Camera Calibration Instructions for *Ngenuity* Scanners

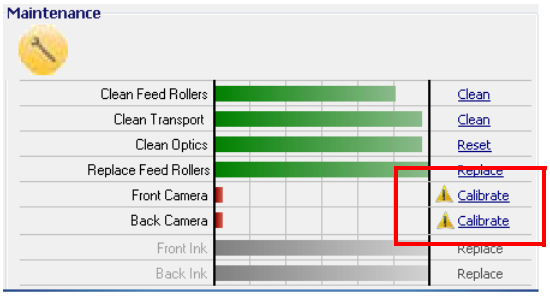
Camera calibration is important for maintaining consistent image quality and should be performed periodically in order to maintain optimum white balance and camera levels. The scanner's maintenance LED or the NOU on the Maintenance screen will indicate the need for camera calibration.

It is recommended that you always calibrate both cameras together, although they can be calibrated independently. Calibrating both cameras takes approximately 4-7 minutes.

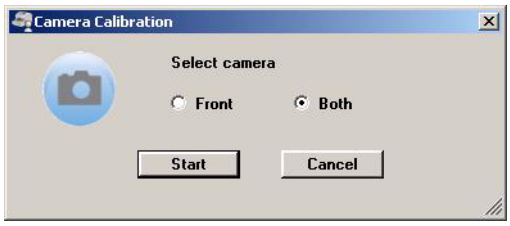
Before calibrating the camera(s):

- Clean the scanner optics thoroughly. See the User's Guide for procedures.
- Make sure the scanner is running in Ready mode (not in Sleep mode) for at least 5 minutes prior to calibrating.
- Shut down any other scanning application connected to the scanner.

1. Open the Ngenuity Operator Utility and establish communication with the scanner.
2. Click on one of the *Calibrate* links in the Maintenance section of the NOU Home screen.



The Camera calibration dialog box will be displayed.



3. Click **Both**, and then click **Start**. The message, ***Lift skimmer, then manually feed the calibration sheet into scanner*** will be displayed.
4. Lift the skimmer and make sure the feeder tray is empty. The scanner will automatically go into Manual Feed Mode, the feeder table will rise and the transport will begin to run.
5. Once the feeder table has risen to the full-up position, feed a single, clean white calibration sheet (Part No. 5K0449 from CAT No. 199 8103) into the scanner transport in the orientation indicated on the sheet. A counter and a progress bar will indicate the calibration progress.

   NOTES:

   - Do NOT open the scanner cover, shut down the scanner or host PC while calibration is in progress.
   - If the calibration target is hard to insert, remove the pre-separation pad before calibrating.
6. When the calibration function has completed all steps successfully, a confirmation screen will be displayed.
7. Click **Close**. The calibration sheet will be automatically ejected from the scanner.

NOTE: If the confirmation screen states that the calibration was unsuccessful, turn off the scanner, close the NOU and recheck the scanner's optics. After cleaning, inspect the imaging guides for contamination, excessive scratches or gouges, or dirt that has not been removed by normal cleaning. Also inspect the camera glass for dirt or damage, and inspect the calibration sheet for dirt or dark marks. Inspect the LED arrays to verify all the LEDs are operational. Then try the calibration again. If the calibration is unsuccessful a second time, contact Kodak Technical Support.

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