

DADF Document Positioning - Image Input Terminal

DADF Document Positioning

The events described in this section apply only if the document original is placed on the platen by the DADF. These events are as follows:

1. The user places the originals in the DADF, and presses the Start key on the User Interface.
2. The DADF places the first document original on the platen. While moving the document, the DADF determines the document's Slow-Scan (X or Left-Right) and Fast-Scan (Y or Front-Back) dimensions.
3. The Exposure Lamp is lit and the Full-Rate Carriage moves to the Start Position associated with higher magnification values. This is 15 mm to the left of True Reference Position.
4. White Variation Correction is performed.
5. For magnifications between 97.2% and 400%, the Full-Rate Carriage doesn't move; it is already at the appropriate Start Position. However, if the magnification is between 25% and 97.1%, the Full-Rate Carriage moves leftward 20 mm to a different Start Position. This permits the carriages more distance in which to accelerate.
6. The Full-Rate Carriage scans at a rate determined by the magnification for a distance determined by the document original's Slow-Scan dimension. While scanning, the document original is examined for color content.
7. The Exposure Lamp is shut off.
8. The Full-Rate Carriage returns to the high magnification Start Position, 15 mm to the left of the True Reference Position.

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DADF Document Positioning (continued)

9. The DADF removes the current document from the platen.
 - If there are no more documents in the DADF and the time interval since the most recent AGC/AOC/Shading readings are less than a threshold value stored in the NVM, the Full-Rate Carriage moves to the Home Position.
 - If there are no more documents in the DADF, but the time interval since the most recent AGC/AOC/Shading readings is greater than the threshold value, then the Xenon Lamp is lit for 2 seconds, and the Post-initialization AGC/AOC/Shading Operations and Carriage Motions are repeated. At the end of these operations, the Full-Rate Carriage goes to its Home Position
 - If there are more documents in the DADF, then the DADF places the new document on the platen. When the IPS PWBs indicates that they are ready to receive scan data, the Exposure Lamp is lit and White Variation Correction is per-formed. Depending on the magnification rate, the Full-Rate Carriage may remain stationary or move to the low magnification Start Position. In either case, it then scans at the rate dictated by the magnification rate.

Steps 7. through 9 are repeated until the DADF Input Tray is empty.