

Making A Photomask Quick Guide:

To see a video on this topic, please visit www.rayzist.com

Whether, you are just beginning or an experienced sandcarver, you should know that a good quality film print is key to processing a superior photomask. Although other factors may be involved, it all begins with clean black and white art with no grey image areas.



1

Create and print your design.

You'll start by creating your artwork (using your preferred design software), and then printing out that artwork onto an approved film print such as; Rayzist UV Vellum, Laser Film or Ink Jet Film.

- Check your film prints density by holding the printed artwork up to your exposure light. If you can see the bluish light through the black printed area, you can expect longer, more stubborn wash time.
- You can darken the density of your film print by applying Magic Dark™ Toner Repair Solution. It is suitable for use on film prints created by most monochrome laser printers and can not be used on prints created by inkjet or color laser jet printers. For more information or to see a video on Magic Dark™ Toner Repair Solution log onto: www.rayzist.com

2

Expose your design.

Photoresist film is light sensitive, be sure not to handle your film in direct sunlight.

- First, Place the glossy photoresist film glossy side down, blue matte side up onto your Letralite blanket.
- Second, Place your film print ink side down on top of the blue matte side of your photoresist film and roll one end of the edges of the Letralite blanket the around the clear cylinder and expose for no longer than 25 seconds. Exposure time is for Letralite users only.
- At this point, you have the option of storing your exposed photomask before washing it out. To avoid re-exposure, place the photomask inside your lightproof bag and store it in a cool, dry place.

3

Wash with pressurized water.

- Secure the exposed blue matte side up to the white washout board with magnetic strips.
- Using your Rayzist hand sprayer and warm to hot water, begin washing your film with even strokes starting at a distance of 1-2" and no farther than 4". Your image will become more visible as the white of the washout board appears, revealing your artwork. Wash times will vary depending on sheet size and mil thickness however; you can expect to see results within 60 seconds.

4

Dry, Apply and Remove.

- Dry the washed out photoresist sheets by hanging them up, laying them flat or by placing them in the Premier™ film dryer. Drying times vary depending on room temperature, sheet size and mil thickness. Once dry and moisture has evaporated from your photoresist film you have the option of using Rayzist paper to protect your photomask for later use or you can continue and apply.
- Apply the dry photomask to your surface, beginning at one end with a plastic burnishing tool to the opposite end firmly apply pressure and repeated sweeping motions securing the photomask to the surface.
- Once the photomask is secure remove the clear plastic carrier from the photomask by flicking the corner of the photomask this will help loosen the carrier from the photomask making removal easy. (To release trapped air pockets we recommend you simply roll over the photomask using the Rayzist wire wheel brush)

Your photomask is now complete.

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