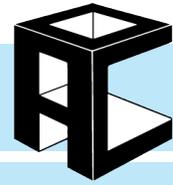# Trotec Vision Guide

Advanced Output Center

What It Is

- The Trotec Vision is a camera attachment that allows you to line up complex shapes to printed media using registration marks. First you will print registration marks on your material, then when the same file is sent to the Trotec for cutting, the camera will search for these registration marks, aligning your file perfectly with your printed media for cutting.
- This can be used for a number of applications such as business cards, brochures, stickers, etc.
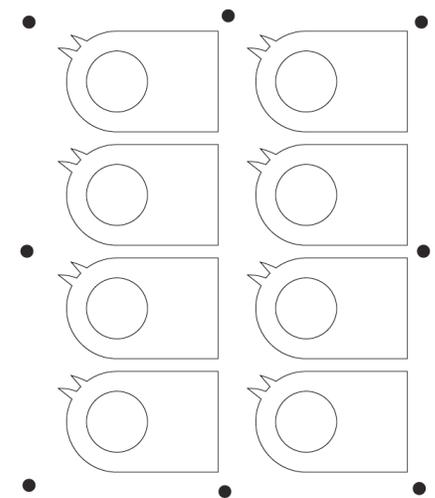

Setup

In order for the camera to register your document correctly you will need to follow these steps:

1. Create your graphics in illustrator or import your graphics into an illustrator file.

2. Add multiple 0.25" black circles around the graphic you wish to cut. At least 4 dots are recommended. With more complex geometries, it is advised to get the dots around important areas of detail.

3. Print your graphic onto your preferred media for cutting.

4. In the Illustrator file, create your vector lines that you wish to cut or engrave, making sure you do not use the color black as that will be for the registration dots. Vectors should be in red or any other color channel

available.

5. Open your Illustrator file on the Trotec computer and hide the graphics. You should leave only the black dots and your cutting vectors.

6. AOC Staff will attach the camera to the machine and the vacuum table if needed.

7. Send your file from Illustrator with black set to "Reg Mark" and your other

colors assigned as you are using them.

8. Place your media in the bed and focus as normal.

9. When you hit start the machine will ask you to find one of the targets on the document. After it sees the target it will attempt to find another target. If it is not find the other target automatically you will need to aid the machine in finding it.

10. After the second target it should easily find the remaining targets. If one is not found or is unable to be read, you can tell the machine to skip that target.

11. Once all targets are found or skipped the machine will cut the file on the media in the correct alignment.

Your printed media should look like this.

Your illustrator file should look like this.

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This document is available electronically at http://sites.saic.edu/aoc

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