

## Solution to Light Color of Printing Patterns on UV Universal Printers

During the printing process, it was found that the pattern color and hue were too light and dim. The equipment needs to be stopped and the printing settings should be readjusted. There are four reasons that affect the light color of printed patterns on UV universal printers.

### Reason 1: Setting ink volume parameters

In the UV universal printer image control software, there are different ink output controls such as 40%, 60%, 80%, and 100%, as well as settings for 0-200% feathering parameters. Printing with 80% ink instead of 100% ink will result in lighter colors in the printed pattern. Need to modify parameters and increase the inkjet volume parameter.

### Reason 2: PASS mode setting

The color and accuracy of the printed patterns are different under different PASS modes. For some objects with smaller materials, printing with high pass ink can make the patterns clear and the lines delicate; If it is a large format printing, a lower PASS can be used for printing. This requires technicians to set and print PASS for different materials based on their actual experience.

### Reason 3: Substrate

The transparency, glossiness, smoothness, and other characteristics of the substrate itself can affect the color of the printed pattern, resulting in a lighter image. In addition, some materials have adsorption and dissolution effects on ink. The original setting of 1x ink volume needs to be adjusted to 2x.

### Reason 4: Ink

The brightness and color intensity of ink itself are also one of the factors that contribute to the light color of printed patterns. Ordinary UV ink has some matte properties and can be replaced with new ink when printing high gloss patterns.