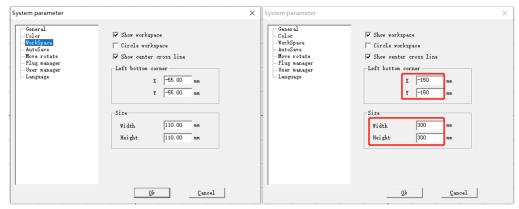# Settings For EZCad

After replacing the F-theta lens, you need to perform the following settings:
Example: F160 (110*110mm) change to F420 (300*300mm)

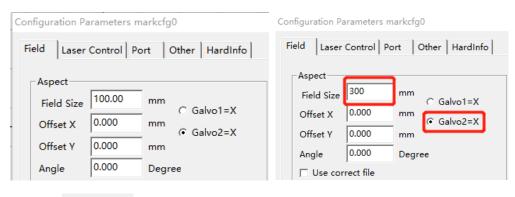1. System parameters:
Modify the left button Corner and size of the workspace.

2. Adjust the lift to the correct focus position (continuously mark the square, the focus position when the laser is the strongest)
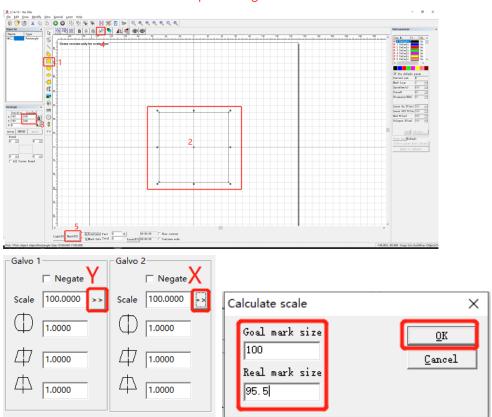
3. Parameters (F3):
Modify the Field size, select galvanometer 2.

Press ：

4, Mark a 100*100mm square, measure the actual size, and calculate the expansion ratio.

*Note: If there are some distortions with the Laser scanner (galvo), users should firstly adjust the distortions and then the flex percentage.

When setting scale, we may press the button

Goal mark size: the size set in the software.

Real mark size: the measured size of the object that have been marked on the workpiece.
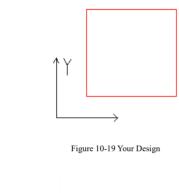
The software will calculate the scale automatically according to these two values.

5, Other settings(Please refer to EZCAD2 Manual)

This item refers to the distortional correction coefficient, and the default value is 1.0 (range

from 0.875 – 1.125). If your design is as Figure 10-19 shows but the marked work is Figure 10-20 or Figure 10-21, you will have to increase the coefficient on the X axis direction for Figure 10-20 and lower the coefficient on the X axis direction for Figure 10-21.
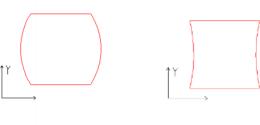
Figure 10-19 Your Design

Figure 10-20 Marked Work

Figure 10-21 Marked Work

This item indicates the parallelogram correction coefficient, and the default is 1.0 (range from 0.875 – 1.125). If your design is as Figure 10-19 shows but the marked work is Figure 10-22, you will have to adjust this parameter to correct it.
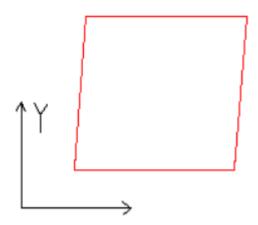
Figure 10-22 Marked Work

Scale: It refers to the flex percentage, and the default is 100%. This parameter will be adjusted when the trim size marked is different from the setting size. If the trim size is smaller than the designed one, users can raise this parameter; if the trim size is bigger than the designed one, users can lower this parameter.