

Engraving Color Image Data

RSD-SUNMAX Series
SUNMAX LASER

About this document: This is an English translation of the Japanese original prepared by SUNMAX LASER for reference purposes. In case of any discrepancy, the Japanese original shall prevail. Specifications are subject to change without notice.

How to Engrave Color Image Data

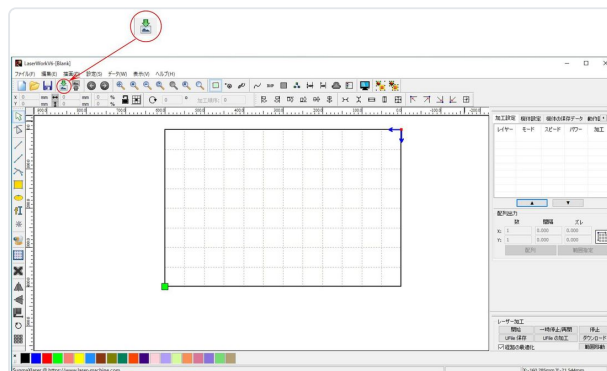
This document explains how to engrave color image data using the SUNMAX series.

LaserWorkV6 is used in this document. Other software with similar functions can also be used.

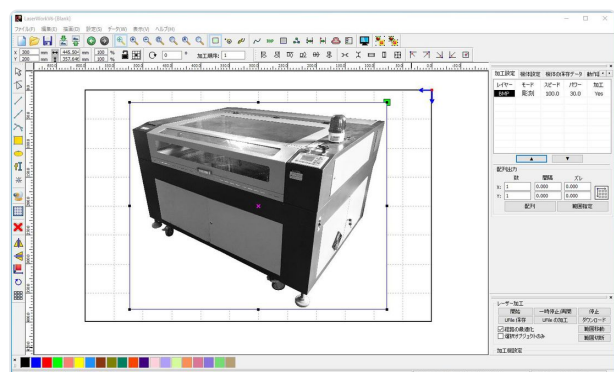
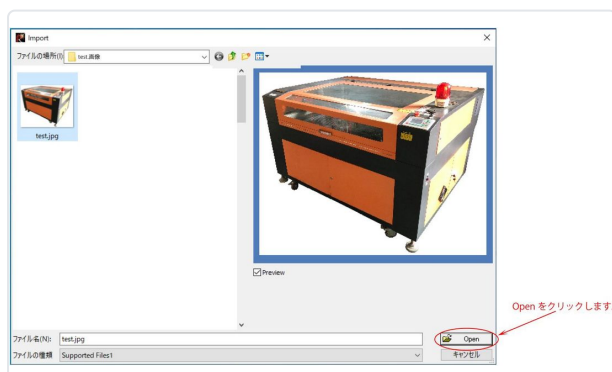
Note: For the engraving settings, the appropriate values must be determined through trial runs, depending on the material, the required processing quality, the data content, and the laser machine model.

1. Start LaserWorkV6 and click "Import" on the system toolbar.

The file open dialog appears. Select the image data and click Open.



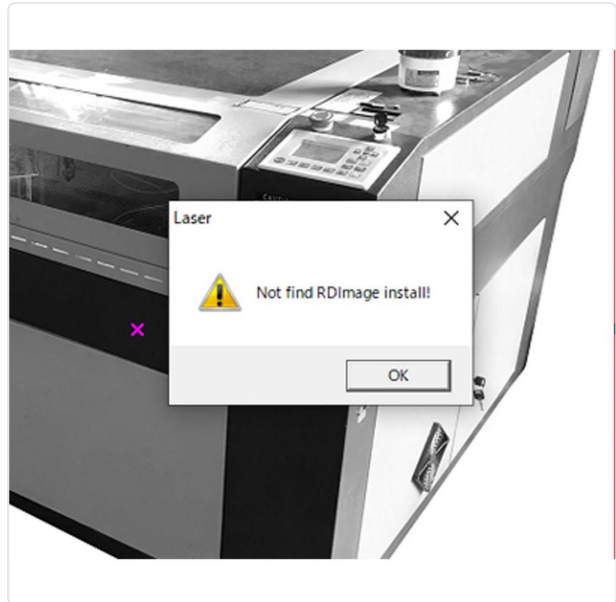
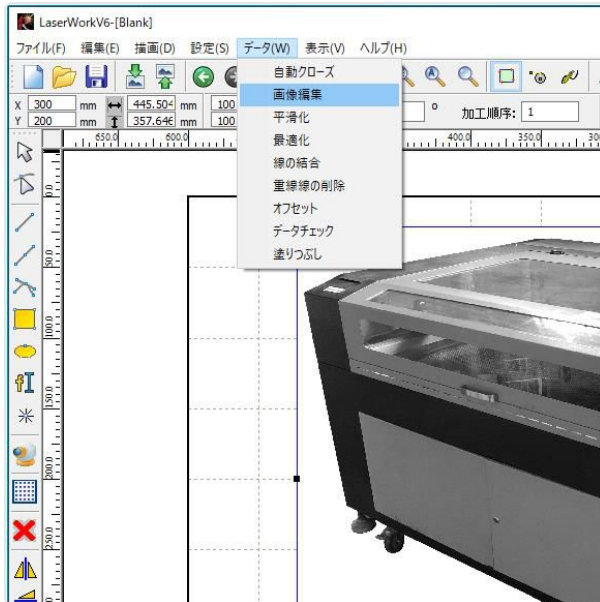
LaserWorkV6 opens the image file. The image data is converted to grayscale at the moment it is imported into LaserWorkV6.



2. Select the imported image, open "Data" on the menu bar, and click "Image Edit."

Depending on the image data, a warning dialog reading "Not find RDImage install!" may appear.

Normally, select "OK."



The "Image Edit" dialog appears, where you can edit the image data into a state that can be processed.

3. Select the output resolution check box, set "Resolution" to 1000, and click the Apply button.



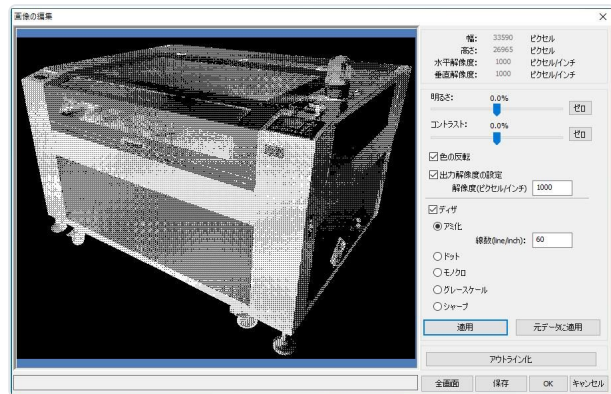
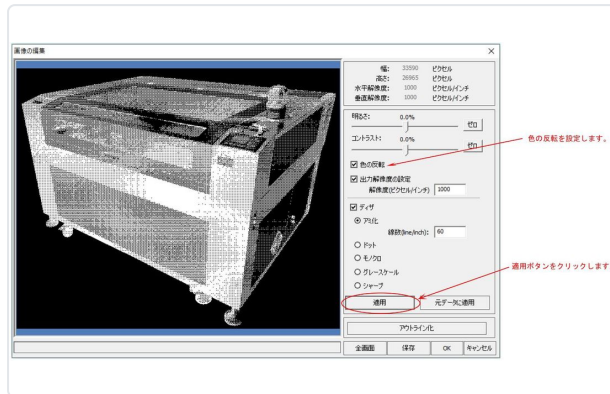
4. Check "Dither" to convert the image to a halftone screen. Set the line frequency to 50–90. (Set an appropriate value depending on the material and the image content; trial runs are needed to find the right setting.) Then click the Apply button.

Note: The settings above are only a guide. You need to run trials and adjust the settings while checking the finished result.

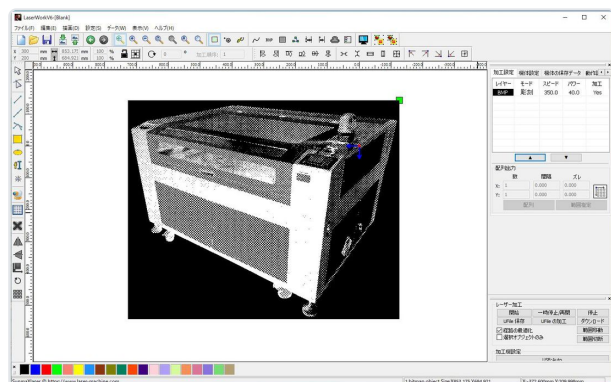
The image is converted as shown in the figure below.



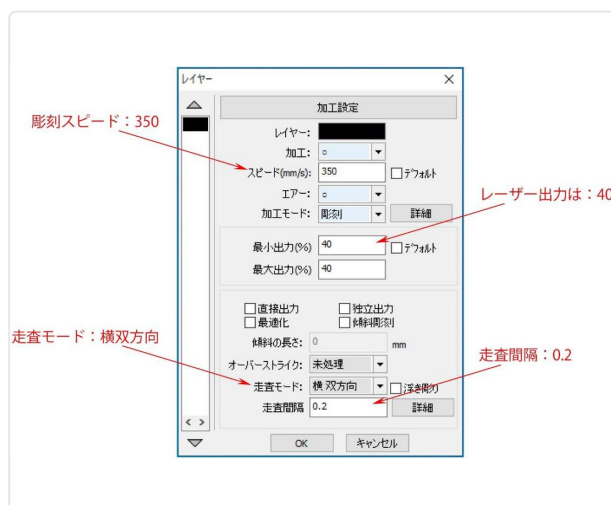
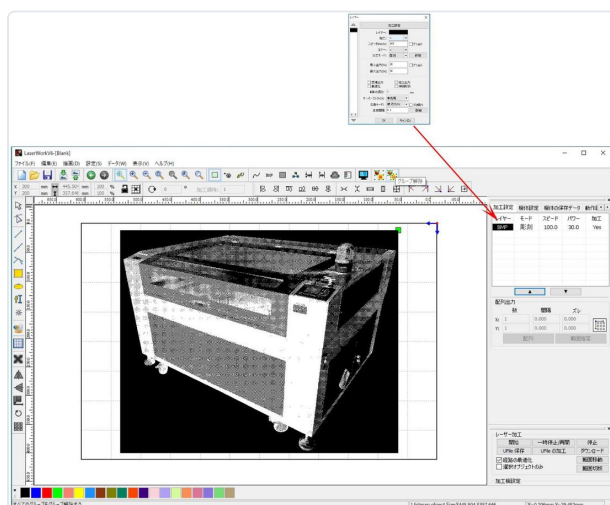
5. Check "Invert Color," click the Apply button, and then click the OK button.
6. The white and black tones are swapped. The laser machine engraves the black areas.



7. Depending on the image content, adjusting the brightness and contrast appropriately can sometimes produce an engraving in which the image content remains recognizable.
8. To finish editing the image, click the OK button. The image is converted as shown in the figure below.



9. Set the mode to "Engrave," then double-click the color bar in the layer list.
10. The engraving settings dialog appears; configure the settings there.



The settings shown above are an example for processing on stone.

The engraving settings differ depending on the material, the data, the required processing quality, and the laser machine model, so determine the settings through trial runs.

Once the settings are complete, perform the download and processing can begin.