

# Crosscorrection Dongle V 1.07 für IBM Xeikon



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non-new

CROSSCORRECTIE  
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### **Introduction**

Crosscorrection is a means to improve the print quality, especially to improve the uniformity across the web. Non uniformities across the web can also be caused by unfocused LED-Arrays or local LED-Array unevennesses. These can not be corrected by the crosscorrection. Therefore it is strongly recommended to solve these problems before proceeding with the crosscorrection. The Local LED-Array unevennesses can be corrected by means of the LED-Correction procedure.

### **How does the crosscorrection work?**

By accurate measuring of the densities on a test sample, adjustments can be applied per LED. These adjustments result in a new LDA-File.

Essential to this correction is the response of the density in function of the LED-Array exposure.

The densities of all test samples are measured with the scanner. Now the 3 points of the curve "Density" = f (LDAexposure)" are defined. A curve fitting algorithm calculates the straight line through these 3 points and the correlation factor. The straight equation is called the calibration. Such a calibration is calculated for every color on X- and Y-side. The correlation factor is a first indication of the possible correction quality. If this factor is lower than 0.8, the calibration will be rejected since this results in a poor correction.

The scan and correction operations are done on the crosscorrection platform. When the crosscorrection is finished, new .evn files are generated which have to be installed again on the printing engine.

The crosscorrection procedure contains the following operations:

- Preparation of the DCP-1
- Printing of the testsamples
- Scanning the testsamples, Correction preparation and Correction calculation
- Installation of the corrected LDA-files

The crosscorrection software allows you to correct those LDAs you select without affecting the existing correction on the other LDAs.



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