

UV LED-Exposure frame (A3 size) - version 3 /MAY 2023

We have primarily designed this specially built UV exposure frame for UV-exposure of photopolymer plates and photopolymer films, which are used by printmakers and photographers for photogravure and other graphic intaglio techniques. It is designed to provide an efficient and uniform UV-exposure of photopolymer plates in all formats up to A-3 size, and it can also be used for UV-exposure of photopolymer films and photo emulsions for alternative photo processes, such as cyanotype, agyrotypes, salt prints, palladium prints etc.

All these techniques require exposure to UV-light with a wavelength of 365 nm. The UV exposure frame is equipped with a total of 430 LEDs distributed in 2 circuits over an area of 42 x 30 cm. It is precisely what is needed to achieve a uniform exposure of a photopolymer plate of up to A3 size

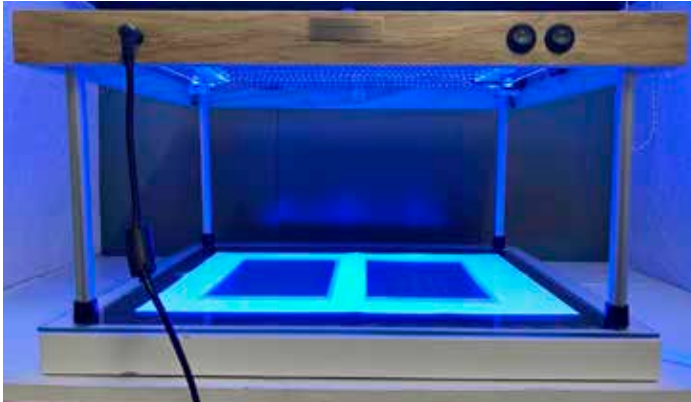


Photo 1: Double Exposure on top of our vacuum frame

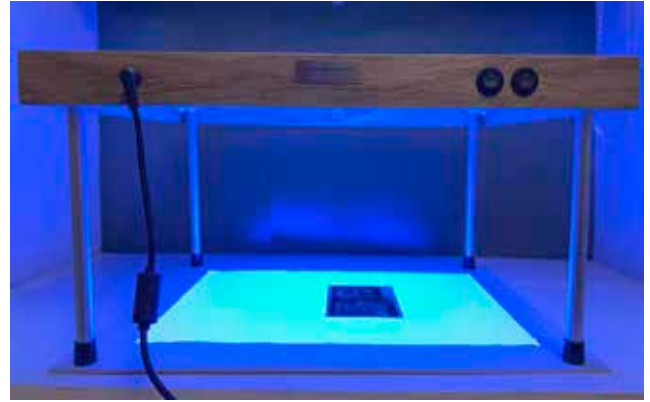


Photo 2: Direct to Plate-Exposure



Foto 3: Front panel

Photo 4: 12 Volt Power Supply connection

LOW intensity: ON+OFF HIGH intensity: ON+ON



Photo 5: Mode: OFF+OFF



Photo 6a: Mode: ON+OFF



Photo 7a: Mode ON+ON



Foto 6b: ON+OFF

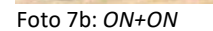


Foto 7b: ON+ON

Exposure mode: LOW intensity

The setting "LOW" (left switch in "ON mode" / right switch in "OFF mode") ensures a uniform exposure of the entire plate, which can be difficult to achieve with very short exposure times, because the intensity of the light tends to fall towards the edges. This setting ensures longer exposure times for accurate calibrations. It is e.g. important to exposure and calibration of optimal exposure times for photopolymer plates and photopolymer films.

Exposure mode: HIGH intensity

The setting "HIGH" (left switch in "ON mode"/right switch "ON mode") ensures a short and relatively uniform exposure, which is useful for exposure of photo emulsions (cyanotype, agyrotypes, salt print, palladium print, etc.) and techniques, where long exposure times are involved and accuracy is not critical like curing or hardening of photopolymer plates and films.

Dimensions and other things

With: 42,5 cm | Length 52,5 cm | Height 4 cm | Weight 1.9 kilo

The exposure frame is equipped with 4 removable legs of 25 cm - (see how to mount them in the video on my website)

The included power supply is 12 volts.

Safety

Remember to wear UV safety glasses during use.

Design: Henrik Bøegh | Mikkel Pedersbæk

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