

ScanFlo Premier

About ScanFlo

SunRise microfilm scanning systems, are multi-format modular scanners, supporting rollfilm, microfiche and aperture card microfilm. ScanFlo Premier is the software supplies with these systems. As the name ScanFlo suggests, it provides continuous scanning of microfilm, as opposed to a manual operation of individual images.

ScanFlo Premier controls: movement of the microfilm, light adjustments, image capture, digitization, image processing and saving of image files based on user preference. Files may be written to internal hard drive, CD/DVD recorder, an external storage device, or a network server. The current version of the application is called ScanFlo Premier. It runs under the Windows 7 operating system, on an embedded PC system, integrated in the SunRise scanners. As with the earlier versions of Scanflo, the key functions of Premier application are:

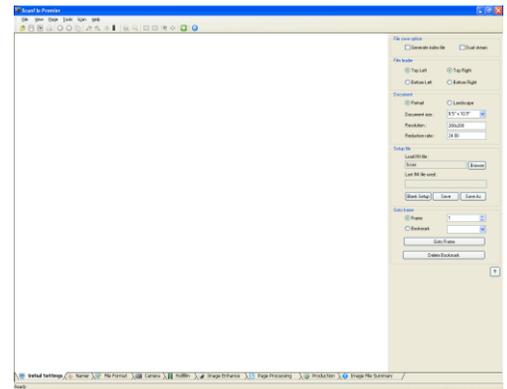
- Setup of scanning for all types of modules (DPI, Reduction ratio etc)
- Setup of automatic Segmentation of the images into pages
- Real-time scan of microfilm, for all types of microfilm
- Conversion of scan images to digital data files
- Indexing (Naming) of the image files

Premier interacts with the user via a series of tabbed dialogs. The User defines values for parameters for the type of microfilm to be scanned. All image capture, image processing and film handing operations are configured based on a preview of the film. Once these settings are established, ScanFlo production scans microfilm in a batch process. The image files are saved in the required format to the specified image file folder.

Since 1991, when ScanFlo and the unique 3-in-1 scanners were first developed by SunRise, Scanflo has continuously evolved to include new concepts, features and enhanced capabilities. Image enhancement functions were options, are now are standard to ScanFlo. New software algorithms have been developed that maximize the power of new hardware and operating system – resulting in higher speed performance and higher image quality.

Some distinctive features of Scanflo:

- Extensive user controlled feature set
- Real-time extraction of images during scan
- QA during scan setup, so no need to rescan
- Real-time image enhancement
- Simultaneous bi-tonal and grayscale streaming
- Adaptive Bitonal thresholding- Image density compensation
- Gamma correction – compensates for grayscale contrast
- High definition grayscale capabilities ideal for scanning historical archived documents, photographs and newspapers



Premiers New Main Dialog

Premier's new look comes from organizing all of the ScanFlo Professional dialog features into one uniform dialog. The new main menu has a SIDEBAR to show parameters, and tabs along the bottom to select major functional groups. Scanflo Professional had all the same requirements, but it organized them as independent dialogs. Premier also has a menu bar, tool bar and status bar. We preserved the old dialog method as "classic mode", and you can switch into classic mode at any time.

Wizard Help

Premier has a wizard mode for each module type to train new users in using a scanner. The status bar shows the scan pages per minute speed and document size.

Initial Settings tab

Set the size of the document you want, the resolution you want and the reduction ratio for the film. Select Dual Stream mode to get a grayscale image for each bitonal image. Scanflo can create an index text file for later reference. The job setup is saved in an .ini file for rapidly selecting all parameters.

Namer tab

The image files are automatically named. This is easily done by the Namer. Predefined two letter codes for specific naming methods: BN is batch number, BL is batch label etc. Codes for each batch parameter, page processing feature, Date and time, Blips, scan parameters and module parameters can be used to create automatic indexing.

File Format tab

Image files format can be compressed or uncompressed, Grayscale or Bitonal JPEG, TIF, PDF, GIF, J2K. Files can be single images or multipage. Pixel depth can be 1, 4, 8 or 12 bits.

Camera tab

There are two camera modes to work in high speed and high resolution. A 1:1 view of the film is shown so you can check focus. A thumbnail view of the film allows checking the focus. The height of the camera is determined by reduction ratio and DPI, the recommended position is shown with other recommended values for lamp brightness, lens and F-Stop.

Module tab

Each of the three modules has unique scan parameters. For rollfilm the segmentation for the image is based on a detect system. For fiche there are two main segmentation methods COM fiche and Standard (Jacketed).

Image Enhance tab

Gamma correction, image filtering, contrast adjustment, positive / negative film type, and Bitonal threshold settings. Icons on the tabs of the Document clean up parameter show whether the image processing feature is enabled, without having to select the tab.

Page Processing tab

Scanflo's powerful automatic methods use "sub-windows". The sub windows are used to split a duplex image frame into two pages. The sub-window also is used to define blips. A title bar image is a special sub-window type to set the reflective light level. Page processing within a sub-window provides Scaling, Cropping, Rotation, Mirroring, and Deskew.

Production tab

Enter Batch label, batch number, etc. To start a production batch scan simply click on the Start scan button, you will be warned if over-write of the output folder could happen.

