DADF and IIT Interaction

The DADF detects the size of each original document while the document is fed from the input tray onto the platen glass. The Fast Scan or Y dimension is determined by the Front and Rear Size Sensors located just before the Registration Roll in the paper feed path. The Slow Scan or X dimension is determined by measuring the length of time that Registration Sensor is blocked for a known transport speed.

These dimensions are passed from the DADF Control PWB to the IPS PWBs using their serial communications link. The Pre-IPS PWB compares these values with the contents of a lookup table in its NVM. This measurement technique reduces the delay between the document's arrival on the platen glass and the start of document scanning.

Front and Rear Size Sensors

Registration Sensor