

PEL UV CURE UNIT

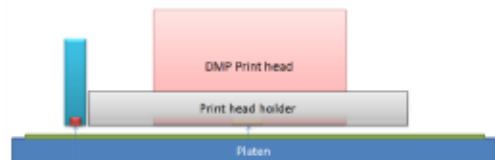


UV cure system for DMP 2800 series

Using high power LEDs attached to a bespoke 3D-printed heatsink, the PEL UV cure unit is our solution to enhancing a standard DMP inkjet printer to give it inline UV pinning or curing capability. The system has been designed specifically as a lightweight curing solution for the Fujifilm Dimatix DMP 2800 series, as it requires no external modifications to the DMP and operates concurrently with the standard Dimatix software.

IN-LINE CURING SOLUTION

The UV head mount position has been designed to sit behind the DMP inkjet nozzles. Compatible inks can be cured directly after printing, line by line.



ADJUSTABLE POWER

The intensity of the UV light can be manually altered, in response to the speed and length of a given design. This can be important to prevent detrimental effects of over/under curing.



SINGLE & DUAL WAVELENGTH

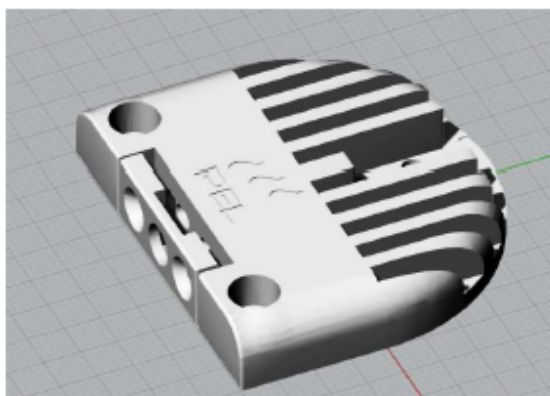
Some customers need a single wavelength for curing. Others require the flexibility to switch between different UV wavelengths. PEL offers the curing unit with the option for both single and/or dual LED mounts.



UV cure system

3D PRINTED METAL HEATSINK

The heatsink used for this product is built using additive manufacturing techniques. The device has been ergonomically designed to fit directly onto the DMP inkjet head bracket. The printed part includes a hollowed centre to reduce weight, a 2 mm inside wall to provide strength and printed flanges to improve heat-loss by increasing the area of exposed metal.

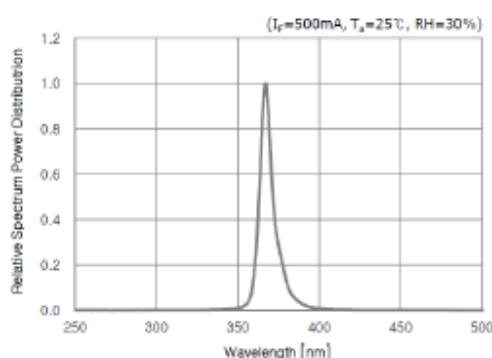


STANDARD & HIGH-POWER LED

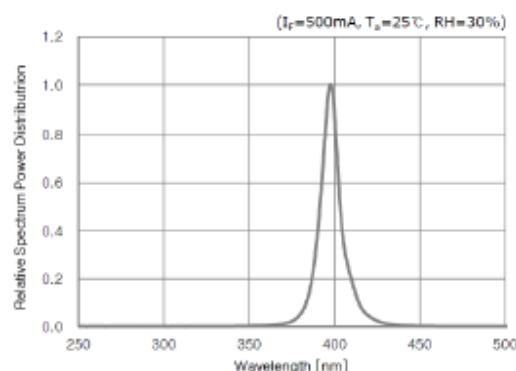
PEL supplies wavelengths in the UVA Band:

365, 375, 385, 395, 405 nm and custom.

These can be supplied as single or multi chip packages depending on your necessary curing requirements.



The spectral plots for 365 & 395 nm respectively have been provided and are among the most common curing wavelengths we currently provide to both companies and research institutions.



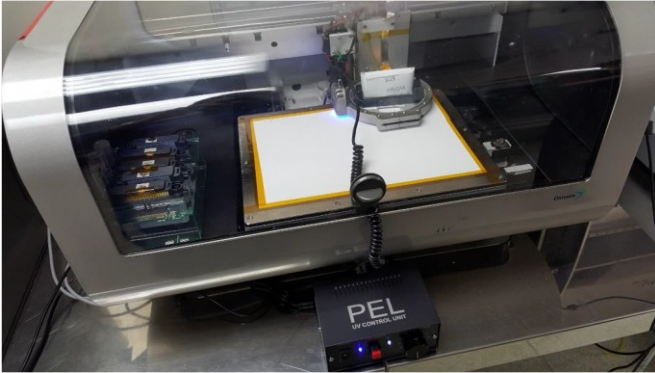
BESPOKE WAVELENGTH AVAILABLE

Customer requests for curing wavelengths not shown above will be considered. Examples of unique solutions provided include high blue (470 nm) and UVB bands (285, 300 nm).

Please contact us with your requirements and we will provide more information

UV cure system

Available equipped Material Printer (DMP-2831,2850)



Three dimension structure with UV ink.

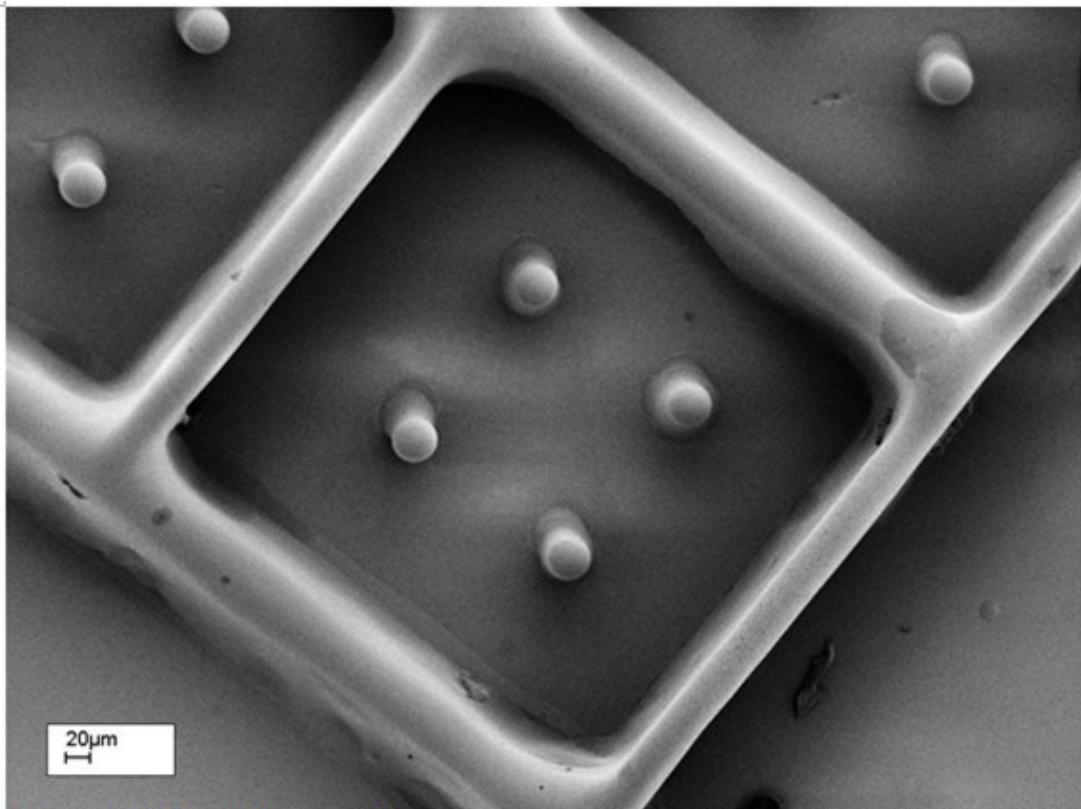


Figure 2. Dam structures on paper