

AccuLine - Users' Guide

Software Version 4.1.0

About Operating Environment

Compatible OS

[GTX-4, GTX pro, GTX pro B, GTX-6]

Windows 10 (64bit), Windows 11

[GT-3]

Windows 10 (64bit)

Min. Operating Environment

[Common]

CPU with 2 GHz or above

RAM with 4 GB or above

Display Resolution

[Common]

XGA (1024 x 768) or higher

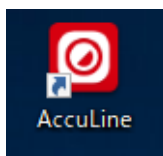
Available Printers

- Brother GT-3
- Brother GTX-4
- Brother GTX pro / pro B
- Brother GTX-6

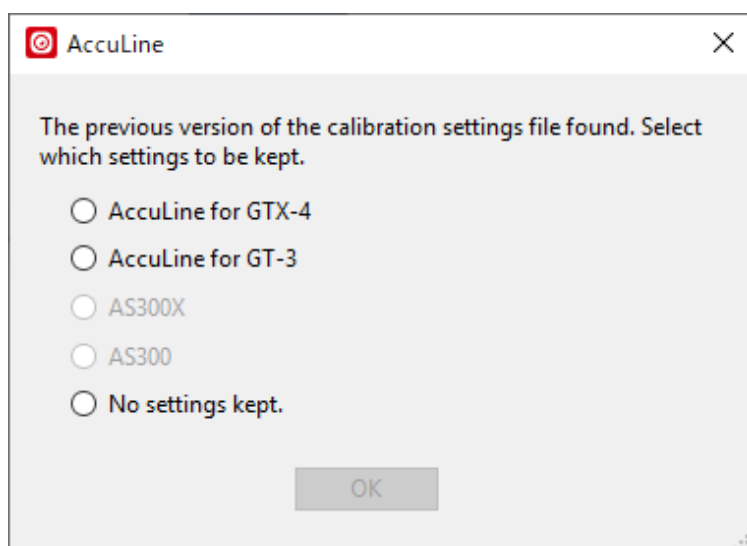
How to use AccuLine

Startup

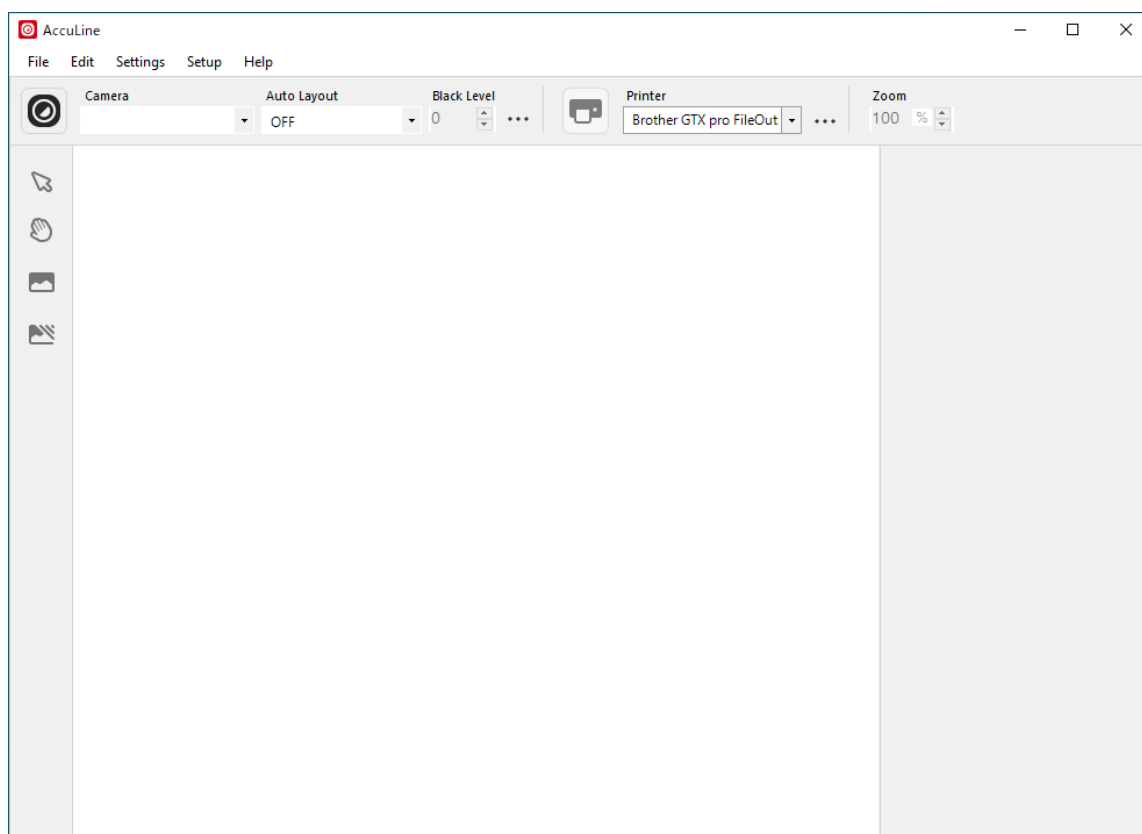
1. Double-Click the desktop icon or browse to the program in the windows menu to launch it.



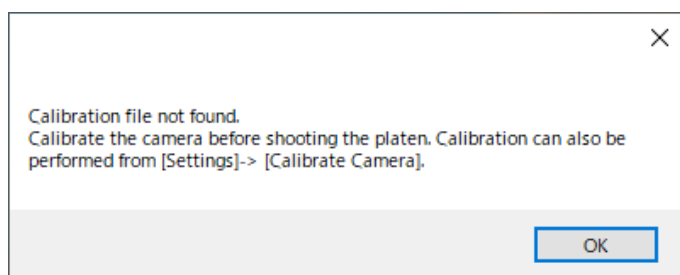
2. If you have used previous AccuLine version (AccuLine for GTX-4, AccuLine for GT-3, AS300X, AS300), a dialog will appear as follow.



If you select a previous AccuLine and click OK button, a main window will open as follows. a main window will open as follows.

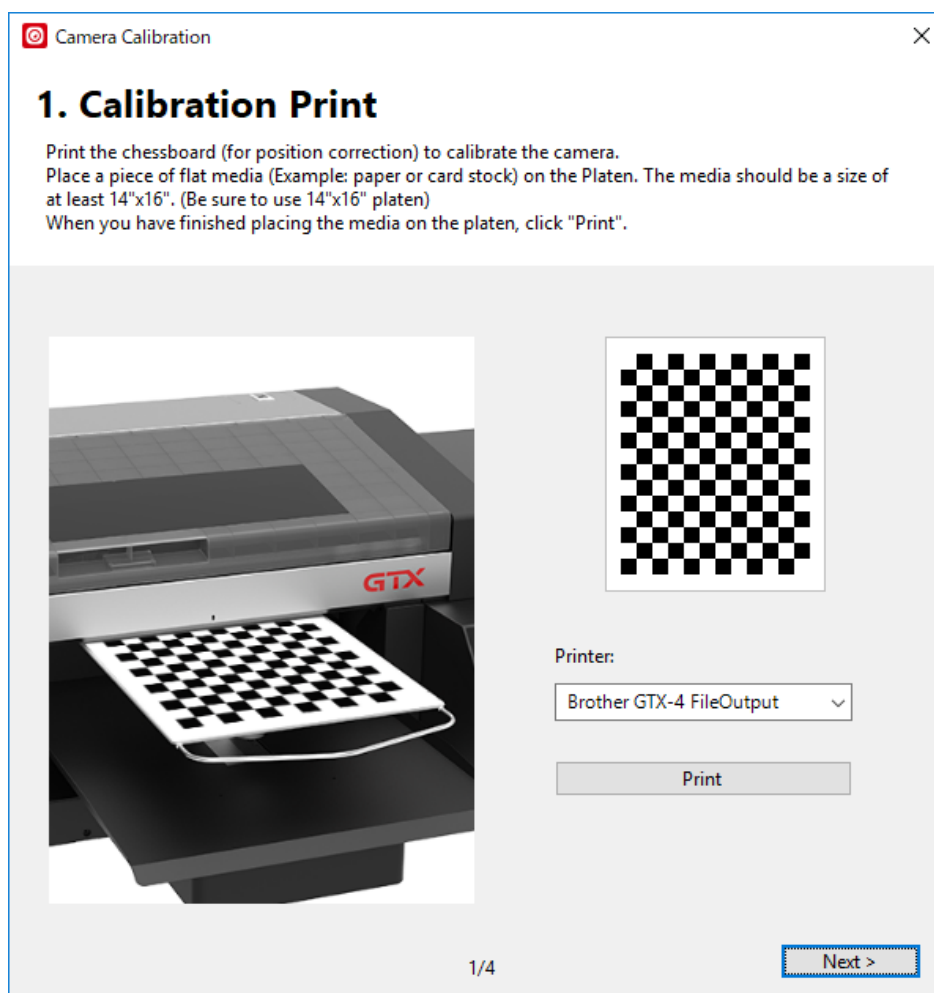


3. If you select "No settings kept." or use the AccuLine for the first time, the next window will appear.

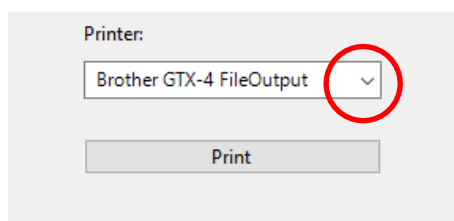


Calibration

1. Click the OK button in the dialog shown for the first time or select Calibrate Camera from the Setup menu, Calibration window is shown as follows.

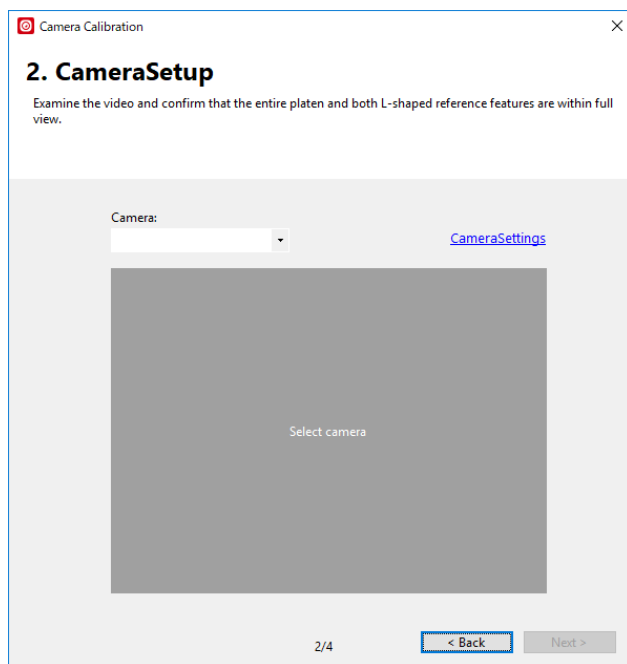


2. Select the printer to use in the drop-down box in the calibration print window.

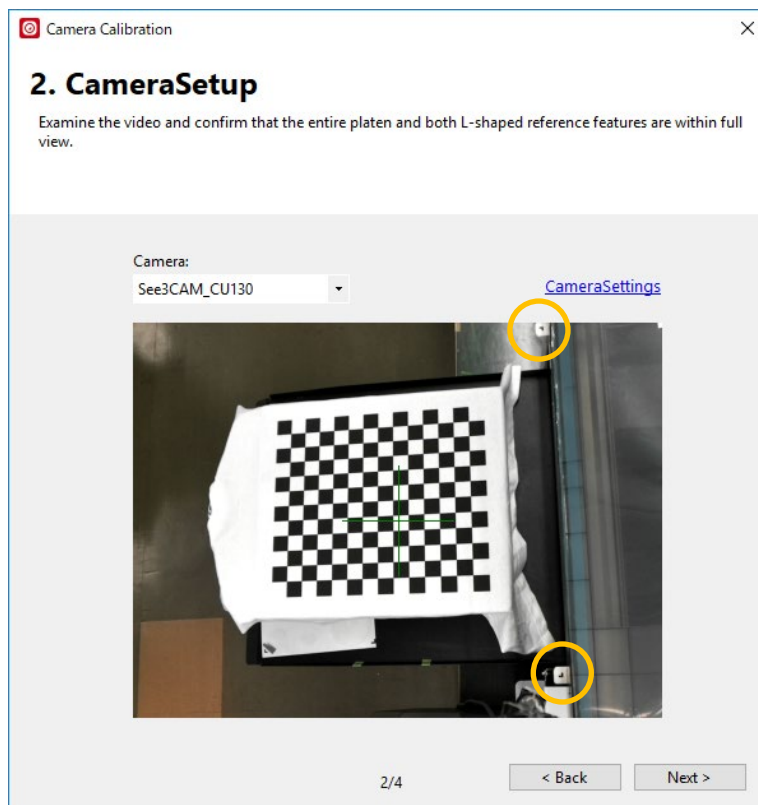


3. Click the Print Button in the window, calibration pattern is sent to selected printer.

4. When the calibration pattern has been printed, click the Next button in the window to advance to the screen shown the following.

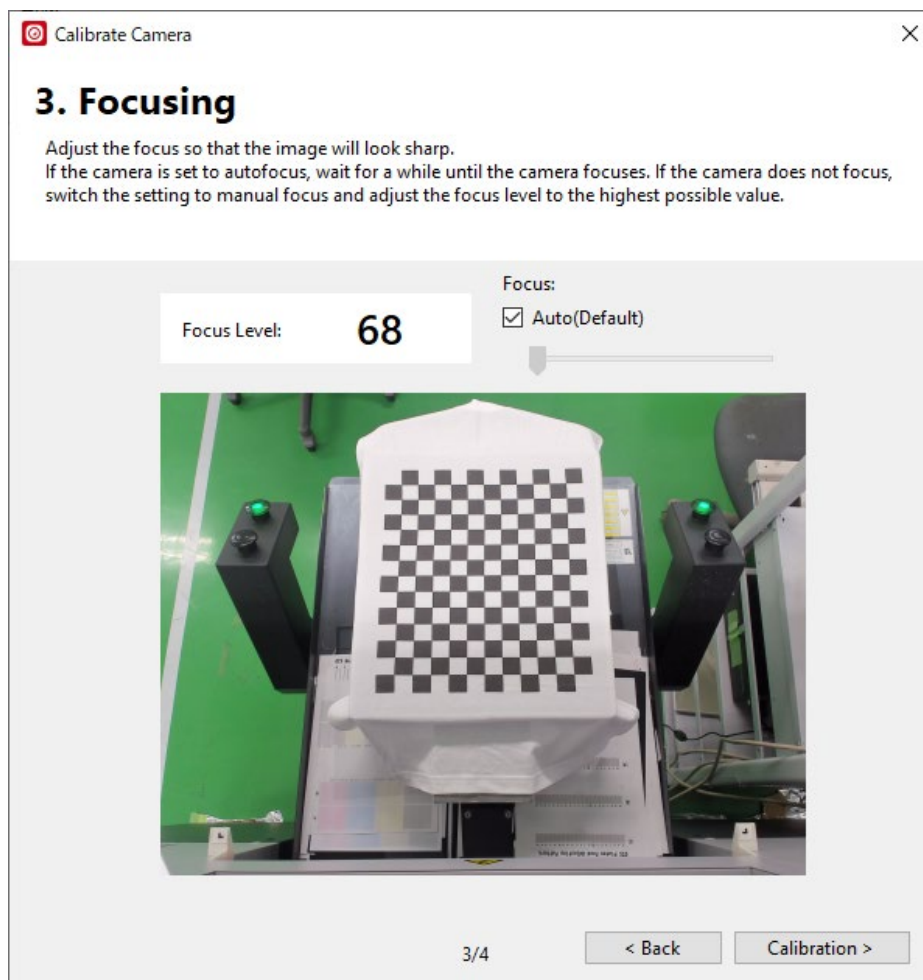


5. Choose the camera in the drop-box, you look through the camera's eye. If you use GTX-6, select "Logitech_BRIO" and If you use another printer, select "See3Cam_CU130". If necessary, manually adjust the camera so that it "sees" the entire printing area as well as the 2 L marks (circled) on either side.



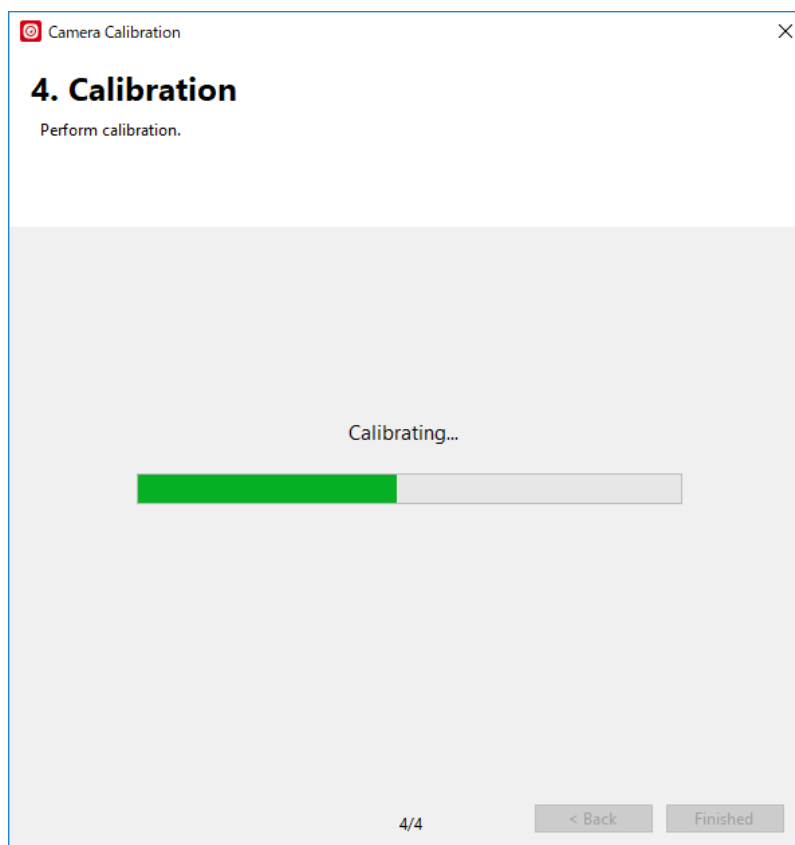
If the capture is not bright enough, adjust the camera exposure. ([Appendix A](#))

6. When the camera is in the correct position, click the Next button in the Camera Setup window to advance to the Focusing window.
7. When the Focusing window appears, manually adjust the focal ring of the camera (by twisting) or with autofocus to make the view of the calibration pattern as sharp as possible. The auto focus slider will only appear if the selected camera has an auto focus feature.

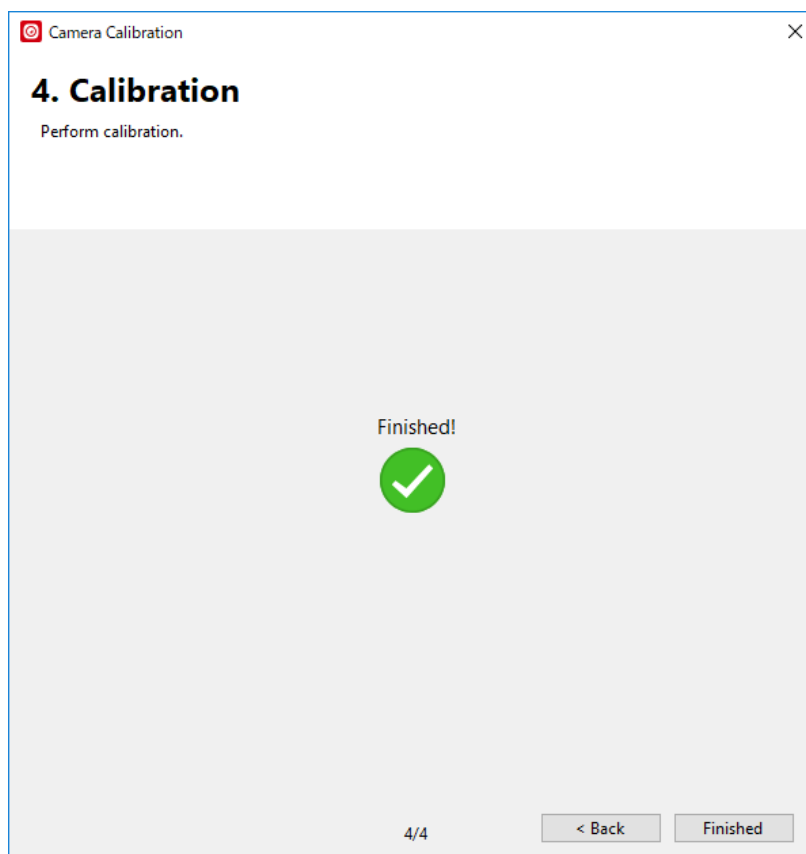


Note that the best overall focus will be achieved when the Focus Level number in the window, is as high as you can make it.

8. Once you have focused the camera, press the Calibration button. Then, calibration starts automatically.

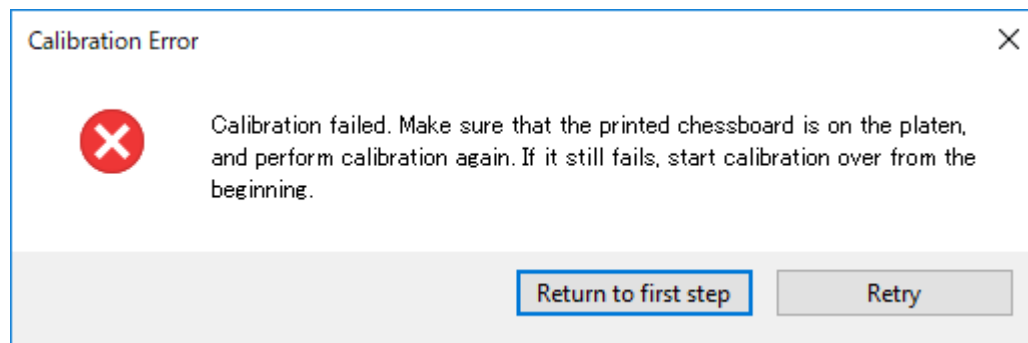


9. When the calibration has been completely processed, the window as follows will appear.



Press the finish button in the calibration windows.

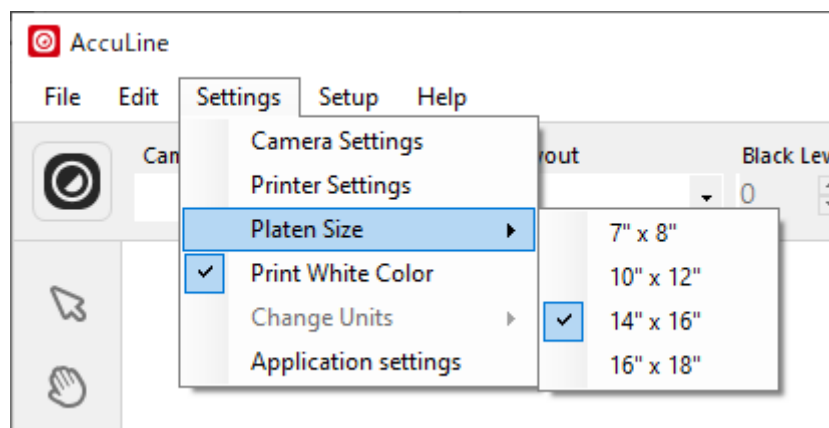
If the following window appear, make sure that the printed calibration pattern is on the platen and shooting range includes 2 L marks.



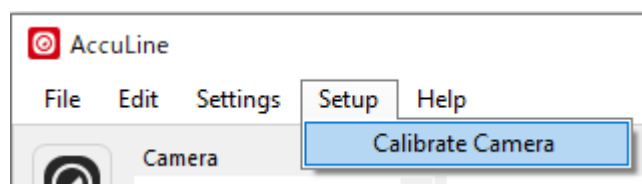
The alignment system is now ready for use with the platen or jig of your choice.

Take Snapshot

1. Double-Click the desktop icon or browse to the program in the windows menu to launch it.
2. Make sure the proper platen size has been selected through the menu bar.

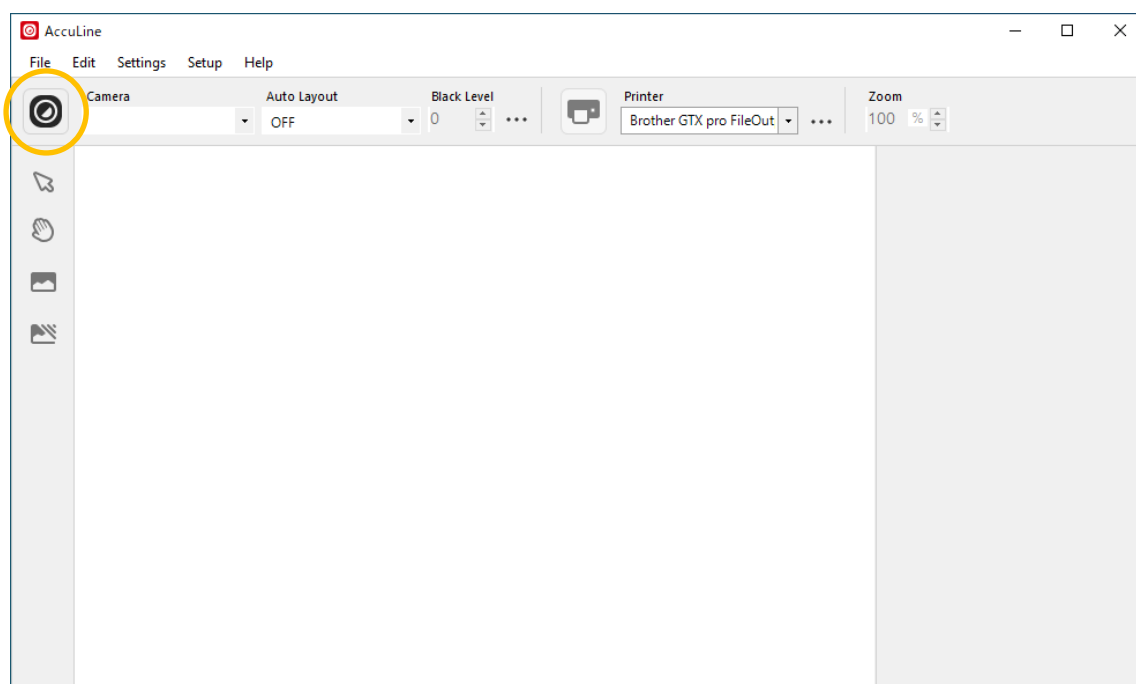


3. If the printer has not been calibrated, perform calibration as described in a [previous section](#).

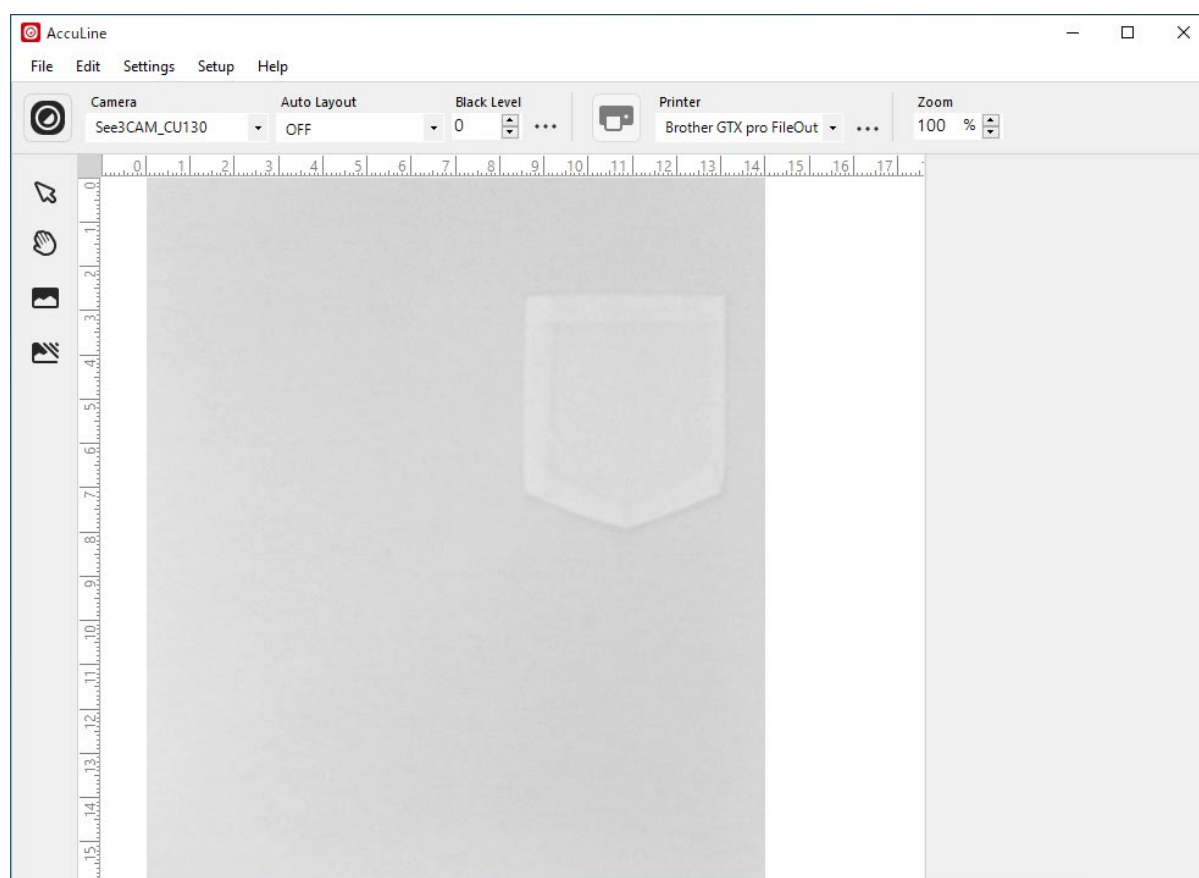


4. Position your media on the platen.

5. With the platen back out in the load position, press the Take Snapshot button  in the main window.



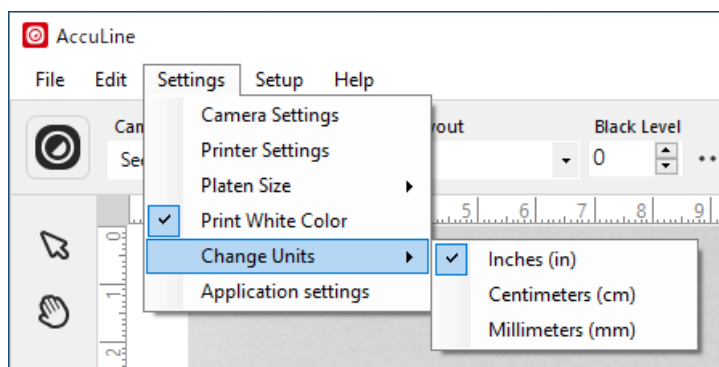
When the snapshot process is complete, a snapshot image is shown in the main window.




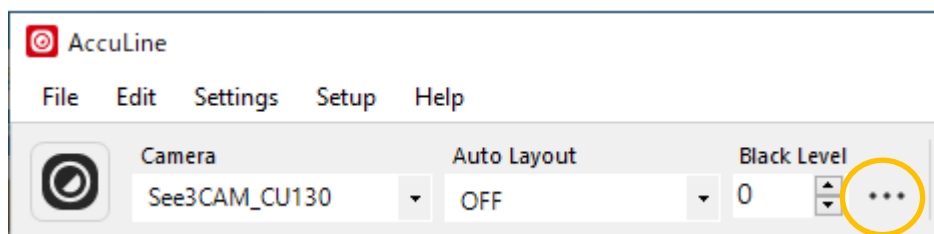
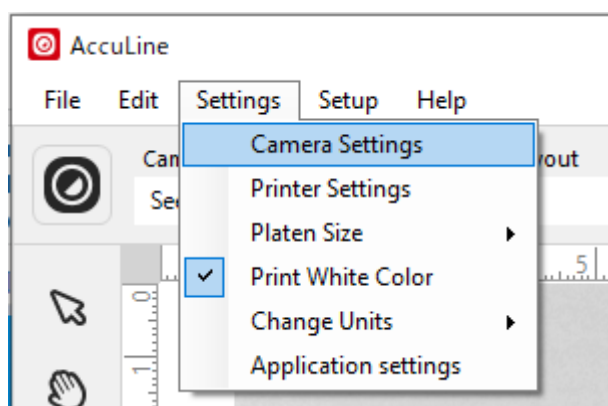
6. The Black Level textbox at the top may be adjusted at any time after the snapshot has been processed, to help improve your visibility (within the software) of the media on the platen.




7. If the steps are too small or too large, switch the unit.

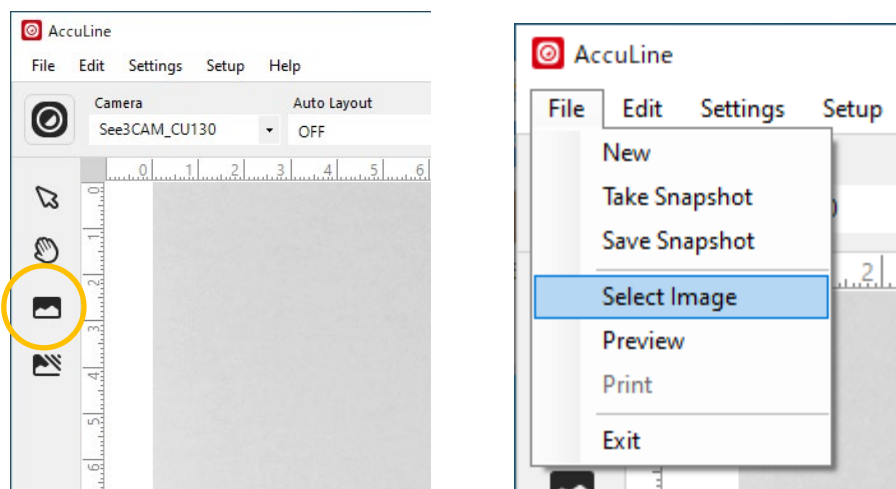


8. If the camera is not connected, select Camera Settings from the Settings menu or button  and Choose See3Cam_CU130 or Logitech_BRIO. ([Appendix A](#))

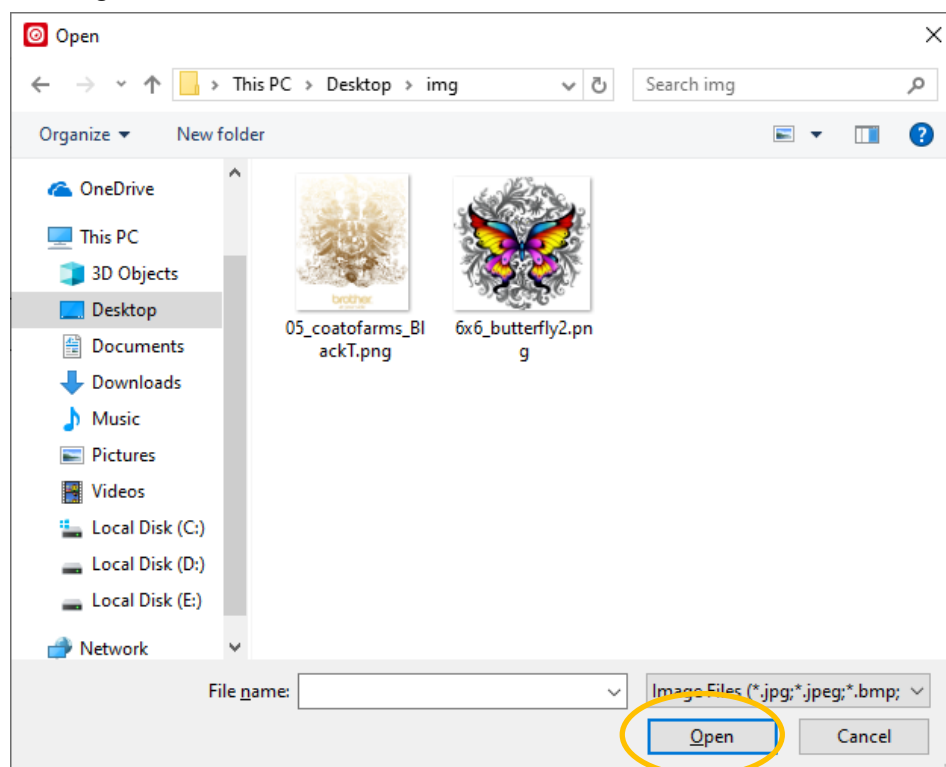


Select Image

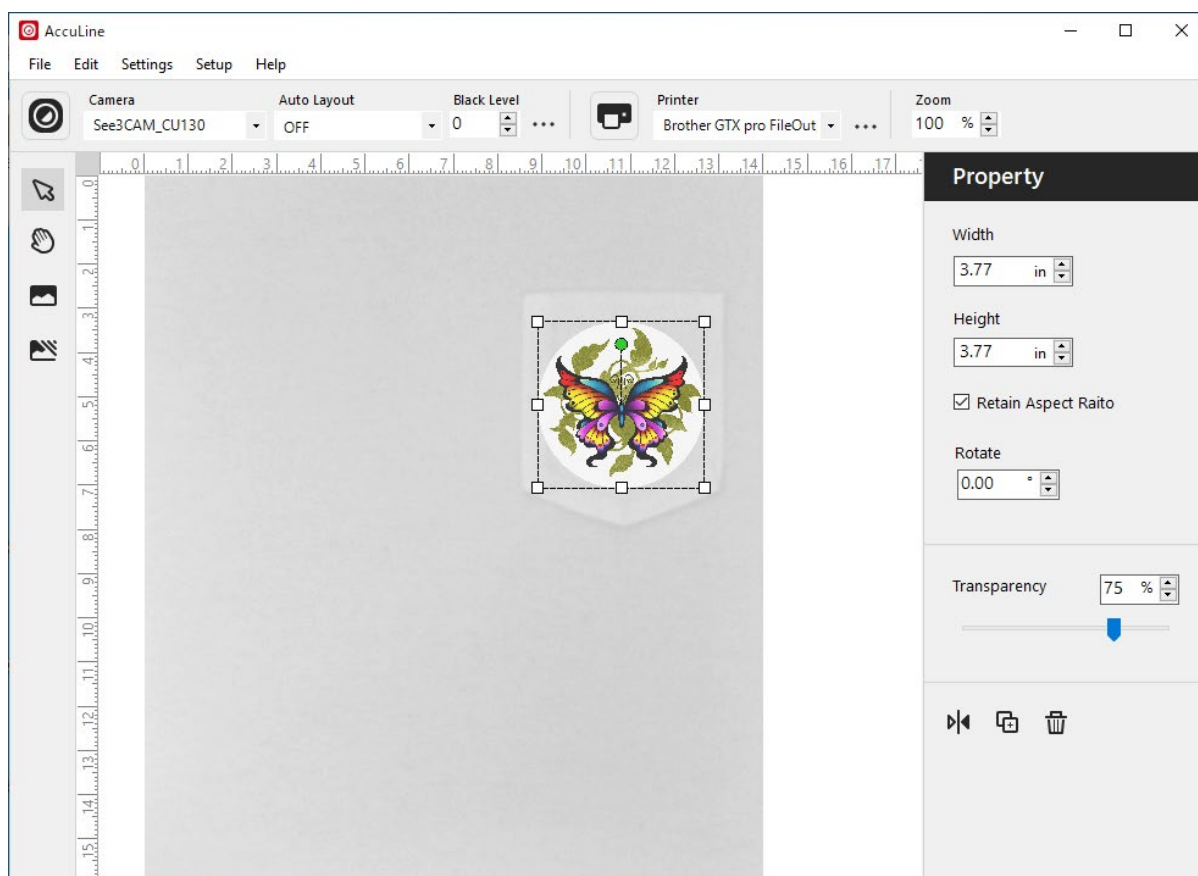
1. Click Select Image button  or Select Image from the File menu.



2. Browse to the drive and folder containing your image, select it, and press the Open button in the lower right.



- Use the buttons, slider and text boxes in property panel, or your mouse and the image handles in the Alignment View, to resize, rotate and position your image.



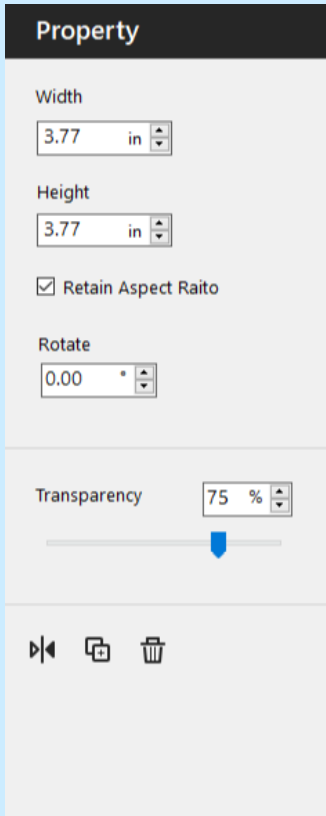
Edit Image




Alignment View



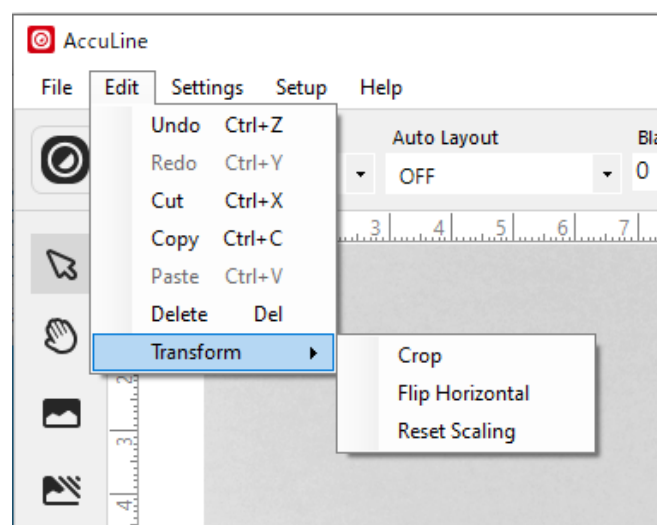
- Image drag-and-drop
Adjust the image placement.
- □ anchor drag-and-drop
Resize the image.
- ● anchor Drag-and-Drop
Rotate the image.

Property Panel



- Width / Height text box
Resize image Width or Height.
- Retain Aspect Ratio checkbox
Checked : Shrink or enlarge the image proportionately.
Unchecked : Shrink or enlarge the image disproportionately.
- Rotate text box
Rotate the image through the range of -180 degrees to 180 degrees.
- Transparency textbox and slider
Change the transparency of the image within alignment View, though it does NOT affect the saturation of the print.
- Flip Horizontal button 
Mirror the image horizontally based on the orientation of the original image.
- Duplication button 
Duplicate the image.
- Delete button 
Delete the image.

Edit Menu



- Undo / Redo

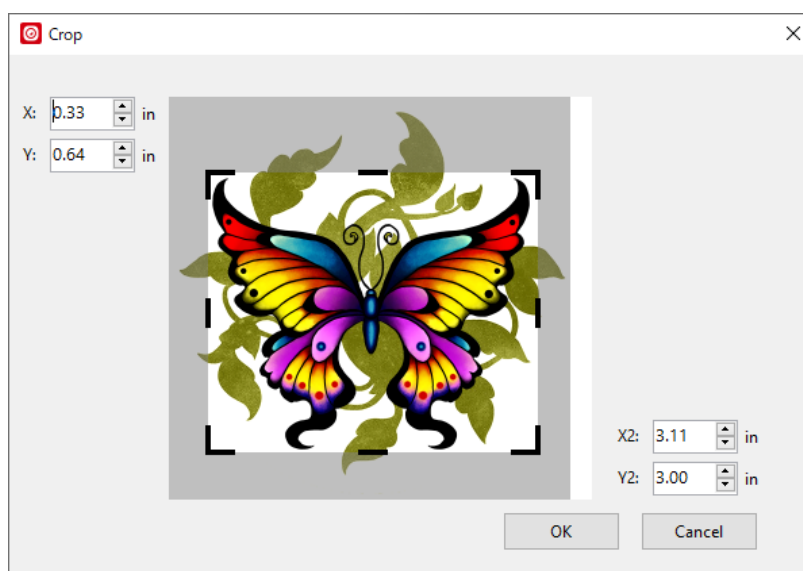
The Undo and Redo menu allow you step backward and forward through the sequence of alterations that have been made to image size, cropping, rotation and placement.

- Cut / Copy / Paste / Delete

The selected image can be copied and cut and pasted using shortcut key or by selecting Copy or Cut then Paste from the Edit tab in the menu bar. It may be deleted using the menu command or the Delete button on your keyboard.

- Crop

A selected image can be cropped using the Crop function accessed through the Edit tab on the menu bar. Choosing Crop will open a window like the following.



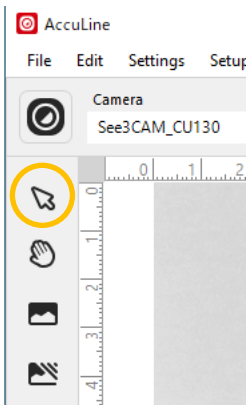
The crop box can be moved by dragging the black lines to the desired position or by highlighting the text in the coordinate text boxes at the upper left and lower right and manually entering new numbers.


- Reset Scalling

Return the image or portion of the image (this function does NOT un-crop an image) to its original dimensions.

Tools

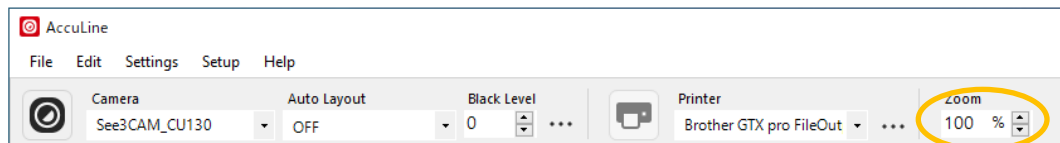
- Select Tool




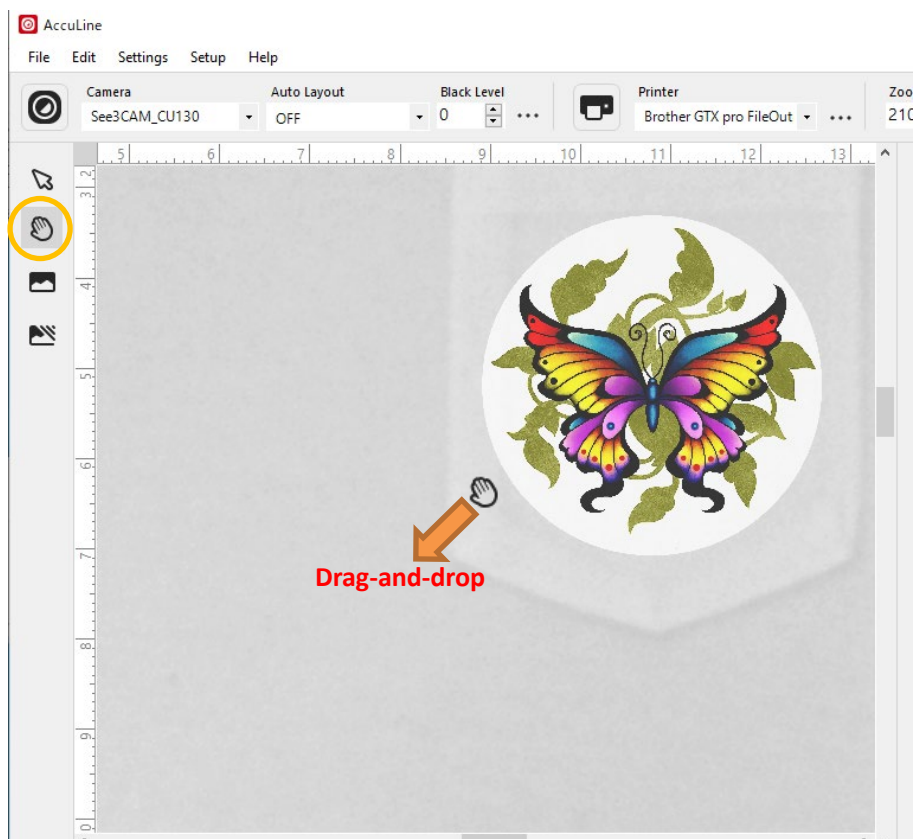
Clicking Select Tool button , you can edit images such as moving, resizing and rotating. When you select a image with this tool, property panel is shown. In addition, the edit menu is enabled.

- Hand Tool


You can zoom in the Alignment View with textbox at the top of main windows.

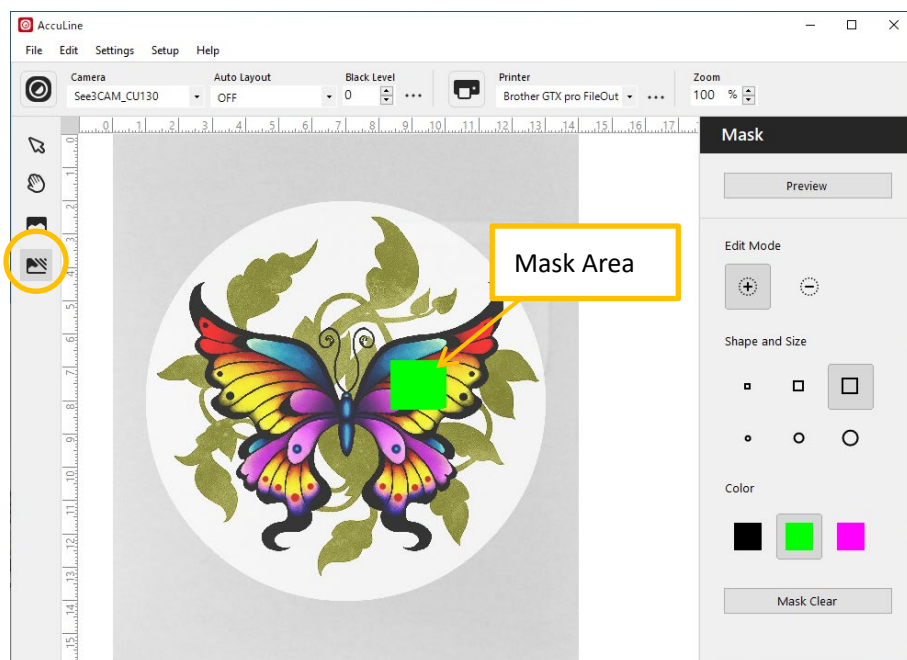


If you zoomed in to see a small area, you can move the visible area of the Alignment View with the Hand tool. Clicking the Hand Tool button  allows you to move the visible area by the drag-and-drop.

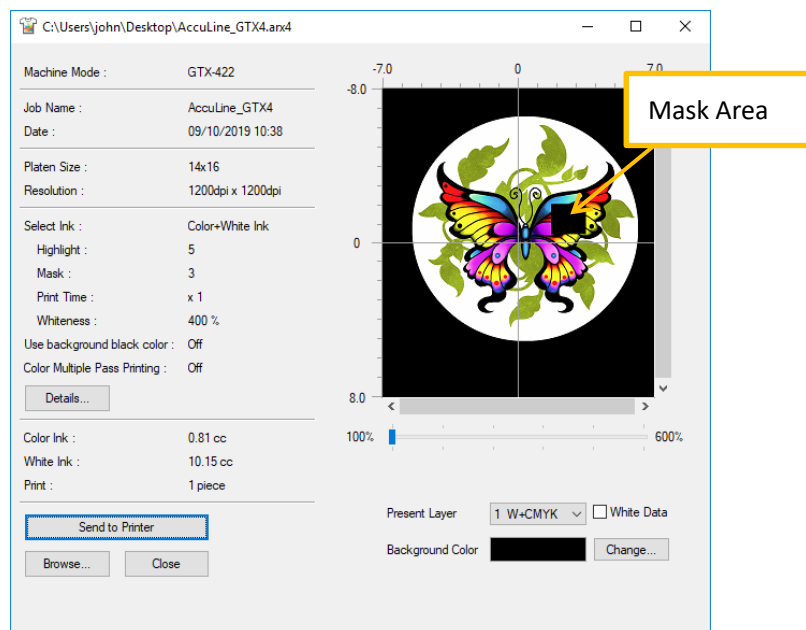


- Mask Tool

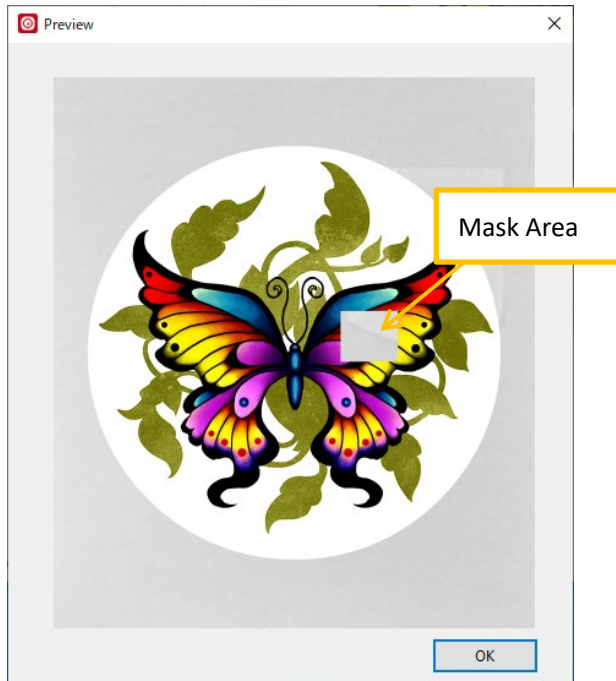
Clicking Mask Tool button  allows you to draw masking area. The masking area is NOT printed.



Print



If you click Preview button in the Mask panel or select Preview from the File menu, the preview window at the following is shown. The masked image area is transparent in this preview window.



Mask

Preview

Edit Mode

+

-

Shape and Size

Color

Mask Clear

- **Edit Mode button**
 Select + button to draw a mask area.
 Select - button to remove mask area.
- **Shape and Size**
 Select the shape and size when drawing the mask.
- **Color**
 Select the color of the mask area. Changing the color also changes the color of the mask area that has already been drawn.
- **Mask Clear button**
 Clear the drawn mask.

Save Snapshot

The user is able to tailor images to their media in more sophisticated ways with the aid of the Save Snapshot feature. Save Snapshot allows you to save the snapshot of the media on the platen as an image file that can then be imported into powerful image editing programs for use as a template. You can perform this feature from the File menu.

New

If you delete the snapshot and all images in the Alignment View, select new from the File menu to reset the session.

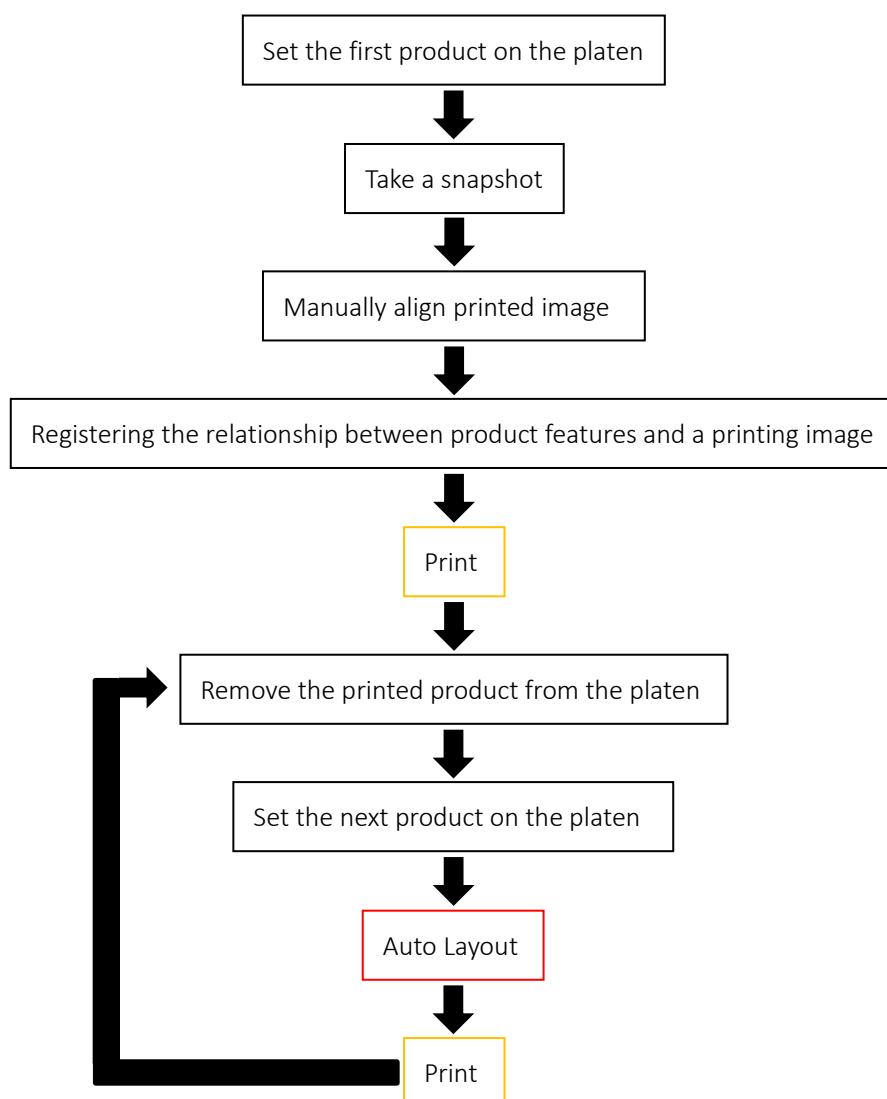
Auto Layout

Automatically align a print image when printing the same product. Registering the relationship between product features (e.g., pockets, labels, etc.) and a printing image will enable automatic alignment.

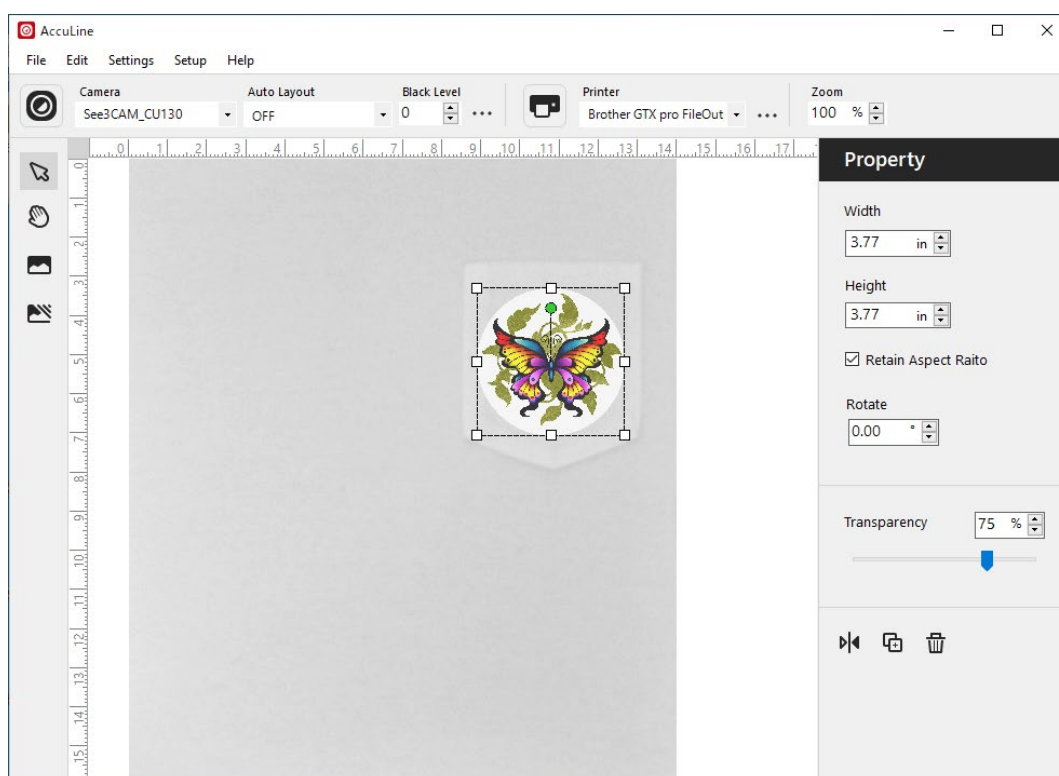
<CAUTION>

Auto Layout is not always successful. The printing image may be positioned incorrectly depending on product features and the conditions under which the snapshot was taken. In such cases, please align manually.

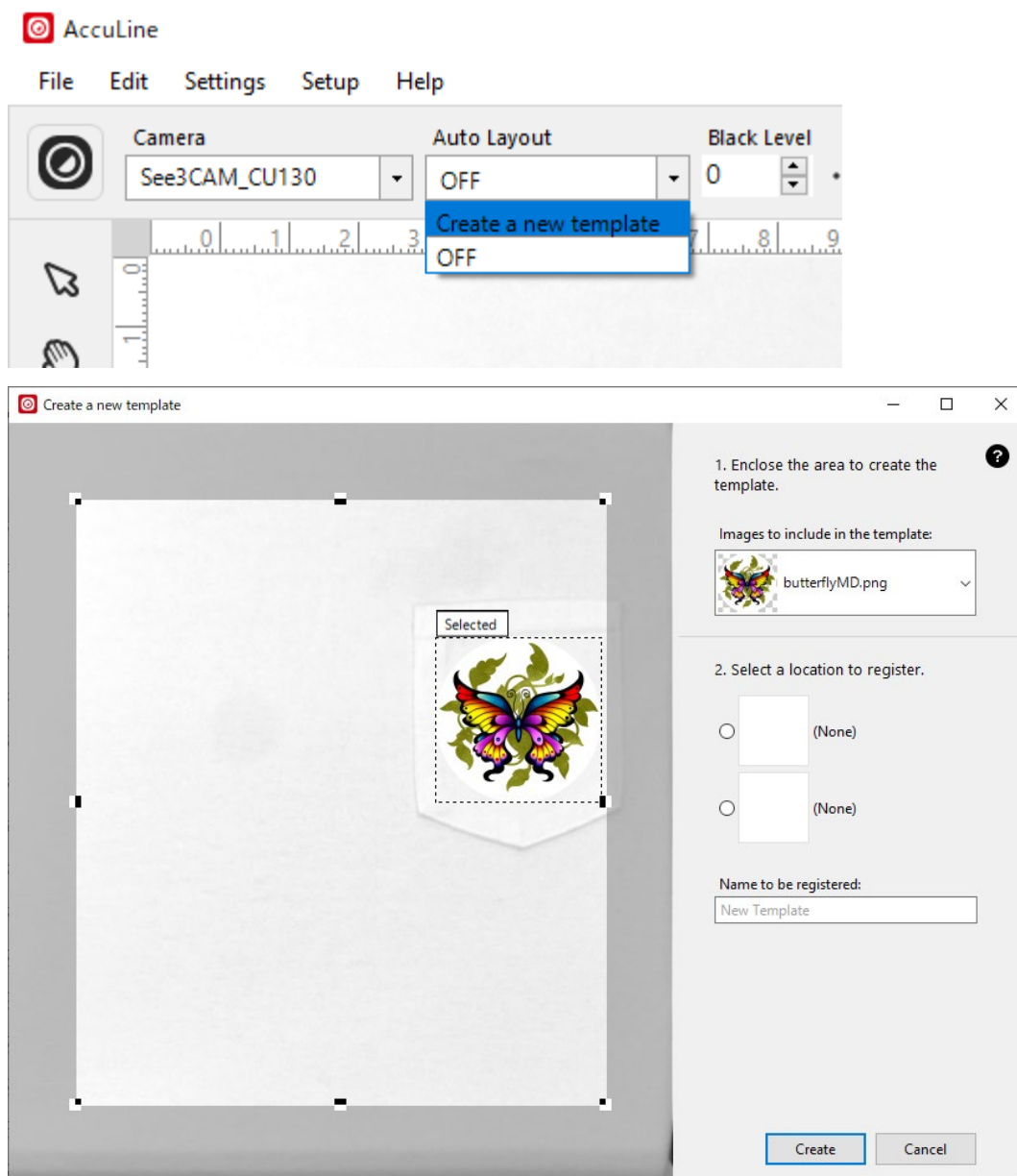
The flow of Auto Layout is as follows:



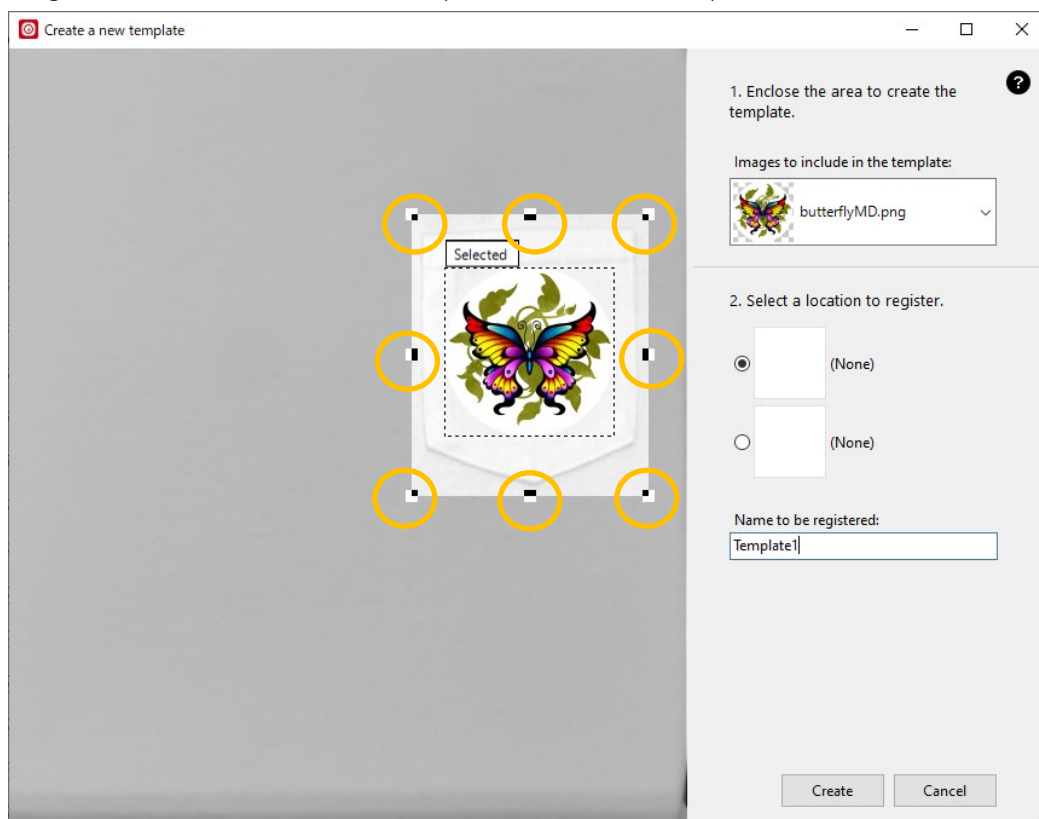
1. Take a snapshot and place a print image manually.



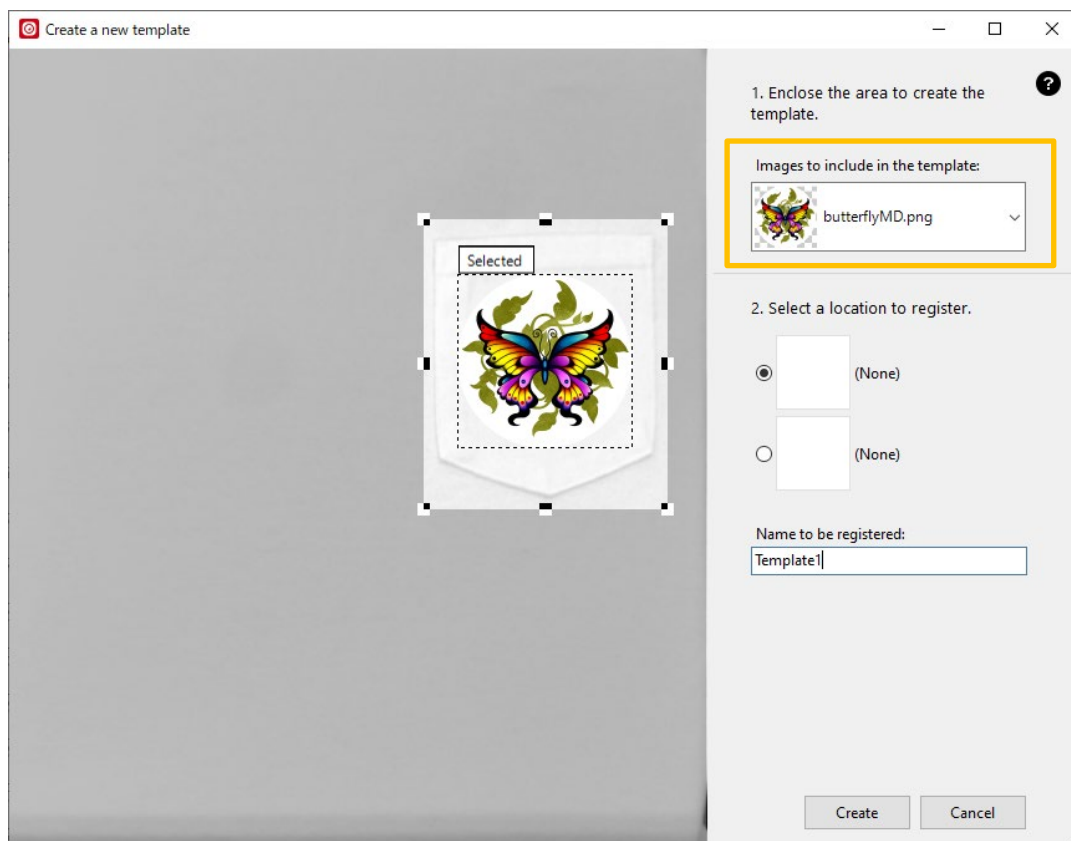
- Click "Create a new template" from the Auto Layout menu and "Create New Template" window is shown.



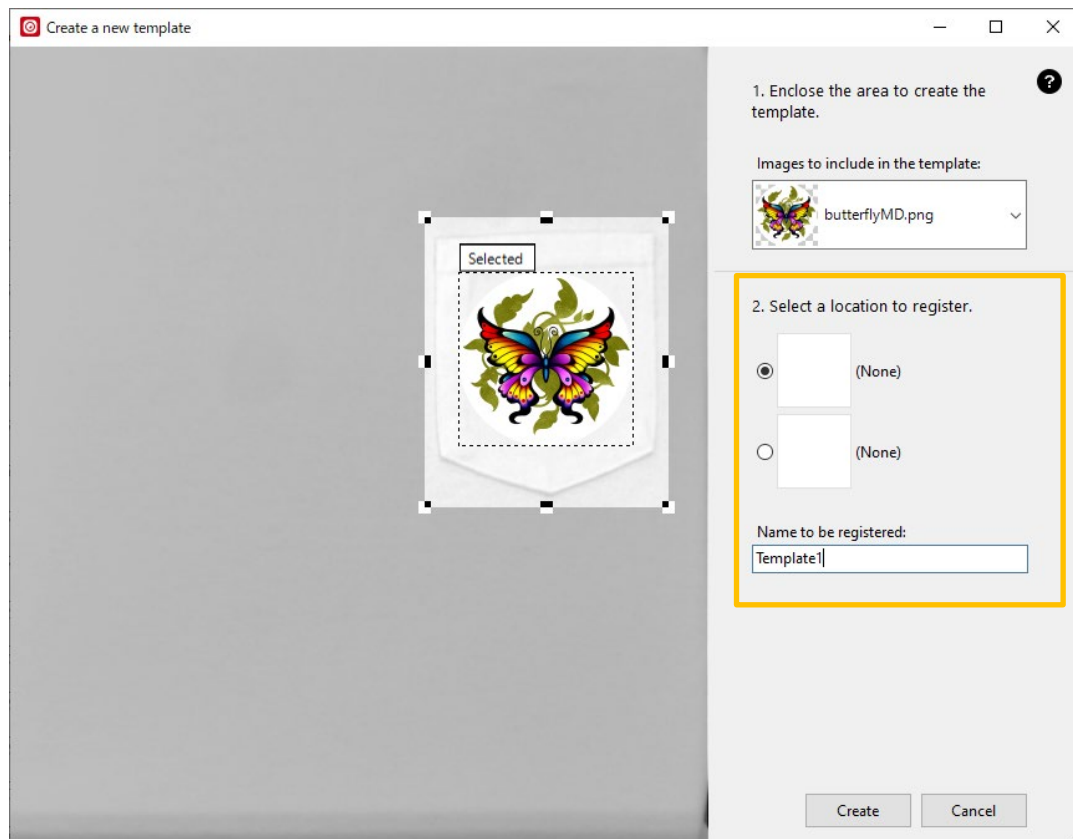
3. Drag the handle around to include the product features of the print.




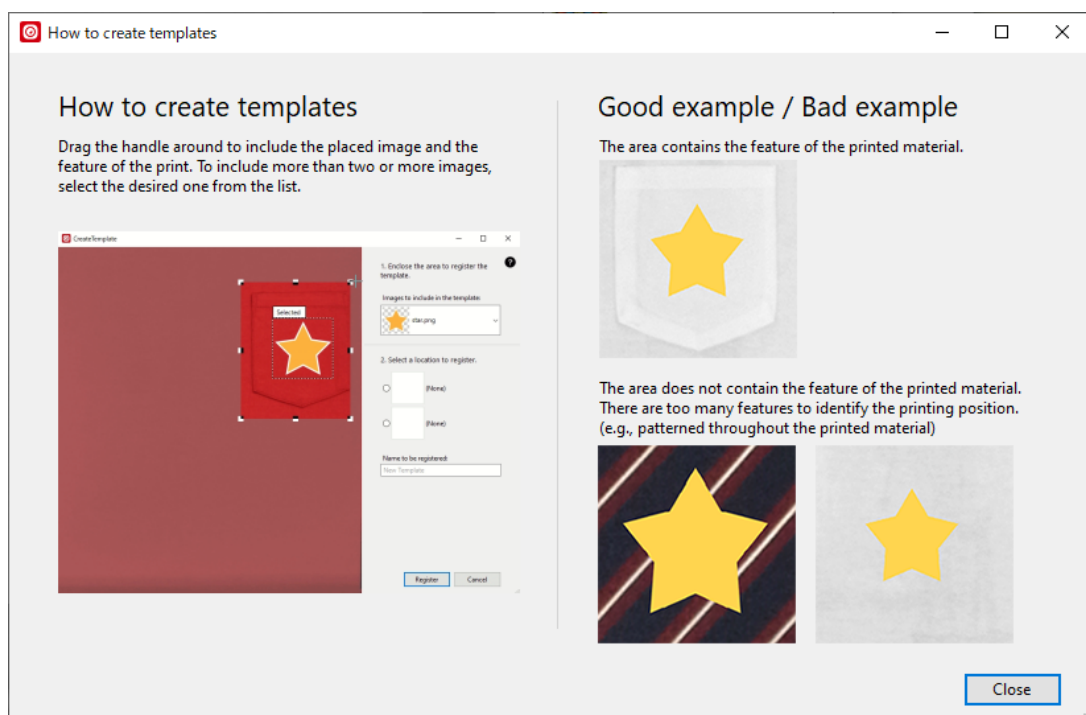
4. Select a printing image in the images list.



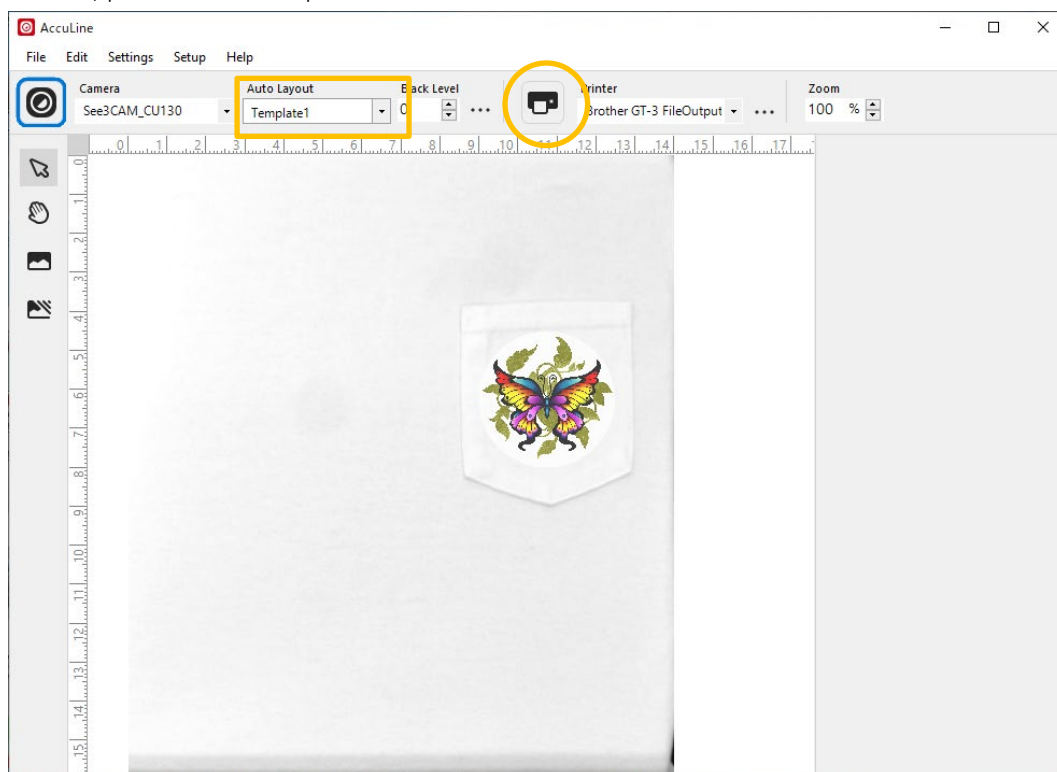
5. Select the radio button to register the template and enter the name of the registration. Then click on the Create button.



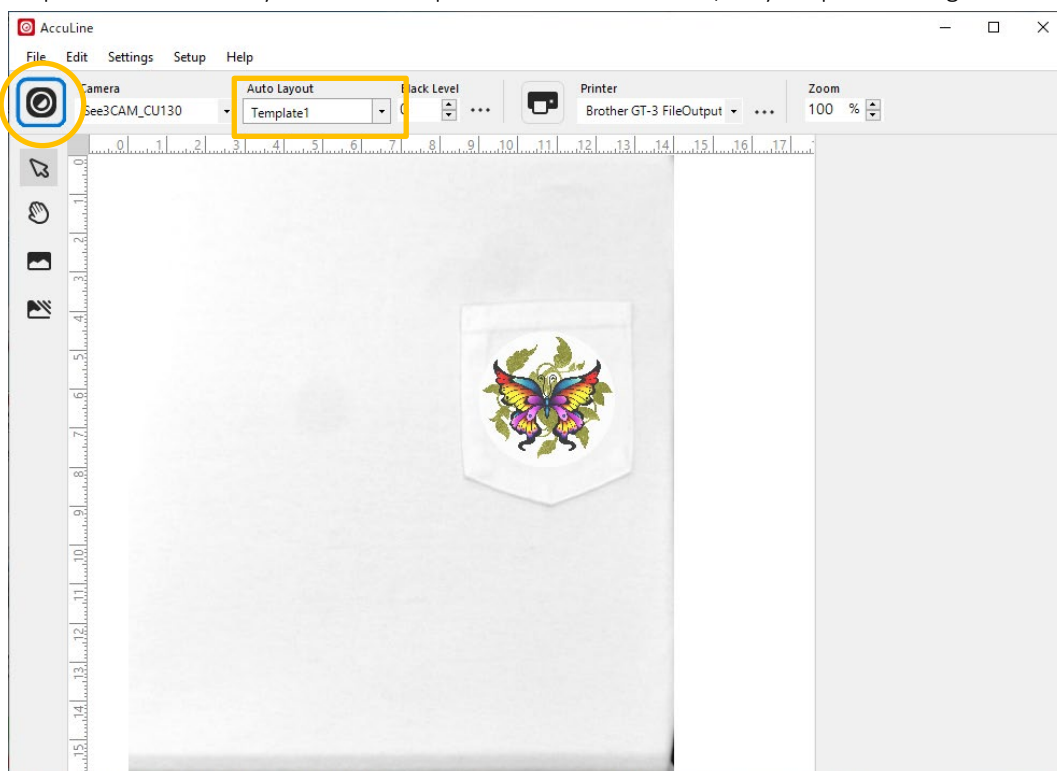
Clicking on the Help button  for help on how to create a template.



6. When you create a template, the template name appears in the list. Once the template has been created, print out the first product.

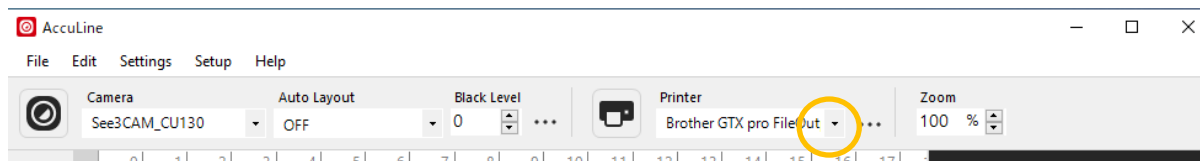


7. Remove the printed product from the platen and set the next product.
8. If you click on the Take Snapshot button with the "template name" selected, the print image will be placed automatically based on template. If "OFF" is selected, only snapshot taking is executed.

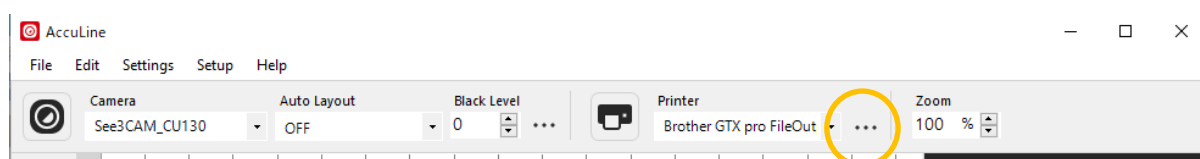


Printing

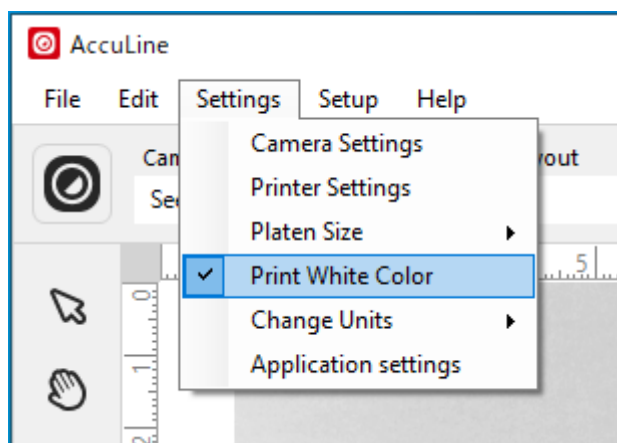
1. Select the printer to use in the drop-down box in the upper right of main window.



2. Click Printer Settings Button or select Printer Settings from the Settings menu to make your settings of printer driver.

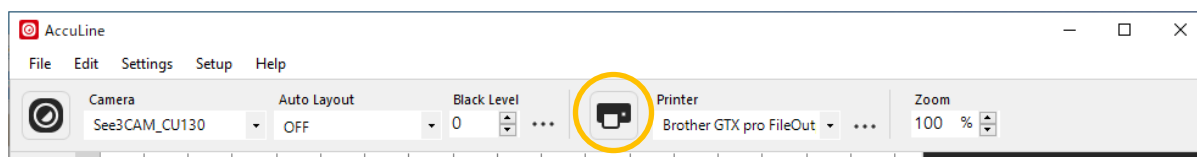


3. Make sure the Print White Color from the Settings menu.



When this menu is checked, the printer driver converts RGB=255 to 254 and then performs printing with white ink. When this menu is not checked, the printer driver treats RGB=255 as “Transparent color” and does not eject the ink. This is enabled only when creating print data with [Color + White Ink] or [White Ink Only]. When printing with [Color Ink Only] or [Black Ink Only], RGB=255 is treated as “Transparent color”.

- Press the Print button in the upper right to main window or Print from the File menu.

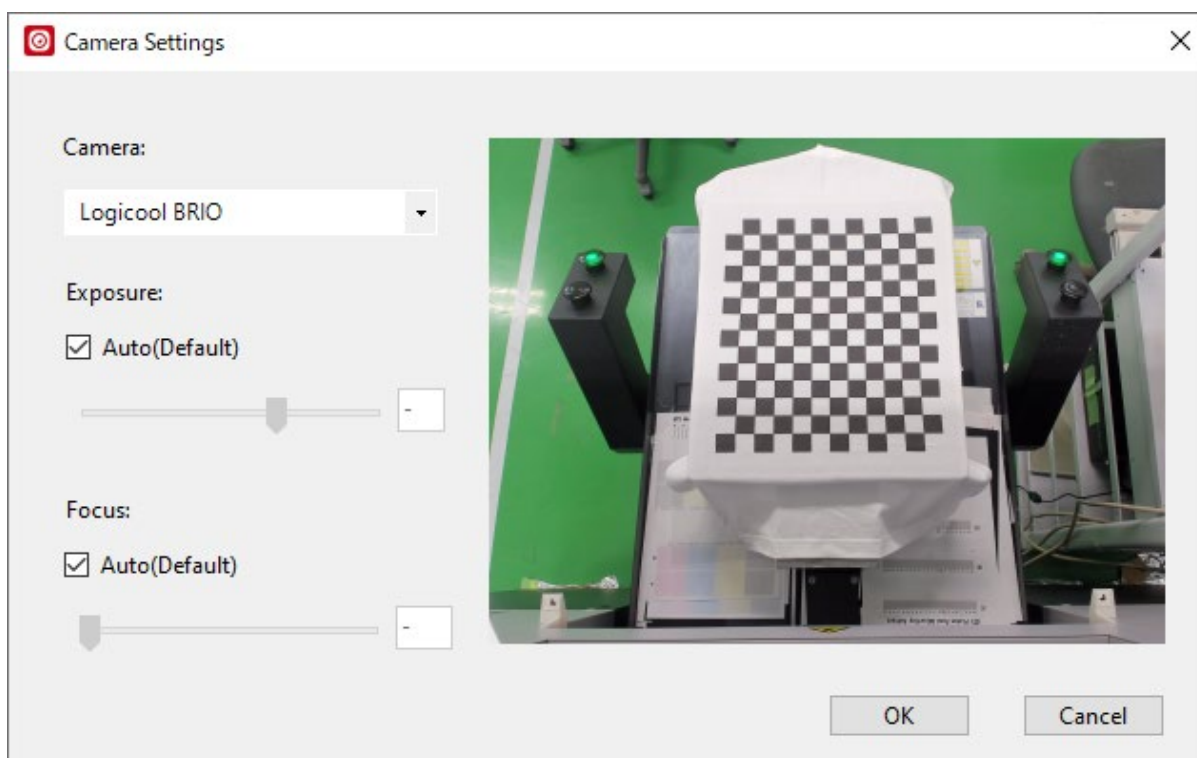


Depending on your setup and the complexity of your image(s), expect a 1 - 2 minute delay between the software's print command and the printer's indication that it is receiving data.

Appendix A

Camera Settings

To select the camera, first choose Camera Settings from the Settings Menu, then select the See3CAM_CU130 or Logitech_BRIO from the Select Camera device in the drop-down box. When it becomes active, press OK button to accept your selection.



If the capture image is not bright enough, adjust the camera exposure. When the "Auto" checkbox unchecked, you can adjust the exposure with the slider manually.

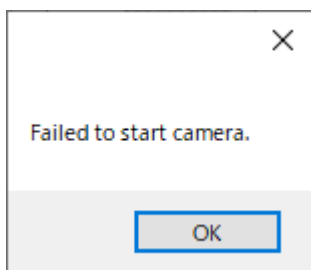
The default exposure setting has the "Auto" checkbox checked.

If the selected camera has an auto focus feature, the "Focus" checkbox and slider will appear. When the "Auto" checkbox unchecked, you can adjust the focus with the slider manually.

The default focus setting has the "Auto" checkbox checked.

Attention

- If the camera is being used by another application, the dialog at the following is appears.

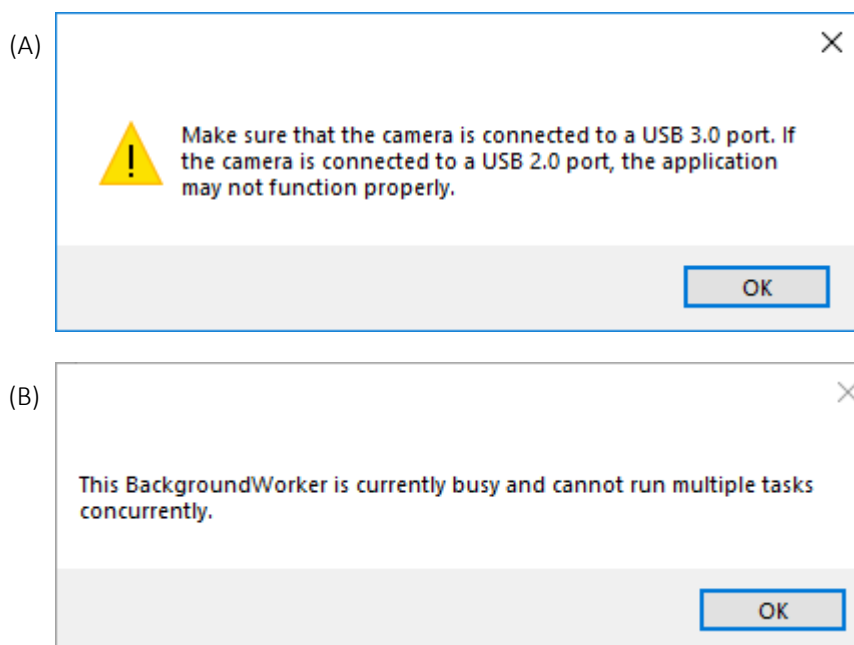


Close another application that use camera, and then start AccuLine.

- If the print position is misaligned, perform calibration at the same platen gap as when printing.
- If you want to perform alignment more accurately, it is recommended to print calibration pattern when you perform calibration every time.

Troubleshooting

- If the following dialog(A) is displayed and the camera's USB cable is disconnected from PC, another dialog(B) may be displayed. If you click OK button in the dialog(B), you can use the application as it is.



If you cannot shoot with the camera, try the following steps:

1. Click the Camera Settings from the Settings menu.
2. Select blank in the camera drop-down-box.
3. Select See3Cam_CU130 or Logitech_BRIO in the camera drop-down-box.