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INVESTIGATION OF THE SILVER PARAMETER AND THE TRANSFER CURVE OF THE SALTED PAPER ALTERNATIVE PROCESS

Photographers usually choose a recipe for their artistic purposes from the many experimented ones of the past 150 years. Unfortunately, these recipes describe only the dilution of the solutions, but do not give a guide how much shall be used for the optimal result for a unit size surface. Besides, each of the transfer processes have a cumulative mapping distortion of the image transfer steps. We have already found the optimal volume of the salt solution and we published the results in an article. The aim of this paper is to describe the salted paper technique and to seek the optimal volume of the silver solution for creating proper prints. This article will review the saltprint alternative process, the available large form negative types, the used machines and what we can expect from the result. By having the optimal salt and silver volume, we determined the transfer curve of this process. The final goal is to create a software, that is able to produce the inverse of the mapping error. By using this inverse function, the original picture can be predistorted in order to make the desired linear transfer of the image onto the paper. Later on, it will be essential to test the different paper types, the amount of UV light and the effect of arrowroot gelatin layer or toners on contrast.

Keywords: image transfer, transfer curve, inverse function, linear transfer, salted paper, alternative processes, UV light