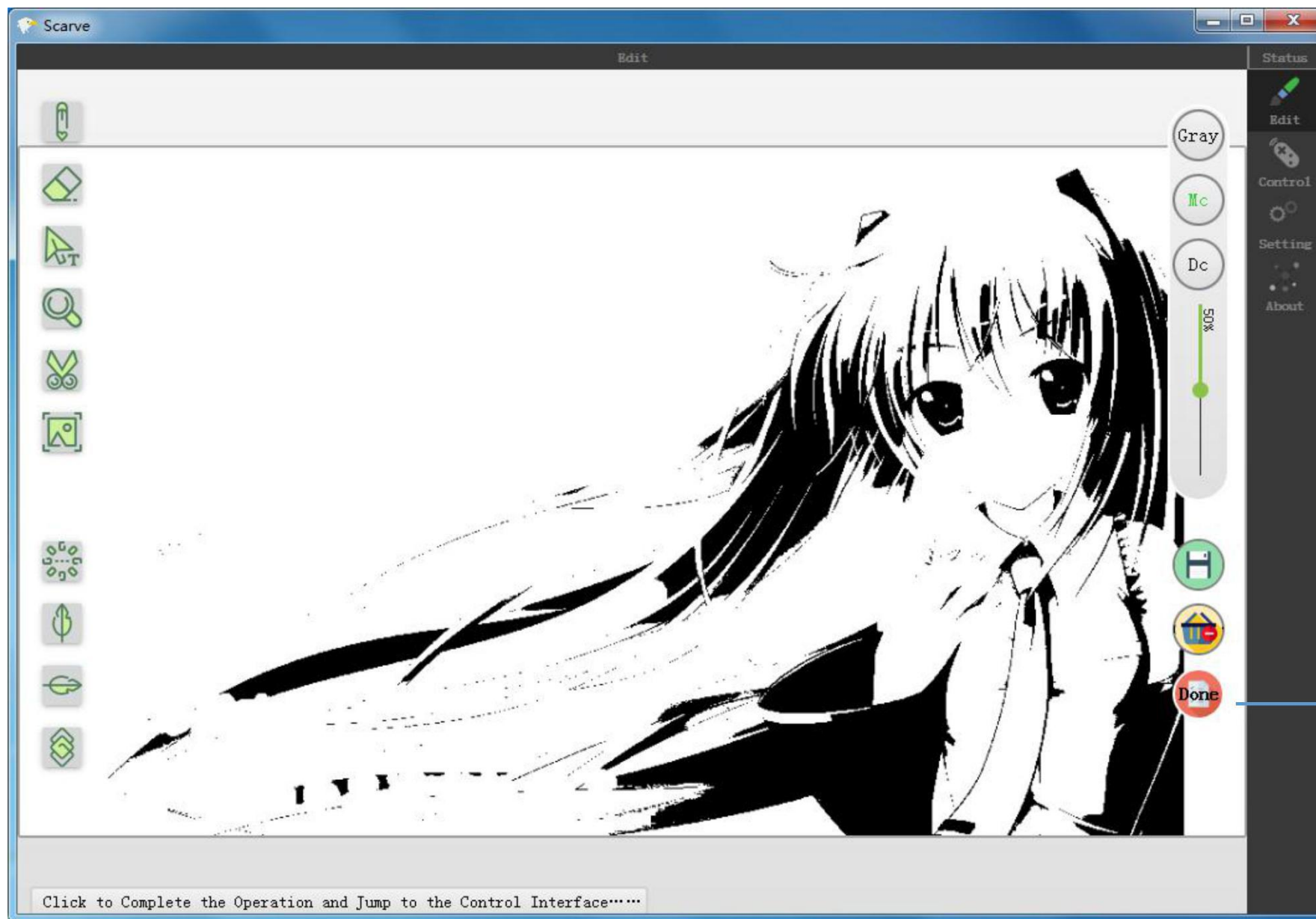


click to clear
operation

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Simply image editing

photographic
film Invert



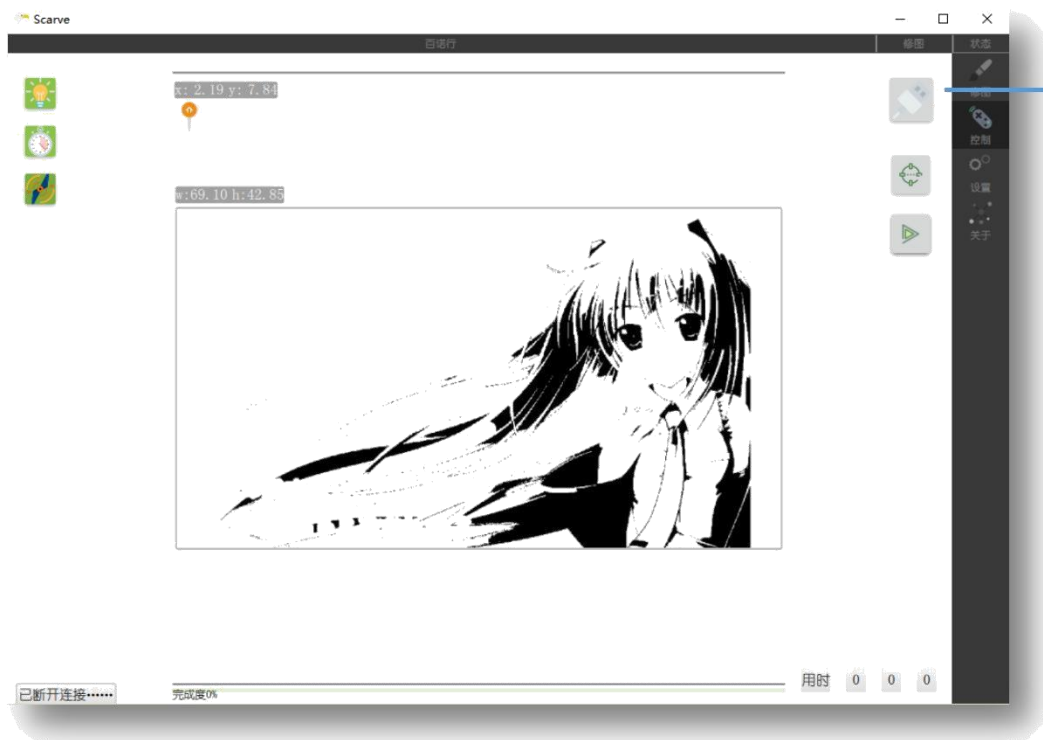
Click to load
image to
control
interface

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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



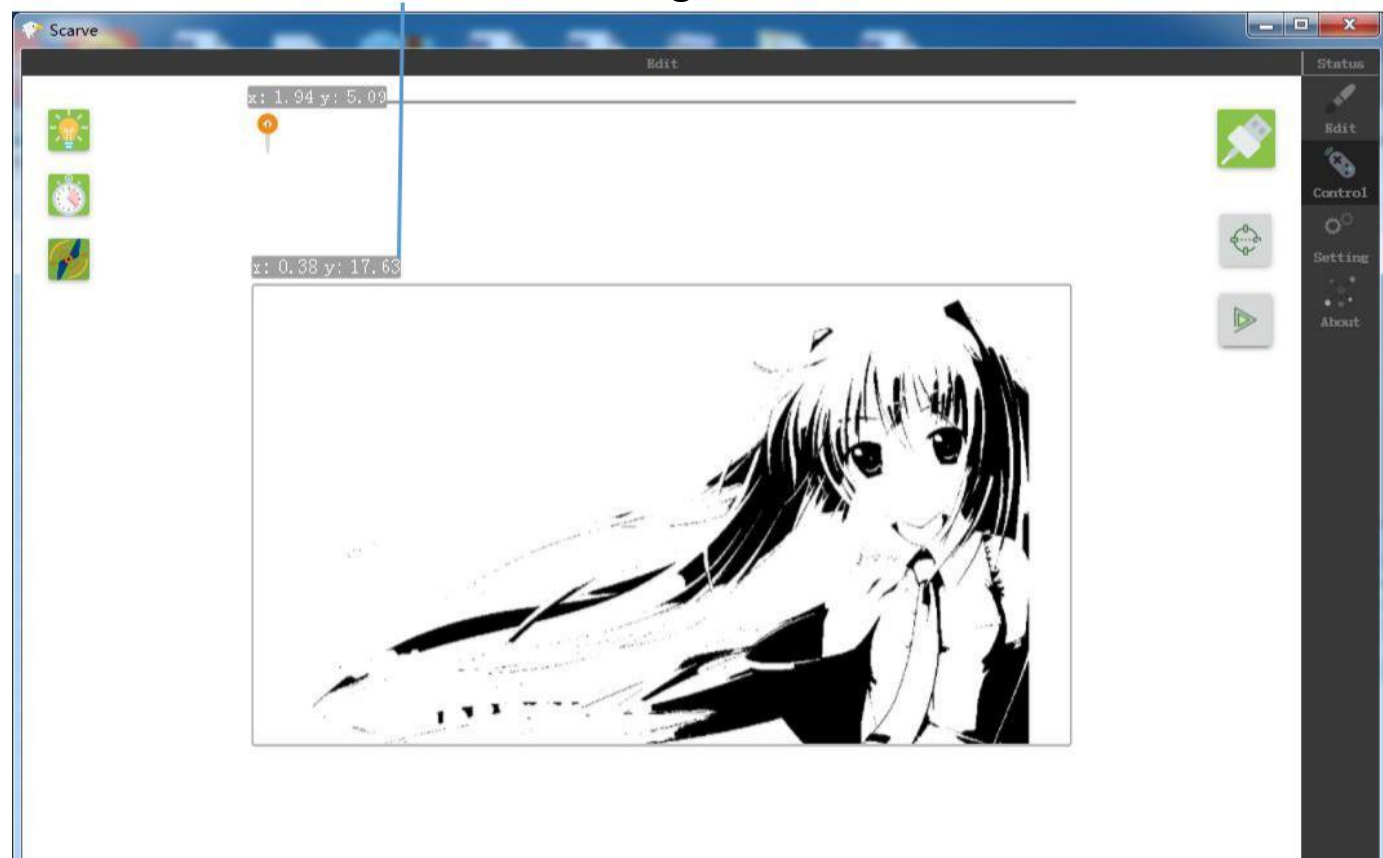
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Engraving
Control

Box
Positionin
g

Picture Width and Height in mm



Click to Box
Positioning

Brightening
indicates Box
Positioning

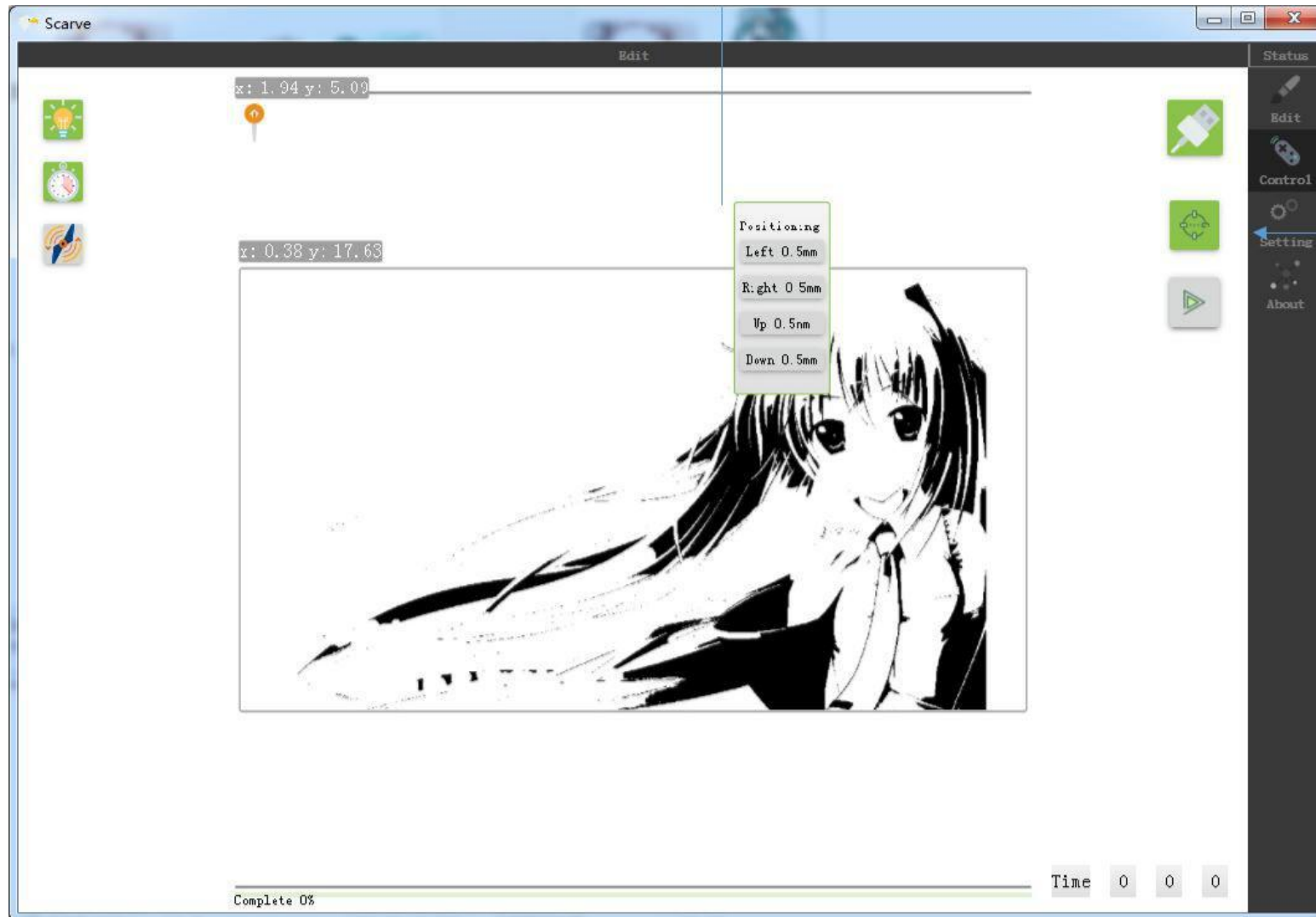


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In the box positioning state,
right-click in the print area
to locate the fine-tuning

Engraving Control
Box Positioning

Box
positioning
when brightened



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Engraving Control

Start Engraving

The Current Engraving
Position Bar



Start / Pause Button

Stop Button: Click to stop
Engraving and Return to the
Original Engraving Status

Engraving
Progress

Engraving Time-
Consuming:Hour,Minutes,Sec
ond

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 Control

Engraving Depth Adjustment

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



Engraving Control

Engraving Depth Adjustment

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.



Engraving Control

Engraving effect

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



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



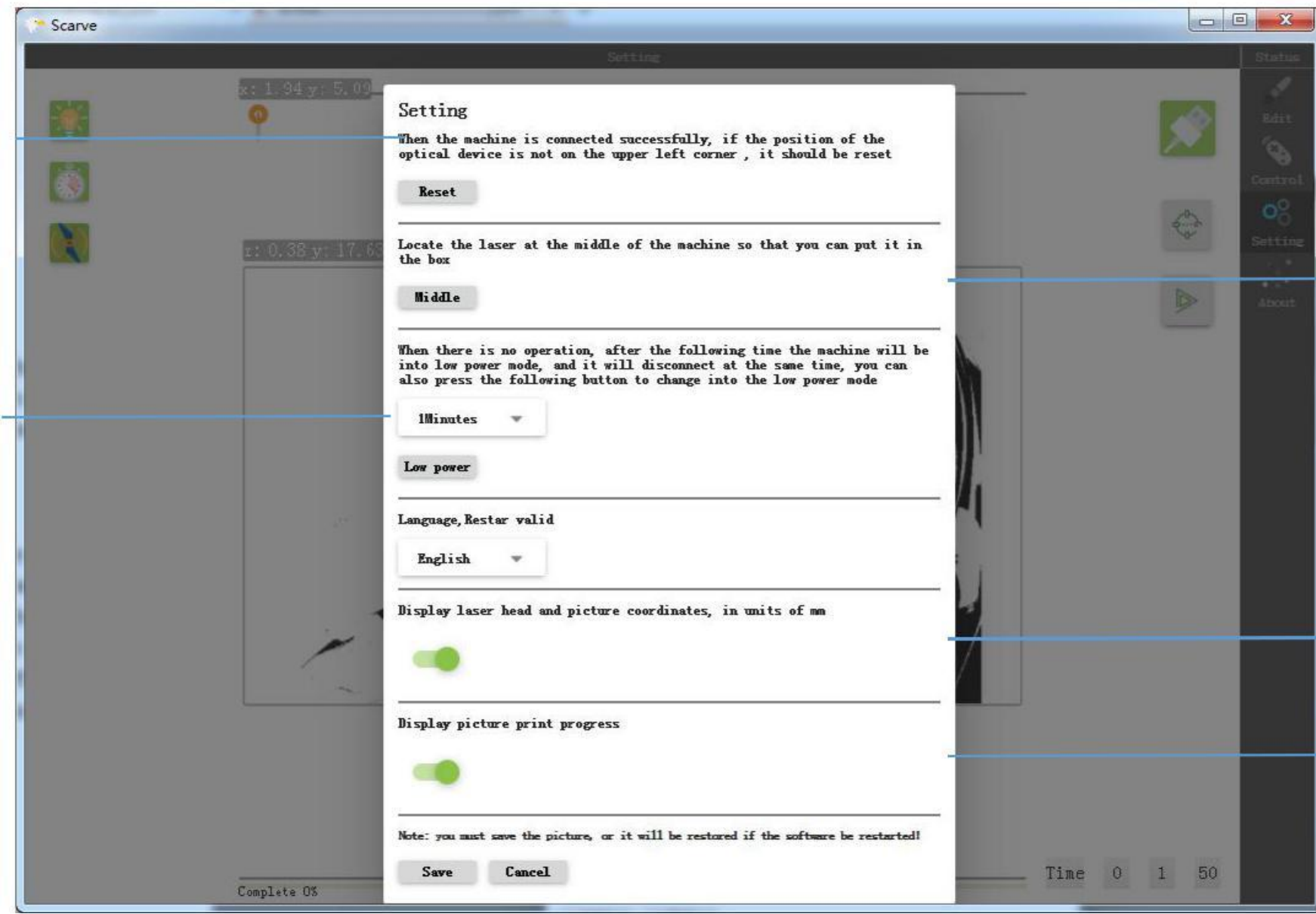
Black and White Mode Effect:
Engraving Depth 25%
Engraving Power 100%



Setting

Click the Laser to
Return to the Origin
Position

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



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

Indicate the Relevant
Coordinates of the
Engraving

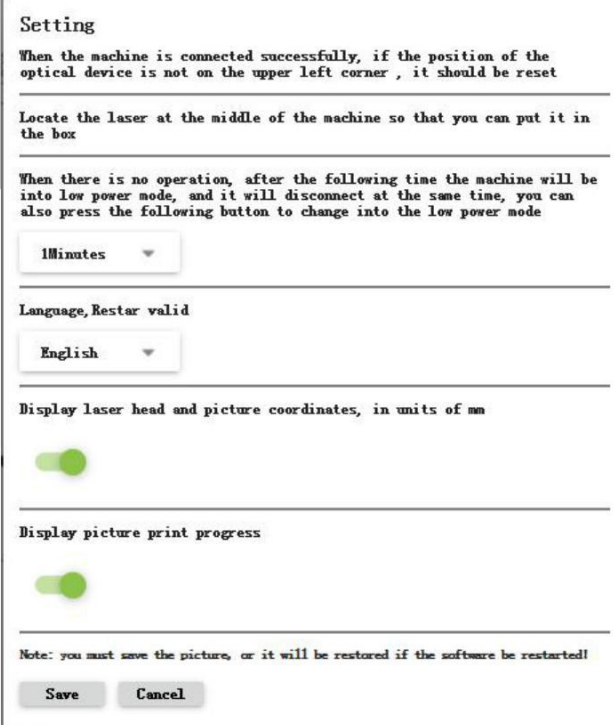
Display the progress

Pixel Filtering:

If the picture needs to be filtered, it is prefer to use the filter pixel function, the 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 hHide
Some other Settings, as shown on the Right
Picture



The screenshot shows a settings window with the following sections:

- Setting**
When the machine is connected successfully, if the position of the optical device is not on the upper left corner , it should be reset
- Locate the laser at the middle of the machine so that you can put it in the box
- When there is no operation, after the following time the machine will be into low power mode, and it will disconnect at the same time, you can also press the following button to change into the low power mode
1Minutes
- Language, Restar valid
English
- Display laser head and picture coordinates, in units of mm
☒
- Display picture print progress
☒
- Note: you must save the picture, or it will be restored if the software be restarted!
- Save Cancel

SHARE WITH OTHERS.

- Software download address: www.Tiaportal.weebly.com.com/scarve.html
- Solutions of Errors in Scarve software: www.Tiaportal.weebly.com/scarve.html
 - Manual in Chinese can be download from: www.tiaportal.weebly.com