



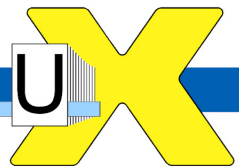
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Janich & Klass

D P U

scanner value pack



DpuScan 4.0

**Special Scanner Options for
AGFA ADMIS S41, ADMIS SC51,
and ADMIS S61**

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Actuality

A more recent version of the scanner options for DpuScan may be available for download from the Internet. Therefore, it is recommended that you compare the version by means of the date printed on this page with the version on the Internet. You should use the most up-to-date version.

The actual version of this addition to the DpuScan Reference Manual is found on the web at:

<http://www.jkimaging.com/pdf/scanner-options/options-Agfa51>

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1 Description of the Scanner Options

1.1 Introduction

This documentation is valid for the following scanners:

- AGFA ADMIS S41
- AGFA ADMIS SC51
- AGFA ADMIS S61

You must use the following driver: **jukscsi**

The scanner is connected via a Standard SCSI Board; an ASPI driver must be installed.

This program module was developed to enable setting the special options of the ADMIS scanners S41, S51, and S61. The jukscsi driver from Janich & Klass forwards these settings to the scanner.

These options are set utilizing the following dialog, with two main tabs – one for setting image quality parameters, and one to view AGFA-specific image information.

1.2 AGFA Options

1.2.1 Image Options

NOTE: Not all devices support every option explained in this document.

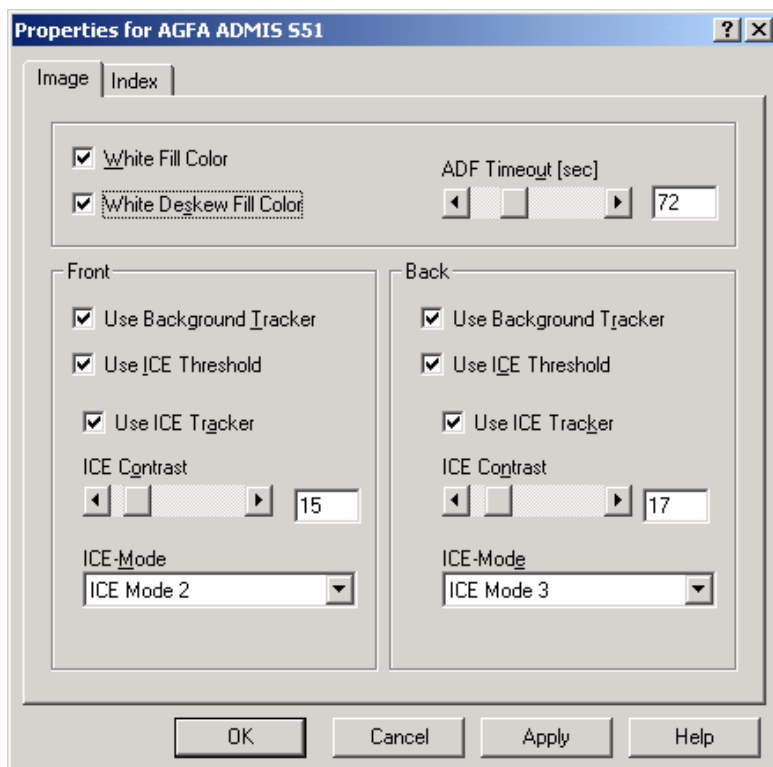


Illustration 1 – AGFA Scanner "Image" Options Tab

White Fill Color

This parameter determines the fill color for missing parts of an image where the image is shorter than the scan window. Such images may appear if border finding and automatic deskew are disabled. With this option enabled, these areas will be filled with white.

White Deskew Fill Color

This parameter determines the fill color for missing parts of an image where the document was fed with a skew. With this option enabled, these areas will be filled with white.

ADF Timeout

Here you can set the "timeout", in seconds, for the automatic document feeder. Enter a value between 1 and 255 in the field provided. Entering a value of zero will cause the scanner to use its default value.

Use Background Tracker

The ICE board also works with a background tracker. It calculates the gray value of the background, using several scan lines.

When enabling the "Use Background Tracker" function, the brightness will be adjusted to the gray value of the background, and is reregulated continuously during several scan lines.

This dynamic adjustment of brightness should be added for mixed documents if their backgrounds have distinctly different colors (white, green, rose, gray, blue, etc.).

This function is only available if the scanner is equipped with an ICE board.

Use ICE Threshold

Here, the user can determine the threshold method; either a fixed threshold will be used to transform a gray shade, or the ICE hardware device will automatically calculate this value.

If the ICE threshold method is enabled, the following options become available.

Use ICE Tracker

Using the **ICE Contrast** function, the contrast sensitivity can be increased dynamically when the background tracker detects darker backgrounds – the darker the gray value of the background, the lower the contrast.

Because black text on a darker background results in a lower gray shade difference, the scanner will react with a higher sensitivity level in cases where this occurs. Therefore, this function is also suited for mixed documents with very different background colors.

ICE Contrast

The contrast determines the threshold level where a to-be-transformed greyscale pixel is no longer interpreted as a white pixel, but as a black one. If the device supports ICE options, the user can select one of 128 levels.

ICE Mode

The ICE mode is a method for despeckling (taking away noise) and border smoothing. More information on this function is available in the respective User's Manual for each scanner.

1.2.2 Index Options

NOTE: These options are only available in the AGFA ADMIS SC51 scanner.

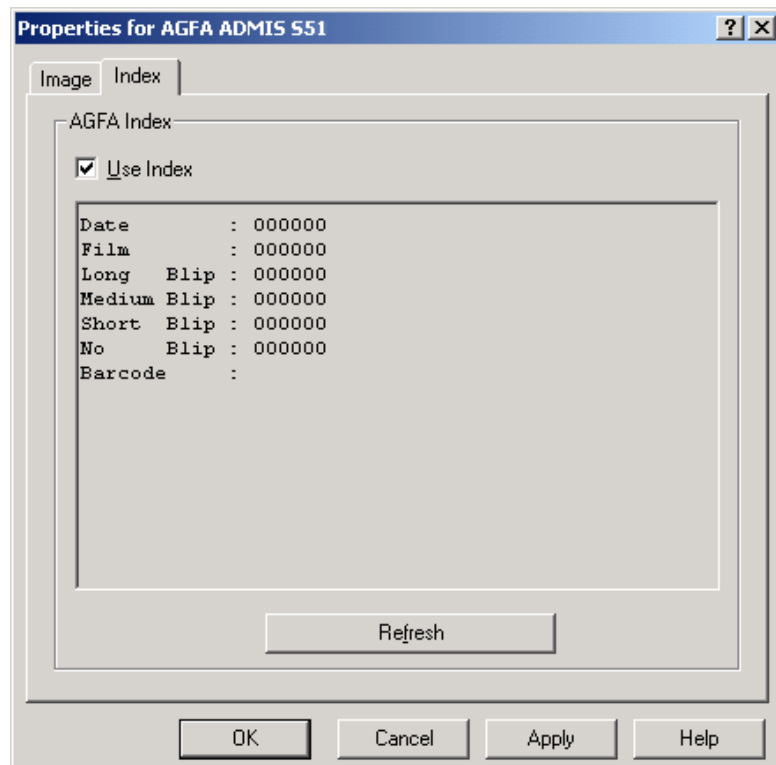


Illustration 2 – AGFA Scanner "Index" Options Tab

Use Index

With this option enabled and an **ADMIS SC51** scanner connected, the user can view Film Roll, Blip, and Barcode values. These values will be inserted into the Image Header, as seen in [Chapter 1.3 – The Image Header](#).

Refresh

You can retrieve the latest header information from the scanner by pressing this button.

1.3 The Image Header

The Image Header consists of text, 512 characters long, that is filled with various image data.

The first 256 Bytes are reserved for a general Image Header, followed by another 32 Byte range for listing the recognition results. Please see the separate documentation of the Image Header (located in the DpuScan Reference Manual) for a closer description of the first 256 Bytes.

The AGFA SC51-specific value range that is updated with the actual values for Film Roll and Blip is covered by Bytes 288 through 369:

		R	e	s	e	r	v	e	d				
000		...	...	...	...	...	...	...	...	...	...	...	256

		B	a	r	C	o	d	e				
257		...	...	...	...	...	...	...	...	...	...	287

D	A	t	e	=		(D)	(D)	(M)	(M)	(Y)	(Y)	
288	289	290	291	292	293	294	295	296	297	298	299	300

L	O	n	g	B	L	i	p	=		(n)	(n)	(n)	(n)	(n)	(n)	
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317

M	E	d	i	u	M	B	l	i	p	=		(n)	(n)	(n)	(n)	(n)	(n)
318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335

S	H	o	r	t	B	l	i	p	=		(n)	(n)	(n)	(n)	(n)	(n)	
337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354

N	O	B	l	i	P	=		(n)	(n)	(n)	(n)	(n)	(n)	
355	356	357	358	359	360	361	362	363	364	365	366	367	368	369

Bytes 257 through 287 (Barcode) are always empty because the barcode search is not driven from within the scanner. This is done on either a driver level or on an application level; software can more easily be adapted, for example, to meet new types of barcode standards.

The Date can be entered as a six-digit number, in any formation; the above example shows the format as day (DD) – month (MM) – year (YY).

Blips refer to rectangular marks of various sizes that are placed next to the images on the microfilm rolls. These marks are set by pressing a key on the scanner.

A microfilm reader uses these marks in order to establish a three-stage index. This corresponds, theoretically, to saving image files in folders, sub-folders, sub-sub-folders, etc.

DpuScan can evaluate the Header using the %K variable. K[311317] (Bytes 311 through 317) holds the LongBlip number, for example.

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