

ScanPro[®] Reference Manual



ScanPro 3500 Shown with All-In-One™ Film Carrier

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Ι.	INTRODUCTION	
1	EQUIPMENT OVERVIEW	
2	2. SCANPRO® WARRANTY INFORMATION	4
3	B. RECOMMENDED COMPUTER SPECIFICATIONS	5
П		6
1	L. UNBOXING THE SCANPRO	
2	2. UNBOXING THE SCANPRO ROLL FILM CARRIER	7
3	3. INSTALLING THE SCANPRO ROLL FILM CARRIER	8
4	I. INSTALLING THE SCANPRO AUTO-CARRIER™	9
5	5. CONNECTING THE SCANPRO TO THE COMPUTER	
III.	SOFTWARE SETUP	
1	L. SOFTWARE INSTALLATION GUIDE	
2	2. Software Updates and Automatic Email Notification	
3	B. CONTROL PANEL AND BIOS SETTINGS	15
4	I. GETTING STARTED	
5	5. CONFIGURING YOUR POWERSCAN SOFTWARE	
6	5. Setup Window: Toolbar Tab	
7	7. Setup Window: Scan Tab	
8	3. Setting up Scan to Email	20
9	9. Setup Window: Printers Tab	21
1	LO. SETUP WINDOW: ADVANCED AS TAB	
1	1. AUTO-Scan QA Settings Window	24
1	12. Setup Window: Options Tab	27
1	13. IMS Settings Window	
1	L4. SETUP WINDOW: ABOUT TAB	
1	15. FILM SELECTION WIZARD	
1	16. How to Change Your Password	
1	17. USAGE STATISTICS	
1	18. Adding a Company Name to the Title Bar	
1	19. Installing a New License Key	
2	20. How to Change the Names on Toolbar Buttons	
2	21. How to Change the Mouseover Tooltips for Toolbar Buttons	40
2	22. AUTOMATIC ROLL FILM SCANNING: AUTO-SCAN & AUTO-SCAN PRO	41
2	23. Automatic Roll Film Viewing: AUTO-Review	44
2	24. AUTO-CARRIER SOFTWARE – AUTOMATIC FICHE SCANNING	45
2	25. IMS Pro – Single Level Blips	
2	26. IMS Pro – Two Level Blips	52
2	27. IMS Pro – Three Level Blips	56
IV.	ROUTINE CARE	
v.	TROUBLESHOOTING TIPS	61
1	L. Scanner Not Found Errors	61
2	2. Software Runs Slow	61
3	B. FILM/FICHE ADVANCE MOVEMENT ISSUES	61

I. Introduction

1. Equipment Overview

*For the latest information, please reference <u>www.e-imagedata.com</u>

AlO Desktop Footprint: (H x W x L) 7.5in x 17in x 19in / 19cm x 42.5cm x 45.5cm Operating Systems: Versions, 32 & 64 bit: Win 10; Editions: Enterprise, Professional, Home Interface: USB 3.1 Gen 1 (also called USB 3.0) Weight: 32lb / 14.5kg Power: 100-240VAC 50/60Hz Film Path: Straight film path minimizes wear (film not pulled across glass edges) Energy Efficiency: ENERGY STAR® Certified Product Safety: Certified to UL/CSA standards Warranty: 3-Year factory warranty (includes carriers)

EQUIPMENT FEATURES:

Optical Zoom Range

ScanPro 3500 (and i9500): 5x to 105x optical zoom range, highest in the industry ScanPro 2500: 5x to 32x optical zoom range

Camera resolution

ScanPro 2500: 6.6 megapixel camera

ScanPro 3500 and ScanPro i9500: 26 megapixel camera using a 6.6 megapixel sensor and pixelshifting technology to capture and integrate four images, the clearest image in the industry.

PowerScan[™] Software Features – See latest equipment brochure for a complete list.

Customizable interface for all controls

Film Selection Wizard: Automatic scanner set up

FOCUS-Lock: Focus is maintained at all times

OCR (powered by ABBYY[®]): Creates word searchable PDFs

Automatic microfilm scanning (unlimited): All models except ScanPro 2500

Rotate 90 degrees: Clockwise or counterclockwise

Mirror Image

Brightness and Contrast

Scan Mode: Enhanced greyscale, bi-tone selectable

SPOT-Edit[™]: Edits selected images and text, except ScanPro 2500

Cropping: Custom (scissor snipping), automatic, manual

Straighten: Automatic, line-straighten, manual

Film Type: Positive, negative, opaque

One Click buttons: Print, HD, CD, USB, e-mail, cloud storage

Auto-Adjust: Brightness, contrast, straighten, crop

OPTIONS

ScanPro Advantage (SPA) Membership:

AUTO-Scan[®] Pro: Adds high-speed scanning

PowerScan[™] Productivity Suite: INFO-Link[™], WORD-Search[™], Copy-to-Clipboard, Word searchable PDFs (multi-page)

AUTO-Carrier[™]: Adds automatic microfiche scanning and higher roll film scanning speeds (SPA required)

2. ScanPro[®] Warranty Information

- Items Covered: The e-ImageData factory service warranty covers the ScanPro Microfilm Scanners, Roll Film Carriers, AUTO-Carrier, their parts and assemblies.
- **Length of warranty**: Term of warranty is three (3) years from the date of shipment from the manufacturer's factory or warehouse. Equipment serial numbers and proof of purchase is required. The ScanPro film illumination light source is warranted for the useful life of the scanner or twelve (12) years.

Products and items resold by the manufacturer are warranted by the original supplier. The warranty terms and warranty registration materials are included with each item. It is the responsibility of the end user to complete the documentation and to contact the supplier for follow-up service and support. Products in this category, but not limited to, are computers, computer accessories, laser printers and monitors.

Limited warranty: The manufacturer's sole obligation shall be, at the discretion of the manufacturer, limited to the repair or replacement of parts or products manufactured by e-ImageData and which are determined by the manufacturer to be defective within the applicable warranty period. Replacement product or replacement parts may include remanufactured or refurbished parts or components. Defective items must be returned to the manufacturer only after return authorization is obtained from the manufacturer, with shipping and handling charges prepaid.

THE LIMITED WARRANTIES CONTAINED IN THIS AGREEMENT ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY REGARDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, RELATING TO THE USE OR PERFORMANCE OF THE PRODUCTS. THE MANUFACTURER WILL NOT BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE (UNLESS CAUSED SOLELY BY THE MANUFACTURER'S NEGLIGENCE) LOSS OF PROFIT OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCTS.

This limited warranty does not extend to any product which has been subject to misuse, neglect or accident, damage caused by the use of supplies or parts not technically satisfactory, repairs or modifications not approved by the manufacturer. This limited warranty does not apply to the following: damage caused in shipping, glass breakage, lamps or supplies which requires periodic replacement due to normal use or wear. The manufacturer does not assume responsibility for consequential damages of any nature and shall not be liable for damages resulting from malfunctions or interruptions in the operation or function of the manufacturer's products.

3. Recommended Computer Specifications

The Dell OptiPlex series of computers has been a reliable computer for the last 13 years in the setup and test of the ScanPro products. They have consistently provided excellent performance.

ScanPro® 2500 Minimum Recommended Computer Specifications

Processor Speed Intel[®] Core[™] i5 Computer Memory (RAM) 8GB Memory Hard Drive 500 GB HD Monitor VGA/SVGA/XSVGA Compatible Operating Systems (32bit and 64bit) Win 10 Computer-to-Scanner connection USB3 required

ScanPro® 3500 Minimum Recommended Computer Specifications

Processor Speed Intel® Core™ i5 or i7 Computer Memory (RAM) 8GB Memory Hard Drive 500 GB - 1TB HD Monitor VGA/SVGA/XSVGA Compatible Operating Systems (32bit and 64bit) Win 10 Computer-to-Scanner connection USB3 required

ScanPro[®] i9500 Minimum Recommended Computer Specifications

Processor Speed Intel[®] Core[™] i7 Computer Memory (RAM) 8GB DDR3 Hard Drive 750 GB SATA, 10,000 RPM 3.0Gb/s Hard Drive with Data Burst Cache[™] Monitor VGA/SVGA/XSVGA Compatible Operating Systems (32bit and 64bit) Win 10 Computer-to-Scanner connection USB3 required

Recommended Computer Specifications when using ScanPro Advantage Membership features: AUTO-Scan[®] Pro, PowerScan[™] Productivity Suite, and AUTO-Carrier[™]

Recommended Computer System for Scan Speeds up to 20 Images per minute Processor Speed Intel[®] Core[™] i5 or i7 Computer Memory (RAM) 8GB DDR3 or Higher Hard Drive 500 GB HD or Higher

Recommended Computer System for Scan Speeds up to 100 (70 for Jackets) Images per minute Processor Speed Intel® Core™ i7 Computer Memory (RAM) 8GB DDR3 or Higher Hard Drive 750 GB - 1 TB SATA, 10,000 RPM 3.0Gb/s with Data Burst Cache™ or higher, 1TB SSD

These general *minimum recommended* requirements should be followed to ensure proper performance.

II. Installation Guide

Please check out our videos for easy unpacking and installation: www.e-imagedata.com/scanpro-software/

1. Unboxing the ScanPro

- a. Cut the tape and open the outer flaps.
- b. Remove the *Accessories Box* and all Items that are inside. *Figure 1*
 - 1. Power supply for the ScanPro.
 - 2. Power cord connects the power supply to local voltage.
 - USB 3.1 cable that connects the ScanPro to the computer's USB 3.1 port.
- c. <u>Important</u>: Software and license keys are no longer included in the packaging. Find them on the web at: <u>www.e-</u> <u>imagedata.com/scanpro-software</u>
- d. Cut the tape on the inner shipping box and open the inner box flaps.
- e. Remove the left and right inserts. *Figure* 2
- f. Grasp the scanner with fingers extending under the top cover and lift the scanner out of the inner shipping box. *Figure 3.*
- g. Place the scanner on a sturdy level surface. Remove the protective plastic bag, the tape on the fiche carrier, and the foam pad between the glass.
- h. Remove the shipping retaining screw by rotating it counterclockwise. Feel free to discard the retaining screw.
- i. See *Figure 4* for port locations.



Figure 1



Figure 2



2. Unboxing the ScanPro Roll Film Carrier

- a. Cut the packing tape and open the outer box flaps.
- b. Lift and remove the top retaining cardboard. *Figure 5*
- c. Remove the Roll Film Carrier (1), instructions (2), and accessories package (3). *Figure 6*
- d. Accessories included:
 - 1. Mini-Din connector cable. Figure 7
 - 2. Bag of screws and star washers to fix the roll film attachment to the ScanPro and aid in static electricity mitigation. *Figure 8*
 - 3. Combination 16mm and 35 mm take up spool. Allen wrench included to tighten the set screws of the take up spool to prevent removal from the roll film attachment after installation. *Figure 9*

top retaining cardboard









Figure 6





Figure 7

Figure 8



3. Installing the ScanPro Roll Film Carrier

- a. Note the locations of the *roll film retainer holes* (both sides) on the ScanPro *carrier support brackets. Figure 10*
- b. Lift the roll film carrier by the sides so that the retainer pins can be held in the extended (outward) position.
- c. Lower the roll film carrier so that it rests on the carrier support brackets with the retainer pins and retainer holes aligned. *Figure 11*
- d. When the retainer pins are aligned with the retainer holes, the retainer pins will snap into the retainer holes, locking the roll film carrier in place (adjust the position of the roll film bracket on the carrier support brackets as necessary).
- Using a Phillip's head #1 screwdriver, install the 4 screws and star washers to lock the roll film to the base.
- f. Connect the 8-pin Mini-Din cable into the back of the roll film carrier and the back of the scanner. Make sure the cables are aligned properly. *Figure 11*
- g. Film guide roller assemblies can be adjusted for either 16mm or 35mm film. Move the white roller sleeve to the appropriate location for the film you will be using. *Figure 12*



ROLL FILM RETAINER HOLES (BOTH SIDES) CARRIER SUPPORT BRACKETS (BOTH SIDES)

Figure 10



ROLL FILM MINI DIN PORTS

Figure 11



4. Installing the ScanPro AUTO-Carrier[™]

- a. Unpack the ScanPro AUTO-Carrier from the packaging. Items included in the box shown in *Figure 13*.
- b. Move the ScanPro fiche carrier to the extreme left. *Figure 14*
- c. Note the lead screw and the 2 mounting screws extending from the AUTO-Carrier. *Figure 15*
- d. Note the circular opening of the follower assembly. *Figure 16*

<continued>



Figure 13



Figure 14





Figure 16

- e. Note the 2 threaded holes of the carrier support bracket. *Figure 17*
- f. Position the AUTO-Carrier to the left of the ScanPro. *Figure 18*
- g. Rotate the lead screw by hand clockwise to thread the lead screw into the circular opening of the follower assembly. Continue to rotate the lead screw until the AUTO-Carrier is within a few inches of the ScanPro.
- h. Push the AUTO-Carrier against the side of the ScanPro. *Figure 19*
- i. Use the included 7/64-inch T handle hex (Allen) wrench to thread the 2 drive assembly mounting screws into the threaded holes of the carrier support and tighten. *Figure 19*
- j. Manually move the fiche carrier front to back and left to right to make certain that nothing is interfering with this movement. The motors of the AUTO-Carrier will resist this movement, but it should move smoothly.
- k. Connect the double cable assembly. The cable will only fit one way. Make sure that the connectors are aligned properly to prevent damage. *Figure 20*
- I. It is recommended that the USB 3.1 cable be routed under the double cable assembly. *Figure* 20



Figure 17



Figure 18



Figure 20



5. Connecting the ScanPro to the computer

- a. Connect the ScanPro to the computer using the included USB 3.1 cable (see *Figure 21*). This cable meets all the specifications for this type of connection and is strongly recommended you use only this cable.
- b. Connect the AC/DC Power Adaptor to the ScanPro and local AC power Source as shown in *Figure 21*.
- c. If there is a motorized Roll Film Carrier installed, connect the Mini-Din Cable as shown in *Figure 21*. If there is also an AUTO-Carrier installed, connect the Dual Mini-Din Cable as shown in *Figure 22*.



Figure 21



III. Software Setup

1. Software Installation Guide

- a. Important notes
 - 1. All users require read/write privileges to the relevant PowerScan Folder to operate the ScanPro.
 - 2. Software media is no longer included in the box. At any time, current software can be downloaded for FREE, from the website: <u>www.e-imagedata.com/scanpro-software</u>
 - 3. All scanners come with a 6-month trial version of the ScanPro Advantage membership (from the date of purchase). The key can be downloaded from the software download page.
- b. Best practices
 - 1. Log into the computer as the Local Administrator.
 - 2. Disable User Account control before installing software or connecting the scanner.
 - 3. Disable the Anti-Virus program for installation. After installation, add the PowerScan xxxx folders to the exceptions list of your Anti-Virus program.
 - *i.* C:\ProgramData\PowerScan xxxx
 - *ii.* [64-bit] *C:\Program Files (x86)\PowerScan xxxx* or [32-bit] *C:\Program Files\PowerScan xxxx*
 - 4. Ensure that the most current USB 3.1 drivers are installed
 - 5. Ensure that the computer has all the Windows updates installed.
 - 6. Install the software before connecting the scanner to the PC.
- c. Installing the software
 - 1. **IMPORTANT**: DO NOT connect the ScanPro at this time.
 - 2. **IMPORTANT**: Exit all programs before installing the software.
 - Open the web browser and navigate to the e-ImageData Software page. <u>www.e-</u> <u>imagedata.com/scanpro-</u> <u>software</u>
 - Select the appropriate ScanProversion from dropdown list. Then click DOWNLOAD. Figure 23. If prompted, choose to save the file, not run.
 - After the software zip file finishes downloading, open the downloads folder (ctrl + J), or the specified save location. Disable the Anti-Virus now.
 - 6. Right click on the zipped folder, then click *extract all*. *Figure 24*









- 7. In the next window that appears, click *extract*. The files will automatically be collated into a new unzipped folder with the same name and location as the zipped folder, unless otherwise specified here. Leaving the *show extracted files when complete* box checked, will automatically open a new folder showing the extracted files. *Figure 25*
- 8. In the unzipped folder, right click on the *setup.exe* file and choose *Run as Administrator*. Then follow the on-screen instructions to install the software. *Figure 26*
- Connect the ScanPro to the computer using the USB 3.1 cable provided.
- Turn the ScanPro ON. The switch is located in the rear (base) of the ScanPro. A message will appear indicating "searching for the driver" - wait until the driver installs and another message will appear – ScanPro ready to use (this might take a couple of minutes).



Figure 25



2. Software Updates and Automatic Email Notification

Software updates are no charge for the PowerScan software throughout the life of the product except the ScanPro Advantage Membership license.

New software and firmware updates for the ScanPro series can be downloaded from the manufacturer website for free. Go to the e-ImageData website http://www.eat imagedata.com and select Software. (Figure 27) Please be sure to select the correct ScanPro model when clicking on the software Download button. It's important to read the Best Practices (Section III.1.b) information first. To back up the settings folder (C:\ProgramData\Powerscan xxxx\Settings), copy it to the PC Desktop (or other convenient location) before installing the new software. After the software installation is complete, replace the newly installed default Settings Folder with the saved folder. Add any new features you want to use from the Setup Screen.

NOTE: The latest software versions have a *Check for Updates* button tab in the *Setup Window* on the *About Tab*. Clicking on this button will open the webpage if the PC is connected to the Internet.

Automatic Email Notification

Scroll to bottom of the Software Downloads webpage to see a form for automatic notifications when new software is released. *(Figure 28)* Fill out the form and click the *SUBMIT REQUEST* button. Whenever new software is released an email notification will be sent.



A	*All form fields are required		
\simeq	First name	Last name	
Sign up to receive software update notifications	Email	Phone number	
Complete the form provided to receive an	Organization	Select country:	
email when new software updates are available for download.	SUBMIT REQUEST		

3. Control Panel and BIOS Settings

Control Panel Settings:

- a. Go to the Control Panel *Power Options* settings. Set the computer to *never* goes to sleep. *Figure 29*
- b. Check the USB Power management settings. Make sure all the USB 3.1 Power Management boxes are unchecked so Windows will not turn off the USB 3.1 port to save power and possibly cause a disconnect problem. *Figure 30*
- c. Many new computers are now set to be "green" by default. Go to the BIOS Settings and check the *C States, S states, and Deep sleep states.* Disable all of these so the computer does not go into a sleep mode. These settings and names may vary from one PC to the next.

Change settings for the Choose the sleep and display se	plan: High perfor ettings that you want y	mance our computer to u	use.	
1 Turn off the display:	1 hour	~		
Put the computer to sleep:	Never	~		
Change advanced power settin Restore default settings for this	gs plan			
			Save changes	Cancel





4. Getting Started

- a. Double click on the PowerScan xxxx icon located on the Desktop.
- b. Select the image in the *Film Selection Wizard* that most closely matches the microform being used.
- c. Insert the film into the film carrier and position the film so that it can be viewed on the PC monitor.
- d. Use the buttons on the toolbar to adjust the image.
- e. For quick reference to the button use, please refer to the "ScanPro Quick Start Guide".
- f. For more information on how a button operates, click the *Help* button followed by clicking on the button in question. A help window will open with more information about that function.

5. Configuring Your PowerScan Software

The PowerScan software can customized via the *Setup Window*. This includes the four completely customizable *Toolbar Menus*: *Home, Adjust, File, Setup* (*Figure 31*), as well as scan to functions and printing presets.

PowerScan Setup Menu

To access the PowerScan Setup window:

- a. Click on the toolbar SETUP tab.
- b. Click on SETUP icon.
- c. A password screen will open.
- d. Enter the *SETUP Window* default password: *1234*

Notes:

- a. The *Setup* button cannot be removed from the *Toolbar*.
- b. The position of the *Setup* button is fixed on the *Toolbar*.
- c. After customizing the toolbars and presets, click the *Save Settings* button.
- d. A NEW PASSWORD IS RECOMMENDED FOR PUBLIC USE APPLICATIONS to prevent the unauthorized modifications to the settings. See "Section III.15. How to Change Your Password" for more details.



6. Setup Window: Toolbar Tab

The *Toolbar* section provides control over the settings needed to customize the toolbar.

Available Controls

A complete list of all controls that can added to the toolbar. Entries highlighted in dark blue are presently on the active toolbar tab and appear in the *Selected Controls* list. Entries highlighted in light blue are presently on one or more of the inactive toolbar tabs. To add a control to the active toolbar *Selected Controls* list, either double click the desired control in the *Available Controls* list or single click the desired control to highlight it and then click the on the *Add* button.

Menu

The toolbar tab that is currently active. Click $\hfill \square$ to change between active tabs.

Menu Name

A text box used to define the name of the active toolbar tab. Click in the text box and type in the desired name for the tab. This happens in real time. Ensure that the new name fits on the tab.

Selected Controls

List of controls that are currently on the active toolbar tab. To remove a control from the active toolbar tab, either double click the control button name in the *Selected Controls* list or single click the control to highlight it and then click the *Del* button. The controls appearing on a particular toolbar tab are arranged in the order in which they appear in the *Selected Controls* list. To change this order, click on the control to be moved in the *Selected Controls* list to highlight it, and then click the *+* to move the control up in the list or - to move the control down in the list. This change happens in real time. Observe the toolbar for exact position.

Button Size

The *Button Size* slider provides control over the size of the buttons as they appear on the toolbar. Drag the slider left or right to resize the toolbar.

Location

A drop-down list to direct where the toolbar is to be located (top, bottom right, left). When *Auto* is selected the toolbar will be located at the left of the screen for landscape monitors or the bottom of the screen for portrait monitors.

Available Controls AC Move AC Move AC Move AC Move AT A Control AC Move AC Move AC Move AC A	Menu: Setup Menu Name: Setup Selected Controls English Restore Settings Save Settings
Line Straighten Auto-Atraighten Auto-Crop Auto-Adjust Zoom Focus Film Opentation Rotate 90° Virror Scan Size Scan Mode Scan Resolution Scan Size Scan Kode Scan Resolution SD Printer #1 JHD Printer #1 JHD Printer #2 JHD Printer #3 JHD Printer #3 JHD Printer #3 DP Oper Multi-Page DCR PDP Single Page DCR PDP Multi-Page PC oper Multi-Page	Add Del
Button Size	+ -



7. Setup Window: Scan Tab

The *Scan* tab provides control over the settings needed to assign file path, name, and file format.

Drive #1/#2/#3

Specifies the file path for *Scan to Drives #1, #2, or #3*. Click the *Browse…* button to open the Windows[™] folder list, navigate to the desired folder, and then click *OK*.

File Prefix

Specifies the prefix used for the file name when the *Save As* box is unchecked.

File Suffix Number

Specifies the suffix starting number used in the file name when the *Save As* box is unchecked.

File Format

Specifies the file format of scans when the *Save As* Box is unchecked. Click \checkmark to reveal the list of available file formats. Click on the desired file format from the list to select it. *Figure 34*

Save As

When the box is unchecked, the scanned files will automatically be saved with the prefix, suffix and file format selected. When the box is checked, the user will be able to select name, file type and location through a dialog box that will open when a *Scan to Drive* button is clicked on the toolbar. The Drive #3 *Save as Window* doesn't allow you to choose a file location. It uses the location set in the Setup Window.

Email

Leave the file path set as %TEMP%. When the *Built-in Mailer* box is unchecked, the PowerScan Software will use the default MAPI Email program installed on the PC such as MS Outlook. When the *Built-In Mailer* box is checked, an email will be sent directly from the software. See the information on "Setting up Scan to E-mail" for Configuration instructions.

Setup		×
Toolbar Sca	Printers Advanced AS Option	ns About
Drive #1:	%systemdrive%\Users\Public\Deskto	op\My Scans\ Browse
File Prefix:	ScanPro	Files Suffix: 0000
File Format:	PDF V	Save As
Drive #2:	%systemdrive %\Users\Public\Deskto	op\My Scans\ Browse
File Prefix:	ScanPro	Files Suffix: 0000
File Format:	PDF 🗸	Save As
Drive #3:	%systemdrive%\Users\Public\Deskto	op\My Scans\ Browse
File Prefix:	ScanPro	Files Suffix: 0000
File Format:	PDF ~	Save As
Email:	Built-In Mailer	Account
File Path:	%TEMP%	Browse
File Prefix:	ScanPro	Files Suffix: 0000
File Format:	PDF v	Save As
Cloud:	%TEMP%	Browse
File Prefix:	ScanPro	Files Suffix: 0000
File Format:	PDF v	Save As
		Save Settings OK

Figure 33

olbar Sc	an Printers	Advanced AS	Options	About	
Drive #1:	%systemdri	ve%\Users\Pub	olic \Desktop	o∖My Scans∖	Browse.
File Prefix:	ScanPro			Files Su	ffix: 0000
File Format	PDF	Ý	1	Save As	
	JPEG PNG				
Drive #2:	PDF PDF (Overlag	d)	ic\Desktop	o\My Scans∖	Browse.
File Prefix:	PDF w/OCR	0		Files Su	uffix: 0000
File Format	Tiff LZW Tiff Group IV			Save As	
	PDF (multi-pa PDF w/OCR	age) (multi-page)			
Drive #3:	Tiff (multi-pa	ge) Iti-page)	ic\Desktop	o\My Scans∖	Browse.
File Prefix:	Tiff Group IV	(multi-page)		Files Su	iffix: 0000
File Format	PDF	~		Save As	

8. Setting up Scan to Email

- a. Create a secure settings password (see "Section III.12 Setup Window: Options Tab"). The email *Account* button will not be active until a Secure settings password has been created. *Figure 35*
- b. Go to the *Scan* tab in the *Setup* window.
- c. Click the *Built-in Mailer* box.
- d. Click Account button.
- d. Enter the Secure Settings password. Figure 36
- e. Enter SMTP server information. *Figure 37*

Note:

To use an external MAPI compliant email software program (i.e. Outlook, etc.), leave the *Built-in Mailer Box* unchecked.

When configuring Gmail and you get the following error:

"TLS required in configuration but server does not support STARTTLS Error (607,0,0" - See article below for information:

If you connect using SMTP, you can only send mail to Gmail or Google Apps users; if you connect using SSL/TLS, you can send mail to anyone. If your device or application supports SSL - connect to smtp.gmail.com on port 465. To connect with SSL, you need to provide a Google username and password for authentication. Your device or app may not support Google's security standards. Some examples of apps that do not support

the latest security standards include desktop mail clients like Microsoft Outlook and Mozilla Thunderbird. To help keep your account secure, we may block these less secure apps from accessing your account. Go to Allow less secure apps and choose *Allow* to let less secure apps access your Google account. We don't recommend this option because it may make it easier for someone to gain access to your account. https://www.google.com/settings/security/lesssecurea pps

A D B C 1 D C		1 1 1 1 1 1	0.5			
Jupar 1000	O; Printers A	advanced AS	Options	About		
Drive #1:	%systemdrive	%\Users\Publ	ic\Desktop	My Scane	В	rowse
ile Prefix:	ScanPro			File	s Suffix:	0000
ile Format:	PDF	v	[Save A	5	
rive #2:	%systemdrive	%\Users\Publ	lic\Desktop	Wy Scans	s\ B	owse
le Prefix:	ScanPro			File	s Suffix:	0000
ile Format:	PDF	~	[Save A	s	
rive #3:	%systemdrive	%/Users/Publ	ic/Desktop	Wy Scans	s\ B	rowse
						1
ile Prefix:	ScanPro			File	s Suffix:	0000
ile Prefix: Ile Format:	ScanPro PDF	~	- F	File Save As	s Suffix: s le	0000
le Prefix: le Format: nail:	ScanPro PDF	v	E	File Save As CD mod	s Suffix: s le	0000
le Prefix: le Format: nail: le Path:	ScanPro PDF Built-In Maile	v r	E	File Save A CD mod	s Suffix: s le A	ccount.
ile Prefix: ile Format: mail: le Path: le Prefix:	ScanPro PDF Built-In Maile %TEMP% PcapPro	r		File	s Suffox: s le A B c Suffox:	count.
ile Prefix: ile Format: mail: ile Path: ile Prefix:	ScanPro PDF Built-In Maile %TEMP% ScanPro PDF	r		File	s Suffix: s le A B s Suffix:	0000 ccount rowse
ile Prefix: ile Format: inail: ile Path: ile Prefix: ile Format:	ScanPro PDF %TEMP% ScanPro PDF	r ~		File	s Suffix: s le A B s Suffix: s	ccount rowse
ile Prefix: ile Format: imail: ile Path: ile Prefix: ile Format:	ScanPro PDF 96TEMP% ScanPro PDF %TEMP%	* *		File Save As CD mod File	s Suffix: s le A s Suffix: s B	ccount rowse 0000
ile Prefix: ile Format: mail: ile Path: ile Prefix: ile Format: ile Prefix: ile Prefix:	ScanPro PDF Built-In Maile %TEMP% ScanPro PDF %TEMP% ScanPro	r 		File	s Suffix: a le A B s Suffix: s Suffix: s Suffix:	0000 ccount. 0000 rowse

Figure 35



Figure 36

Server IP/Port:		0
From name:		1.0
	equires authentio	cation:
User name:		
Password:		
□R	equires TLS encr	yption:

9. Setup Window: Printers Tab

The *Printer #1*, *Printer #2*, and *Printer #3* sections provide controls to define the detailed function of the selected printer. *Figure 38*

Printer

Specifies the printer to be used. Click v to reveal the list of installed printers. Click on the desired printer from the list to select it. *Figure 39*

Suppress Printer Dialog

When checked the Windows[™] printer dialog window will not be displayed.

Auto-Orient for Printing

When checked the image sent to the printer will automatically be rotated for best fit on the paper.

Center Print Vertically

When checked the image will be printed in the center vertically.

Center Print Horizontally

When checked the image will be printed in the center horizontally.

Print Offset

When checked, the image will be printed using the "Left" and "Top" text box values as the starting point on the paper. Click on the "Left" and "Top" text boxes enter the desired printing offset values. When unchecked, the image will be printed without offset in the upper left corner of the page.

Auto-Size Width & Length Boxes:

Fill in the width and length boxes to match the paper size, less the margin. *Figure 38* shows a letter size 8.5x11 inch setting with a ¼ inch margin around the paper. If the *Auto-Size* function of the *Scan Size* button is active, the cropped image on your PC monitor will automatically be downsized or expanded to fill the size you entered in these boxes.

	Advanced AS	Options	Abou	Jt	
Default Printer	~	Print O	ffset		
_		Left		Тор	
Suppress Printer Dialog	J	0.00	x	0.00	in
Auto-Orient for Printin	3	Auto-Size:			
Center Horizontal		Width		Length	
Center Vertical		8.00	x	10.50	in
rinter #2					
Default Printer	~	Print O	ffset		
Suppress Printer Dialog		Left		Тор	
Auto-Orient for Printin	, n	0.00	х	0.00	in
Center Horizontal	3	Auto-Size:			
Center Vertical		Width	_	Length	_
		10.50	×	16.50	in
rinter #3					
Default Printer	~	Print O	ffset		
Suppress Printer Dialog		Left		Тор	
Auto-Orient for Printin	g	0.00	х	0.00	in
Center Horizontal		Auto-Size:			
Center Vertical		Width		Length	٦.
		8.00	×	10.50	in





Figure 39

10. Setup Window: Advanced AS Tab

The Advanced AS window contains advanced settings used for both AUTO-Scan (Pro) and Previous/Next settings. (Figure 40) This folder tab can also be accessed by clicking the Advanced... button of the AUTO-Scan (Pro) control window.

When the Advanced AS tab is displayed there will be two red rectangles visible in the image display area. (*Figure 41*) These rectangles identify the size and location of the *Edge Detection Zone*. This is the zone monitored during *AUTO-Scan* and *Previous/Next* to detect the page, and the gap between pages, so that the film transport can stop reliably.

Note: These settings are stored and recalled via presets.

Prev/Next Speed

This control sets the speed at which the roll film moves from one image to another in *AUTO-Scan, AUTO-Scan Pro & QA* as well as when using the *Previous/Next* toolbar button.

AB (Auto-Brightness)

The *AB* button automatically sets the brightness value and the *Page* and *Gap Target levels*. When using this automatic feature be sure to position an image with the page and gap in proximity to the red rectangles of the detection zones. This value can also be manually adjusted. Brightness values of 0 to 100 are allowed. This brightness value has <u>no effect</u> on the brightness and contrast of the displayed, printed, or scanned image.

Edge Detection Zone

The settings of this table adjust the size, location, and the sensitivity levels of the detection zone. The column with the heading *Page* adjusts the zone for detecting the page whereas the column with the heading *Gap* adjusts the zone for detecting the gap between pages. Strategically setting the detection zone size, location, and sensitivity will ensure *AUTO-Scan* and *Prev/Next* work reliably with a wide variety of film formats.

Scan ext Spd ext Spd sss 50 AB etection Z Gap .44 0 0 0 .0 .0 .28 .144	24 y 1500 F 1104 L 0 L 85 T	Advanced AS Scan Re 300 Image: Two Width Portrait height Portrait center Landscape height Target level	Options esolution: Image" Ak QA Setup	About arm		
ext Spd	cone 24 1 1500 F 1104 L 0 L 85 7	Scan Ra 300 Tho Tho Width Portrait height Portrait center Landscape height Landscape center Target level	Image" Ak	arm		
ext Spd	cone 24 1 1500 F 1104 L 0 L 85 7	Scan R 300 Image: The The Width Portrait height Portrait center Landscape height Landscape center Target level	esolution:	arm		
SS AB Control Contro Control Control Control Control Control	cone 24 y 1500 F 1104 L 0 L 85 T	Width Portrait height Portrait center Landscape height Target level	Image" Ak	arm		
etection Z Gap (44 00 0 0 28 144	cone 24 1 1500 F 1104 L 0 L 85 1	Width Portrait height Portrait center Landscape height Target level	Image" Al	arm		
50 AB etection Z Gap 444 0 0 28 28 144	cone 24 y 1500 F 1104 L 0 L 85 1	Width Portrait height Portrait center Landscape height Landscape center Target level	QA Setup			
etection Z Gap 00 0 0 0 0 28 144	24 v 1500 F 1104 L 0 L 85 T	Width Portrait height Portrait center Landscape height Landscape center Target level				
Gap 444 500 0 0 04 28 144	24 v 1500 F 0 F 1104 L 0 L 85 T	Width Portrait height Portrait center Landscape height Landscape center Target level				
44 500 0 04 0 28 144	24 y 1500 F 1104 L 0 L 85 T	Width Portrait height Portrait center Landscape height Landscape center Target level				
00 0 04 0 28 144	1500 F 0 F 1104 L 0 L 85 1	Portrait height Portrait center Landscape height Landscape center Target level				
0 04 0 28 144	0 F 1104 L 0 L 85 T	Portrait center Landscape height Landscape center Target level				
04 0 28 144	1104 l 0 l 85 1	Landscape height Landscape center Target level				
0 28 144	0 I 85 1	Landscape center Target level				
144	85	Target level				
144						
	F	Position				
1.000000	1	Max blank area				
tore Defa	ults					
				Save Setting	s OK	1
					Save Setting	Save Settings OK

Figure 40



Width

Adjusts the width of the detection zones. Values of 6 to 192 are allowed.

Portrait Height

Adjusts the height of the detection zones when the *Film Orientation* control is in the Portrait position. Values of 24 to 2328 are allowed.

Portrait Center

Adjusts the center of the detection zones when the *Film Orientation* control is in the Portrait position. Values of 750 to -750 are allowed.

Landscape Height

Adjusts the height of the detection zones when the *Film Orientation* control is in the Landscape position. Values of 24 to 2208 are allowed.

Landscape Center

Adjusts the center of the detection zones when the *Film Orientation* control is in the Landscape position. Values of 552 to -552 are allowed.

Target Levels

Adjusts the zone sensitivity. These values are set automatically when the *AB* button of the *Advanced AS* tab is clicked, or they can also be adjusted manually. Values of 0 to 255 are allowed.

Position

Adjusts the location of the detection zones from the edge and consequently affects the stopping position. Values of 0 to 1104 are allowed.

Max Blank Area

Adjusts the maximum gap between pages. Unit of measure is feet. If the film transport drives for the specified value, scanning will stop displaying the message "Unable to find next page".

Restore Defaults

The Restore Defaults button replaces all *Edge Detection Zone* settings with the programmed defaults.

Scan Resolution

Sets the resolution, in DPI, of the output images during AUTO-Scan.

No Image Alarm

When checked a tone sounds when the *Max Blank Area* value is exceeded. This usually occurs at the end of a roll of film or when there is a large gap between pages.

QA (Quality Assurance) Setup Button

The QA Setup button is only available with an active ScanPro Advantage (SPA) membership. Click this button to access AUTO-Scan Quality Assurance (ASQA) settings.

11. AUTO-Scan QA Settings Window

AUTO-Scan Quality Assurance (ASQA) is only available with an active ScanPro Advantage (SPA) membership. (Figure 42) ASQA employs exclusive multi-mode scanning technology ensuring total image capture by eliminating the possibility of missed images during the high-speed, AUTO-Scan Pro scanning process of both roll film and fiche. ASQA's multi-mode scanning analyzes every inch of the film. Document images are immediately scanned, straightened, cropped, and saved in the selected file format. Additionally, areas on the film without images are ribbon scanned and saved to the QA Report for later review.

Note: These settings are stored and recalled via presets.

Enable QA report

The *Enable QA report* checkbox enables or disables the writing of a comma separated value (.csv) report documenting the results of the *AUTO-Scan Pro* process. (*Figure 43*) This report can be used as a tool to identify and correct any scan exceptions. This report can be viewed in any software supporting the .csv file type. The report gives the roll film odometer location of the scan exception image to aid in quickly finding the image on roll film to rescan, etc. If scanning microfiche, instead of odometer locations, the virtual grid marks the exceptions in red. *Figure 44*.

Report exceptions only

The *Report exceptions only* checkbox specifies whether the ASQA report will include the scanning results of the entire scanned media or only scan exceptions.

Distance

Distance is a reference to how far the film has traveled in feet. When checked, if the film moves less than the minimum this will be reported in the ASQA report. If the film moves more than the maximum the film drive will automatically stop, and the entire display will be scanned. This too will be reported in the ASQA report. Setting the distance minimum and maximum values can be done manually however these values are also set via the *Load Defaults* button.





-				1101						
зł	A	В	С	D	E	F	G	н	1	
1	hdr	filename	odometer	distance	crop.heig	crop.widt	crop.miss	deskew	outlier	
2	outlier_	min		0	8.5	6.25				
3	outlier	max		999			0	15		
4	rec	C:\Users\I	5.390644	0	12.12636	8.925	1	0	1	
5	rec	C:\Users\I	5.436277	0.045633	8.52483	6.059137	0	0.16	1	
6	rec	C:\Users\I	5.476143	0.039866	12.12636	8.925	1	0	1	
7	rec	C:\Users\I	5.554483	0.078341	7.918512	5.586209	0	0.02	1	
8	rec	C:\Users\I	5.629642	0.075159	12.12636	8.925	1	0	1	
9	rec	C:\Users\I	5.638192	0.00855	8.476325	6.135937	0	-0.01	1	
10	rec	C:\Users\I	5.716036	0.077843	6.681624	5.727683	0	-2.61	1	
11	rec	C:\Users\I	5.797061	0.081025	8.460156	6.135937	0	-0.06	1	
12	hdr	filename	odometer	distance	crop.heig	crop.widt	crop.miss	deskew	outlier	
13	outlier	min		0	8.5	6.25				
14	outlier	max		999			0	15		
15	rec	C:\Users\I	5.879079	0.082019	8.411651	6.131895	0	0.03	1	
16	rec	C:\Users\I	5.923717	0.044638	6.491644	6.746298	0	-6.8	1	

Figure 43



Brightness

When the *Auto-Brightness* checkbox of the *AUTO-Scan Pro* window is checked, each scan will be automatically adjusted for brightness and contrast. If the resultant *brightness* is less than the minimum or greater than the maximum, this will be reported in the ASQA report.

Contrast

When the *Auto-Brightness* checkbox of the *AUTO-Scan Pro* window is checked each scan will be automatically adjusted for brightness and contrast before they are saved. If the resultant *contrast* is less than the minimum or greater than the maximum, this will be reported in the QA report.

Crop height

When the *Straighten/Crop* checkbox of the *AUTO-Scan Pro* window is checked, scanned documents will be automatically straightened and cropped before they are saved. *Crop height* refers to the computed crop height of the scanned document image. If the crop height is less than the minimum the document image will not be cropped but rather the entire display will be scanned, and the event will be reported in the ASQA report. Setting the *crop height* minimum value can be done manually however this value is also set via the *Load Defaults* button.

Crop width

When the *Straighten/Crop* checkbox of the *AUTO-Scan Pro* window is checked, scanned documents will be automatically straightened and cropped before they are saved. *Crop width* refers to the computed crop width of the scanned document image. If the crop width is less than the minimum the document image will not be cropped but rather the entire display will be scanned, and the event will be reported in the ASQA report. Setting the crop width minimum value can be done manually however this value is also set via the *Load Defaults* button.

Straighten angle

When the *Straighten/Crop* checkbox of the *AUTO-Scan Pro* window is checked, scanned documents will be automatically straightened and cropped before they are saved. Straighten angle refers to the computed straighten angle of the scanned document image. If the straighten angle is greater than the maximum the document image will not be straightened but rather the entire display will be scanned, and the event will be reported in the QA report. Setting the straighten angle maximum value can be done manually however this value is also set via the *Load Defaults* button.

N/A

Reserved for future reporting of exceptions.

N/A

Reserved for future reporting of exceptions.

Crop failure

When the *Straighten/Crop* checkbox of the *AUTO-Scan Pro* window is checked, scanned documents will be automatically straightened and cropped before they are saved. If the cropping logic fails to find a document, or the image is touching any edge of the image area, then entire image area is captured and this event will be reported in the ASQA report.

Load Defaults

The Load Defaults button replaces all settings with the programmed defaults.

IMPORTANT CHECKS BEFORE SCANNING TO OBTAIN THE BEST RESULTS

- a. Click the *AB* button under the *Advanced AS* tab to automatically set the *brightness* value and the *Page and Gap Target* levels.
- b. When using the ASQA Report, crop the image. If it says the document height and width are 9x7, for example, set the minimum *height* and *width* to around 8x6. You want the height and width to be slightly less than the minimum document size so you will not get an exception error generated if the settings are too close. Setting the *width* and *height* too low may result in exceptions not being flagged.

12. Setup Window: Options Tab

The *Options* tab provides control over a variety of settings. *Figure 45*

Language

Specifies the language used in PowerScan. Click \square to reveal and select from the list of available languages.

Roll Film Control

When checked the on-screen *Roll Film Control* will be displayed.

Roll Film Threading Helper

When checked the *Film Threading Animation* will display when film carriage is pulled all the way out. *Figure 46*

Fiche Loading Helper

When checked the *Fiche Loading Animation* will display when film carriage is ejected when using an AUTO-Carrier. *Figure 47*

Rewind Reminder

When checked, an attempt to close the software or switch presets before rewinding, results in a dialog box asking *Rewind your film*?. Clicking yes will rewind film.

Auto-Crop

When checked, the scanner will attempt to automatically move the green capture box around subsequent images. The software <u>will not</u> resize the green capture box in this mode.

Odometer

When checked, an odometer will be displayed in the roll film control bar.

Border Straighten

When this radio button is selected, the image borders are detected and used for straightening the image. This is the preferred setting.

Text Straighten

When this radio button is selected the alignment of the text is detected and used for straightening the image. Select this method if images do not have solid black borders.

Secure Settings





Figure 46



Figure 47

Provides a separate password for payment systems and email settings. To create a secure settings password:

- a. Click Secure Settings button.
- b. Enter desired password in *New* and *Verify* fields. *Figure 48*
- c. Click *Set Password* button and wait for the fields to go blank (this will take several seconds).
- d. Click Save Secure Settings.

If the ScanPro is moved to another PC, or the PC is reimaged, when launching the software an error message will appear, "Secure Settings corrupted" and no outputs will work (print, save, email).

To reset the secure settings password

- a. Click Secure Settings button.
- b. Enter the old secure settings password.
- c. Enter desired password in *New* and *Verify* fields. This can be the same as the old password. *Figure* 48
- d. Click *Set Password* button and wait for the fields to go blank (this will take several seconds).
- e. Click Save Secure Settings.

If the password is lost, or the secure settings window does not open, a "password of the day" is required to unlock the ScanPro. Contact Tech Support at 800-251-2261 or via the *Tech Support* request form online, with the camera serial number. After receiving the password of the day enter it in "Step b" above. This will open the secure settings window.

Watermark

Click on this button to open the *Watermark* window. Browse to the required watermark. Set the opacity with the slider. All saved image files, prints and emails will include the watermare. *Figure 49*

Watermark File	C:\Users\Bill\Pictures\CLASSIFIED.png
Opacity	29

Copyright

Click the *Copyright* button and click the *Enable* box if you wish to have a copyright warning appear before every scan, print or email is made. Slide the *copyright font size* to select how large you want the warning text to be. *Figure 50* If the user clicks on the *Accept* button to acknowledge liability for reproducing the image, the ScanPro will output the image. If the user clicks on the *Decline* button, the box disappears and the ScanPro does not reproduce the image for output. *Figure 51*

Inches

When this radio button is selected the unit of measure is inches.

Millimeter

When this radio button is selected the unit of measure is millimeters.

Energy Saver

Specifies how long in minutes before the lamp turns off after a period of inactivity with no keyboard or mouse usage. Click in the *number* box and enter the desired value. Maximum value is 240 minutes.

Copyright	×
Enable	
Copyright Warning Text	
The copyright law of the United States (Title 17 U.S. Code) governs the making of reproductions of copyrighted material.	^
The person using this equipment is liable for any infringement.	
	~
copyright_font_size	
Cancel OK	



opyright Warning	>
The copyright law of the United States (Title 17 U.S. Code) governs the making of reproductions of copyrighted material.	^
The person using this equipment is liable for any infringement.	
	v

Figure 51

Trim Crop

Specifies a border mask size. This makes it possible for prints and scans to be free of black edges.

Film Wizard

When checked, PowerScan will start to the *Film Selection Wizard* screen and the *Film Selection Wizard* button will be added to the top of the toolbar.

Create Grid (only available on units equipped with an AUTO-Carrier)

Click this button to create a grid matching your microfiche. See "Section III.23 AUTO-Carrier Software" for a more detailed explanation.

Image Marks (ScanPro i9500 only)

Click this button to customize the Image Mark Sensing (IMS) feature of the ScanPro i9500.

13. IMS Settings Window

Access this window by clicking on the *Image Marks* button on the *Options* tab of the *Setup* window. This window allows the customization of the *Image Mark Sensing (IMS)* settings. The *Formatting & Indexing* tab is used to set the configuration for the 16mm film being used. *Figure 52*

Film Modes

Selection for *Simplex* (single image) film or *Duplex* (double image) film.

IM Location

Selection for the location of Image Marks (blips) on the film. Channel A is the bottom of the film. Channel B is the top of the film.

Index Formats

Selection for the Image Mark (blip) formatting.

- a. *Single Level* is for blips that are all the same single size, typically referred to as small (page).
- b. *Level* is for film that has 2 sizes of blips, typically referred to as small (page) and medium (file).
- c. *3 Level, 2 size* is for film that has 2 sizes of blips, but there is no size difference for files or batches.
- d. *3 Level, 3 size* is for film that has 3 sizes of blips, typically referred to as small (page), medium (file), and large (batch).

To successfully calibrate the settings on the *Customize* tab, *(Figure 54)* load in the film being used for calibration and advance to the appropriately sized blip. *Figure 53*

Brightness

The number value of the *Brightness* used for identifying blips during motion. This value <u>does not</u> affect the output image. This can be manually changed. Values from 0-100 are acceptable.

Auto

Automatically sets the *Brightness* value for blip searching.









Cal. Str.

Allows a user to calibrate the straightness of the film. Click this button, the cursor will change to a + for a 2 point click straighten. Click once on the left side of a horizontal line, and then once on the right to make the line flat. The edge of the film is the preference.

IMS Sizes

This table specifies blip size for S (small), M (medium), and L (large) blips:

- a. The measured dimension, *Nom*, of the Image Mark (blip).
- b. The lower limit of blip size, *Minus*, is the *Nom Minus*. In this example the lower limit is .400 (.700-.300=.400) for small blips.
- c. The upper limit of blip size, *Plus*, is the *Nom* + *Plus*. In this example the upper limit is 1.550 (.700+.850=1.550) for small blips.

With the small blip on-screen, click the *Measure* button in the *S* line. The *Nom* value will change to the calculated size. To set the size for medium or large blips, move to the relevant blip. Then click the *Measure* button on the cooresponding line.

All fields can be manually changed. The blip size ranges should never overlap. In this example there is a buffer of .250 between small and medium blips. The buffer between medium and large is .450.

ОК

Clicking the OK button will impliment any changes made in the IMS Settings window.

Cancel

Clicking the *Cancel* button will close the *IMS Settings* window without implementing any changes.

14. Setup Window: About Tab

The *About* tab provides information for the camera serial number, firmware and software versions and licensed features. *Figure 55*

Register/Renew (Requires internet connection) When this button is clicked the web browser will open to the ScanPro Advantage Membership renewal page <u>https://www.e-imagedata.com/scanpro-membership/</u>. Use this page to register the ScanPro or renew the SPA membership.

Check for Updates (Requires internet connection) This button makes it easy to check for software updates. When this button is clicked the web browser will open to the Software Downloads page. <u>https://www.e-</u> imagedata.com/scanpro-software/

Save Settings Button

After the ScanPro has been configured for a particular microform, many of the controls, once set, are no longer needed by the operator. The ability to setup, save, and restore these customized configurations of the user interface greatly simplifies the use of the ScanPro. Click on the *Save Settings* button to create a preset which contains the configuration of the toolbar and the *Setup Window*. A *Save As* window will open allowing you to select a name for your preset. *Figure 56*

Failure to save settings will result in customizations to the configuration being lost.





Figure 56

15. Film Selection Wizard

The PowerScan software is extremely powerful providing users with unmatched features and flexibility. Having the ability to set up the software, save the settings, and then easily recall the settings, makes the ScanPro not only the most powerful microfilm reader/scanner available but also the easiest to use. The software will automatically open to the *Film Selection Wizard* each time the software is launched. Return to the *Film Selection Wizard* screen by using the *Film Selection Wizard* button at the top of the toolbar.



Film Selection Wizard Screen

The PowerScan Software is shipped with standard presets. Click on any of these images to recall the associated preset. *Figure 57*

Customizing the Film Selection Wizard

- a. Ensure that the PowerScan software is closed.
- b. Navigate to C:\ProgramData\PowerScan xxxx\Settings folder. Figure 58
- c. If there is a .PNG image file and an .INI settings file with the same name present in this folder location, the PNG image will be displayed on the *Film Selection Wizard* screen. When clicked, the INI preset file will be loaded.
- d. To add a preset to the *Film selection Wizard*
 - 1. Custom images can be created by using a photo editing program to create a 340 x 250 pixel .PNG image file.
 - To use a new .PNG image file, move the file to this folder. Existing .PNG files are 340 x 250 pixels. Using a file of the same size will preserve the even grid layout.
 - 3. To reuse an existing .PNG image file, copy and paste it in this folder. Then rename the file to the name you would like to appear above it on the *Film Selection Wizard*.
 - Repeat this process for a similar .INI settings file. Be sure to use the exact same name as the .PNG image file.
 - 5. Launch the PowerScan software, and choose the preset just created from the *Film Selection Wizard*.
 - 6. Use the software setup window to customize this setting for use.

ramData > PowerScan 3500 > Settings	~	5	Q	Search Settings	
Name	Date modified			Туре	Size
16mm Roll Film sample.ini	4/14/2022 6:46	AM		Configuration sett	30 1
16mm Roll Film sample.png	4/14/2022 6:46	AM		PNG File	64 1
35mm Roll Film sample ini	4/14/2022 6:46	AM		Configuration sett	321
35mm Roll Film sample.png	4/14/2022 6:46	AM		PNG File	64 1
Aperture Card sample.ini	4/14/2022 6:46	AM		Configuration sett	28 1
Aperture Card sample.png	4/14/2022 6:46	AM		PNG File	33
Color Slide sample.ini	Item tuner PNG	ile k		Configuration sett	30 1
Demo.ini	Dimensions: 340	x 250		Configuration sett	30 1
Demo.png	Size: 32.9 KB			PNG File	121 1
Expert User + New Features.ini	4/14/2022 6:46	AM		Configuration sett	30 1
Expert User + New Features.png	4/14/2022 6:46	AM		PNG File	121
inide Color Slide sample.png	4/14/2022 6:48	AM		PNG File	771
hide Negative Fiche-42x-13X16.png	4/14/2022 6:46	AM		PNG File	541
hide Negative Fiche-48x-15X18.png	4/14/2022 6:46	AM		PNG File	54 1
Jacket 5 x 16mm sample.ini	4/14/2022 6:46	AM		Configuration sett	30 1
Jacket 5 x 16mm sample.png	4/14/2022 6:46	AM		PNG File	52 1
M Cartridge Roll Film sample.png	4/14/2022 6:48	AM		PNG File	591
Micro Opaque sample.png	4/14/2022 6:46	MA		PNG File	501
📓 Negative Fiche sample.ini	4/14/2022 6:46	AM		Configuration sett	321
Negative Fiche sample.png	4/14/2022 6:46	MA		PNG File	541
Negative Fiche-24x-7X14.ini	4/14/2022 6:48	MA		Configuration sett	311
Negative Fiche-24x-7X14.png	4/14/2022 6:46	AM		PNG File	541
Negative Fiche-42x-13X16.ini	4/14/2022 6:46	AM		Configuration sett	31 1
Negative Fiche-48x-15X18.ini	4/14/2022 6:46	AM		Configuration sett	311
Positive Fiche sample.ini	4/14/2022 6:46	AM		Configuration sett	32
Positive Fiche sample.png	4/14/2022 6:46	MA		PNG File	591
Well Log (5 row).ini	4/14/2022 6:48	AM		Configuration sett	301
🔊 Well Log (7 row).ini	4/14/2022 6:46	AM		Configuration sett	301

- e. To remove a preset from the Film Selection Wizard
 - 1. To save the presets for future use, change the name of the .PNG image file to be different from the corresponding .INI settings file. Click once to edit then name, then type *hide* at the end of the name.
 - 2. To eliminate presets completely, delete the unused files.

16. How to Change Your Password

- a. Ensure that the PowerScan software is closed.
- Browse the computer and find the following folder: C:\ProgramData\PowerScan xxxx (Note: This is a hidden folder. If the computer is not set up to show hidden folders and locations, contact the IT department for help)
- c. Double click on the *PowerScan xxxx.ini* configuration file to open it in Notepad.
- d. Scroll down to the section ; misc fixed settings. Figure 59
- e. Find the line *Password=1234*. On the right side of the equal (=) sign change the existing text *1234* to the desired password. This password will be case sensitive, and special characters are accepted.
- f. Save and close the file.
- g. Changes will take effect when launching the software.

IMPORTANT: Do not change any other settings in this configuration file. Damage may occur to the ScanPro Microfilm Scanner.



17. Usage Statistics

- a. Ensure that the PowerScan software is closed.
- Browse the computer and find the following folder: C:\ProgramData\PowerScan xxxx (Note: This is a hidden folder. If the computer is not set up to show hidden folders and locations, contact the IT department for help).
- c. Double click on the *PowerScan xxxx.ini* configuration file to open it in Notepad.
- d. Scroll down to the section ; usage statistics. Figure 60
- e. To reset these statistics, change the number to the right of the equal (=) sign to a 0.
- f. Save and close the file.
- g. Changes will take effect when launching the software.

IMPORTANT: Do not change any other settings in this configuration file. Damage may occur to the ScanPro Microfilm Scanner.

🔲 PowerScan 3000 - Notepad	
File Edit Format View Help	
:NOTES	
This ini file is specific Certain ScanPro 1000 value	to the ScanPro 700, s are changed or c
; ;Search for "ScanPro" and "	PowerScan" to find
[Settings]	
: usage Statistics	
counter.scan=0	
counter.print=0	
counter.lamp.minutes=4	
counter.lamp.hours=2	
counter.rotation.total=56	
counter.rotation.boot=14	
counter.rotation.orient=28	
; Motorized Fiche Carrier	
xy.xcfg.olcurrent=0	
xy.ycfg.olcurrent=0	
xy.checkopen=1	
xy.stallopen=0	
xy.nomotion=0	
xy.clearmotime=1000	
xy.framedelay=1	
xy.loadspd=3	

18. Adding a Company Name to the Title Bar

- a. Ensure that the PowerScan software is closed.
- Browse the computer and find the following folder: C:\ProgramData\PowerScan xxxx (Note: This is a hidden folder. If the computer is not set up to show hidden folders and locations, contact the IT department for help).
- c. Double click on the *PowerScan xxxx.ini* configuration file to open it in Notepad.
- d. Scroll down to the section ; misc fixed settings.
- e. Find the line options.company=e-ImageData Corp. Figure 61
- f. Replace *e-ImageData Corp.* in this line with the desired company information.
- g. Save and close the file.
- h. The change will take effect when launching the software.

IMPORTANT: Do not change any other settings in this configuration file. Damage may occur to the ScanPro Microfilm Scanner.

super.range=375	
super.testrep1=0	
; misc fixed settings	
password=1234	
options.uiname =. PowerScan 300	00™ v5.343a : a
options.company =e-ImageData Corp.	<pre>: company name for titlebar</pre>
options.trans=0	; 0 disable
options.sp800demo=0	: 0=operate
options.splashval=3000	
options.settings=%systemdrive%\Pro	gram Files (x86)\PowerScan 3000\S
options.hidess=1	
scanner.park.lens=13113	; position of lens
scanner.park.sensor=0	; position of sense
scanner.autozoom.size=90	; how much to zoom
scanner.maxres=2000	
scanner.autocal.brightness=50	;brightness value to use fo
scanner.autocal.insetup=0	;0=hide, 1=show cal
toolbar.layout =TOOL_DISPLAY	
toolbar.size=Medium	
preset.buttonfactor=170	
toolbar.tipwidth=300	
rollfilm.enabled=0	
smtp.noext=0	; 0 enables
noeepromcal=0	27.0
neset = 0	; (
reset - 0	
touch=0	; 6

19. Installing a New License Key

For 32 bit operating systems:

- a. Ensure that the PowerScan xxxx software is closed.
- b. Navigate to the PowerScan xxxx Folder. (c:\Program Files\PowerScan xxxx)
- c. Delete any files that have a .lic extension.
- d. Copy (DO NOT OPEN) the license key and paste it into this folder.

For 64 bit operating systems:

- a. Ensure that the PowerScan xxxx software is closed.
- b. Navigate to the PowerScan xxxx Folder. (c:\Program Files (x86)\PowerScan xxxx)
- c. Delete any files that have a .lic extension.
- d. Copy (DO NOT OPEN) license key and paste it into this folder.

Note: When the PowerScan xxxx software is started it checks for the existence of a valid .lic file in the PowerScan xxxx folder. If this file exists, the licensed features will automatically be enabled. The software will not ask for a number.

Figure 62 shows two license keys. This is incorrect and may cause problems. Be sure to **delete** the old key. There shouldn't be multiple keys in the PowerScan xxxx Folder.

nstal	PowerScan 3000-4	1/11/2019 6:02 PM	Configuration sett	60 KB
orpc	PowerScan 3000-5	1/11/2019 6:02 PM	Configuration sett	65 KB
	PowerScan 3000-6	1/11/2019 6:02 PM	Configuration sett	65 KB
. 1/	PowerScan 3000-7	1/11/2019 6:02 PM	Configuration sett	43 KB
n it	PowerScan 30002-2.fir	8/26/2016 1:33 PM	FIR File	16 KB
n 1'	PowerScan 30002-3.fir	8/26/2016 1:33 PM	FIR File	19 KB
n 3(servo-2.fir	12/23/2018 7:20 AM	FIR File	19 KB
	📄 servo-3.fir	12/23/2018 7:20 AM	FIR File	20 KB
	SN 30-1658 SPA EXP 201905 [726004592]	2/28/2019 12:52 PM	LIC File	2 KB
As:	SN 73537U 209 001 000 000 [781006516] k	12/4/2012 3:54 PM	LIC File	2 KB
	📓 splash-0	11/6/2017 11:39 AM	GIF File	169 KB
lafa	📓 splash-1	11/6/2017 11:39 AM	GIF File	172 KB
1110 V	splash-2	7/12/2018 8:26 PM	GIF File	170 KB

20. How to Change the Names on Toolbar Buttons

- a. Ensure that the PowerScan software is closed.
- b. Go to the following folder: for 32 bit OS: C:\Program Files\PowerScan XXXX Or for 64 bit OS: C:\Program Files (x86)\PowerScan XXXX
- c. To modify the English language file, double click on the *PowerScan xxxx-O.ini* configuration file to open it in Notepad.
- d. Find the button name to be changed under the *; Button Names* section. *Figure* 63
- e. Type new name to the right of the equal (=) sign. WARNING DO NOT ENTER INFORMATION TO THE LEFT OF THE EQUAL (=) SIGN. In this example screen the "Scan to Drive #2" button name (Figure 65) has been changed to "USB" (Figure 64).
- f. Save and close the file.
- g. Changes will take effect when you launch the software.

/ PowerIcan 1000-0 - Notepad			- 1	3 X
File Edit Format View Help				-
[English]				~
;Program Start				
splash=Your PowerScan 3000" software v5.343a 1	s starting, please wa	It		
ETIM SELECTION WITARD WINDOW				
FILT SELECTION MILAND MINDOW				
start_title=e-imageData corp., PowerScan 3	000 V5.3438			
start_instruction cite on the image that match	ies your rates			
startlangs preset=Preset:				
BUTTON NAMES				
fontsize-24				
restart-Film Selection Wizard				
From look Ob Look				
nonmost Provident Next				
next nameniliest Image				
new nagesProvinus Image				
newnewtstoosStop				
sagnifier-Magnifier				
editimage-Spot-EDI1-				
word_search=wordAs_search*				
match_casematch_case				
Match_words=Find_whole_words_only				
rlinboard=Copy to Clinboard				
cripton o-copy to cripton o				
brightness=Brightness				
contrast=Contrast				
rotate_optical=Manual%s Straighten				
autostraighten=Line%s Straighten				
deskew-Auto-%sStraighten				
crop-Auto-Crop				
multiadjust-Auto-%s Adjust				
Toom Toom				
focustFocus				
film type=Film Type				
film orientation=Film%s Orientation				
rotate digital=Rotate%s 90°				
sirror-Mirror				
scan_size=5can Size				
rit_to_page=Auto-Size				
scan_type=scan Mode				
nesolucion-scanas Resolucion				
ncint sc-Printer #1				
ncint2=Printer #2				
print2 srsPrinter #2				
print3=Printer #3				~
¢				
	Windows (CRLF)	In1 Cel1	100%	
	transforms (crass)	11.07.7.001.0	10000	

```
Figure 63
```

```
print3=Printer #3
print3_sr=Printer #3
searchablepdf_single=OCR PDF%s Single Page
searchablepdf_multi=OCR PDF%s Multi-Page
scan_to_drive_1_Sr=Scan to%s Drive #1
scan_to_drive_2_scan to%s Drive #2
scan_to_drive_2_sr=Scan to%s Drive #2
scan_to_drive_3_Sr=Scan to%s Drive #3
scan_to_drive_3_sr=Scan to%s Drive #3
xport=Export
xport_sr=Export
```

scan_to_email=Scan to%s Email
scan_to_email_sr=Scan to%s Email

```
Figure 65
```

```
print3=Printer #3
print3_sr=Printer #3
searchablepdf_single=OCR PDF%s Single Page
searchablepdf_multi=OCR PDF%s Multi-Page
scan_to_drive_1_scan to%s Drive #1
scan_to_drive_1_sr=Scan to%s USB Drive
scan_to_drive_2_sr=Scan to%s USB Drive
scan_to_drive_3=Scan to%s Drive #3
scan_to_drive_3=scan to%s Drive #3
scan_to_drive_scan_scan to%s Email
scan_to_email_sr=Scan to%s Email
cloud_scan=Scan to%s Cloud
cloud_scan_sr=Scan to%s Cloud
```

21. How to Change the Mouseover Tooltips for Toolbar Buttons

- a. Ensure that the PowerScan software is closed.
- b. Go to the following folder: for 32 bit OS: C:\Program Files\PowerScan XXXX for 64 bit OS: C:\Program Files (x86)\PowerScan XXXX
- c. Double click on the PowerScan xxxx-0.ini configuration file to open it in Notepad.
- d. Scroll down to the "TOOL TIPS" section. Figure 66
- e. Find the button tool tip to be changed.
- f. Type a new tool tip to the right of the DO NOT ENTER Equal (=) sign. INFORMATION TO THE LEFT OF THE EQUAL (=) SIGN.
- g. Save and close the file.
- h. Changes will take effect when you launch the software.

Figure 67 shows the original Tool Tip for scanning to Drive #2.

Figure 68 shows the wording changed to "the USB Drive" to inform the user where the drive 2 destination will be.

PowerScan 3000-0 - Notepad	>	ζ.
File Edit Format View Help		
:Roll Film Control		1
roll_film_control_title = Motorized Roll Film Control		
autoframe = Auto-Frame		
roll_rw = Rewind		
roll_hr = High%sSpeed		
roll_fr = Fast%sRev		
roll_ff = Fast%sFwrd		12
roll_hf = High%sSpeed		
roll lock = Scan%sLock		1
roll_sf = Slow%sFwrd		1
roll_sr = Slow%sRev		
roll_thread-Threading Video		
TOOL TIPS		
restart long=Click to go to the Film Selection Wizard™ screen.		
live_long=Click to un-freeze the image to allow movement.		
prevnext_long=Click the arrows to move roll film one image.		
next_page_long-Click to move roll film to next image.		
prev_page_long=Click to move roll film to previous image.		
prevnextstop_long=Click to stop		
magnifier long=Click to open a separate magnified window of the image. Click the down arrow button to select the	desired magnifica	1
magnifier_combo_long=Click to select magnification factor.		
magnifier_hd_long=Standard Definition		
magnifier_uhd_long=Ultra-High Definition		

magnitier__iong_long=Utra-hign Uerinition magnifier__silong=Click to select Utra-High Definition magnifier_minus_long=Click to select Standard Definition magnifier_minus_long=Click to increase image size. maenifier nius long=Click to increase image size.

Figure 66

rint2_sr_long=Click to send an ultra high definition image of the area within the green crop box to Printer #2. rint3_long=Click to send a standard definition image of the area within the green crop box to Printer #3. rint3_sr_long=Click to send an ultra high definition image of the area within the green crop box to Printer #3. earchablepdf_single_long=Click to select file type "Searchable PDF Single Page" and then click "Scan" earchablepdf_multi_long=Click to select file type "Searchable PDF Multi Page" and then click "Scan". can_to_drive_1_long-Click to save a standard definition image of the area within the green crop box to Drive #1. can_to_drive_1_sr_long-Click to save an ultra high definition image of the area within the green crop box to Drive #1. can_to_drive_2_long-Click to save a standard definition image of the area within the green crop box to Drive #2. can_to_drive_3_long-Click to save an ultra high definition image of the area within the green crop box to Drive #3. can_to_drive_3_long-Click to save a standard definition image of the area within the green crop box to Drive #3. can_to_drive_3_long-Click to save a standard definition image of the area within the green crop box to Drive #3. port_ong-Click to save a standard definition image of the area within the green crop box to Drive #3. port_ong-Click to save a standard definition image of the area within the green crop box to Drive #3. port_ong-Click to save a standard definition image of the area within the green crop box to a specified location. port_sr_long-Click to save an ultra high definition image of the area within the green crop box to a specified location. can_to_email_long-Click to attach a standard definition image of the area within the green crop box to a specified location.

Figure 67

searchablepdf_single_long=Click to select file type "Searchable PDF Single Page" and then click "Scan". searchablepdf_multi_long=Click to select file type "Searchable PDF Multi Page" and then click "Scan".

scan_to_drive_1_long=Click to save a standard definition image of the area within the green crop box to Drive #1. scan_to_drive_1_sr_long=Click to save an ultra high definition image of the area within the green crop box to Drive #1. Scan_to_drive_2_long=Click to save a standard definition image of the area within the green crop box to the USB Drive. scan_to_drive_2_sr_long=Click to save an ultra high definition image of the area within the green crop box to the USB Drive scan_to_drive_3_long=Click to save a standard definition image of the area within the green crop box to Drive #3. scan_to_drive_3_sr_long=Click to save an ultra high definition image of the area within the green crop box to Drive #3. xport_long=Click to save a standard definition image of the area within the green crop box to a specified location. xport_sr_long=Click to save an ultra high definition image of the area within the green crop box to a specified location.

22. Automatic Roll Film Scanning: AUTO-Scan & AUTO-Scan Pro

Automatic Scanning is included with the standard PowerScan Software except the ScanPro 2500. AUTO-Scan Pro (optional software) is available on the 2500, 3500 and i9500 with an active *ScanPro Advantage* (SPA) membership.

- a. Click the *Auto-Scan™ Pro* icon to open the *AUTO-Scan* window.
- b. *AUTO-Scan* (*Figure 69*) runs at up to 20 IPM for both film and fiche (requires an AUTO-Carrier).
- c. *AUTO-Scan Pro* (*Figure 70*) scans at up to 100 IPM for both film and standard fiche, or 70 IPM for Jacketed fiche when equipped with an AUTO-Carrier.

Notes

- a. All images must appear in the display with black borders for the *AUTO-Scan* to work properly.
- b. A zoom setting which allows for space to the right and to the left of the displayed image is necessary for AUTO-Scan to work reliably. *Figure 71*.
- c. For best performance, make sure the *file path* has been added to the exceptions list of the anti-virus software.
- d. If scanning images that were originally larger in size (for example newspaper pages) try setting the scan size to the original image size. When the scan size is set to auto size, the saved image will be automatically reduced to the printer paper size (usually 8.5" x 11"). This can affect the output quality.

File Path

Specifies the location where the scan will be saved. Enter this location by typing or by using the *Browse*... button to navigate through the Windows folder structure and select the desired folder.







Figure 71

File Prefix

Specifies the filename prefix of the saved scan.

File Suffix

Specifies the starting filename suffix number of the saved scan. The number will increment by one with each scan.

Number of Scans

Specifies the number of scans that will be made before stopping. If left blank, it will continue to scan until no further images can be found on the roll of film.

File Type

Specifies the file format of the saved scan. When using a *Scan Mode* setting of *Enhanced Grayscale*, the smallest file size can be achieved by using *File Type* JPEG. When scanning using a *Scan Mode* of *Black and White*, the smallest file size can be achieved by using *File Type* TIFF (Group IV). *AUTO-Scan* creates the following selectable file formats: TIFF, TIFF (Group IV), TIFF (LZW), JPEG, PNG, PDF. *AUTO-Scan Pro* additionally can create multipage TIFF, TIFF (Group IV), TIFF (LZW), and PDF.

Advanced

- a. Click on button to access the *Advanced AS* window of the setup window. A password window will open. *Figure 72*
- b. Enter your *Setup* password and the *Advanced AS* tab of the *Setup* window will open to adjust advanced settings. *Figure 73*
- c. See "Section III.10 Setup Window: Advanced AS tab" for more information.

Film Speed

Adjust film speed for reliable scanning. If images are stopping to the right of center, increasing the speed will move the stopping position left. If the images are not stopping in time, or are left of center, decrease the speed.

Auto-Brightness

If unchecked, the initial brightness and contrast settings will be used for all scans. If checked, brightness and contrast adjustments will be made automatically for each individual image prior to scanning. This will slow down the scanning process.



erup			
oolbar So	an Printers Adv	anced AS Options About	
Film Speed		Scan Resolution:	
12	-	300 ~	
Brightness		🗹 "No Image" Alarm	
50	AB	QA Setup	
Edge Dete	ction Zone		
24	Width		
2328	Portrait height		
288	Portrait center		
2112	Landscape height		
C	Landscape center		
96	Position		
1.000000	Max blank area		
	_		
Restor	e Defaults		
		Save Settings	OK



Straighten/Crop

If unchecked, the green capture box is scanned without any attempt to center, straighten or crop the image prior to being saved. If checked, the scanned image will be straightened and cropped prior to being saved.

Straighten

If unchecked, the green capture box is scanned without any attempt to center, straighten, or crop prior to being saved. If checked, the scanned image will be straightened prior to being saved. The green capture box specifies the capture area.

Duplex

Check box for using duplex film. Used to capture both front and back of images separately. Make sure that the film is right reading (rotate if necessary) as the images will be scanned left (front) then right (back of image).

Duplex Grouping

Group front and back of duplex image into one multi-page file. Make sure you select a multi-page file format.

Forward or Reverse

Specifies direction of film travel.

Stop

Aborts an AUTO-Scan scanning session.

Start

Starts an AUTO-Scan scanning session.

23. Automatic Roll Film Viewing: AUTO-Review

Available with the *ScanPro Advantage* (SPA) Membership, this *Previous/Next* mode is used to perform a quality review of a newly processed roll of film by automatically moving from one image to the next and displaying each image for a customizable period of time.

AUTO-Review is activated by holding the *CTRL* button on the keyboard and clicking the *Previous* or *Next* button. The film will advance automatically until you click the *Stop* button. Adjust the speed in the *Setup* window on the *Advanced AS* tab.

24. AUTO-Carrier Software – Automatic fiche scanning

Selectively Choosing Which Pages to Scan on Your Microfiche

- a. In the *AUTO-Scan Pro* window, leave number of scans box blank to scan the entire microfiche.
- b. Hold the keyboard *CTRL* key and left mouse click on *Virtual Grid* locations to select multiple single images.
- c. Hold the keyboard *SHIFT* key to select a range of images (from the last selected image) to your current grid selection.
- d. Press the keyboard CTRL + A to select all the marks and then hit CTRL + A again to clear the display.

How to Create a Virtual Grid

- a. Click a fiche preset on the *Film Selection Wizard* that resembles your film. It will open with the AUTO-Carrier in the eject position (glass open).
- b. Click the Setup toolbar folder tab.
- c. Click the *Setup* button and the *Setup Password* window will open.
- d. Enter *setup* password (default password is *1234* unless you changed it) and click *OK*. The *Setup* window will open.
- e. Click the Setup window Options tab. Figure 74
- f. Click the *Create Grid* button on the *Options* tab and the *Create Virtual Grid* window will open. *Figure 75*
- g. Select the type of microfiche from the drop down list. If selecting jacketed fiche, skip to "Step I".
- h. Count the number of rows & columns on your fiche.
- i. Convert row count to a letter (1=A, 2=-B, 3=C, etc.).
- j. Enter the row letter and the column count into the *Create Virtual Grid* window.
- k. Enter the cell identifier of the lower right fiche image into the *Create Virtual Grid* window.
- I. Place fiche in carrier pushed to the back with fiche header toward the front and right reading (not mirrored). *Figure 76*





Figure 75



Figure 76

- m. Click the fiche control *Load* button. The AUTO-Carrier will move to the center. *Figure 77*
- n. Use keyboard arrow keys to center an image in the display.
- o. Use the *Film Type, Mirror, Straighten, Orient,* and *Rotate* toolbar buttons as needed.
- p. Use the toolbar Zoom button to size the images within the viewing area with an approximate 1" border. Figure 78
- q. Click the *Set Home* button. The AUTO-Carrier will move to the general location of image A1. *Figure 79*

<continued>



Figure 77



Figure 79



- r. Use keyboard arrow keys to bring the upper left corner of image A1 into the display area. Centering image A1 is not necessary.
- s. Click upper left corner of A1 with the special double arrow cursor that appeared. *Figure 80*
- t. The AUTO-Carrier will move to the right side of the fiche. Using the double arrow click anywhere on the top border of the image on the screen. *Figure 81*
- u. The fiche carrier will move to the area of the last image. If the whole last image is not visible on the screen, use the keyboard arrow keys to position the fiche so all four sides of the last image are visible. This should be the same image as the cell identifier from step k.
- v. Carefully move the green crop box around the last image. *Figure 82*
- w. In the *Create Virtual Grid* window, click on the *Create* button. Your new grid will now be configured for use.

<continued>







Figure 81

- x. Move about the *Virtual Grid* by clicking on various virtual grid cells to confirm the accuracy of the grid. Make sure the images fall completely within the image area. *Figure 83*
- y. Click the *Save Settings* button of the setup window to name and save this new preset. *Figure 84*





Figure 84

25. IMS Pro – Single Level Blips

Image Mark Sensing (IMS) Pro is only available on a ScanPro i9500 with an active ScanPro Advantage membership license key. A more basic IMS is available on a ScanPro i9500 without an active SPA membership license key. IMS (Pro) searches and scans or prints from 16mm film using Image Marks (blips), not borders, to identify image locations on the film.

- a. Launch the software then choose the Film Selection Wizard preset for 1-Level Simplex, or 1-Level Duplex, depending on the film.
- b. Load the film, following the on-screen animation. Click the blue *Load* button at the bottom of the screen.
- c. Adjust *brightness* and/or *contrast* so that the edge of the film is visible.
- d. If the film is not centered in the image area, use the keyboard up or down arrow key to center it.
- e. When clicking on the *IMS Pro* button for the first time, the *Calibrate Straightness* window appears. *Figure 85*
 - 1. If the film is perfectly horizontal click Accept.
 - If the film is not perfectly horizontal, click the *Calibrate* button. The cursor changes to a +. On the top edge of the film, click once on the left and once on the right. The cooresponding red line will be used to straighten the sensor. *Figure 86*
 - 3. Repeat if necessary. Otherwise, click Accept.
- f. Click the *IMS Pro* button again to open the *IMS Pro* window. *Figure 87*
- g. The red IMS track will appear on the bottom of the image area if IMS has been calibrated for *Channel A*. See "Section III.13 IMS Settings Window" for more information. Click the *Load* button in the *IMS Pro* window. The film will advance past the first few images, then will back up to the first Image Mark (blip).
- h. Alternatively, if film has already been loaded, and the blip currently on screen is a known value, use the Set button to manually enter the Image Counter window. Figure 88 Type in the current mark value, then click the Set button.
- i. The red IMS track should run through the center of the blips. The small vertical tick mark on the





Image Counter	×
Figure 88	

track is the approximate stopping position of the blip. This should be set so that the image is centered in the image area.

- Before moving the track/tick mark, center the IMAGE on the screen horizontally. Center the FILM vertically on the screen.
- Press and hold the *CTRL* button on the keyboard and left click on the leading edge of the blip, approximately in the vertical center. The red track and the tick mark will move to this position. *Figure 89*
- 3. Image Marks (blips) will stop approximately at this tick mark moving forward.
- j. The *Stop* button is used to instantly stop film motion, or to cancel any currently running IMS function.
- k. The *Target Address* field is used to navigate the roll of film. *Figure 90*
 - 1. To quickly advance to a particular image, type the Image Mark (blip) value in this field, then click the *Search* button.
 - 2. To scan a single document, type the blip value in this field, then click the Scan button.
 - 3. To scan a series of pages, type the range to be scanned (example: *4-257*), then click the *Scan* button.
 - 4. To scan all images on the film, input an asteric (*) into the field, then click the *Scan* button.
 - 5. To scan images from a particular page to the end of the film, type the address-* (example: 28-*), then click the Scan button.
 - 6. To print a single document, type the blip value in this field, then click the *Print* button.
 - 7. To print a series of pages, type the range to be scanned (example: *4-257*), then click the *Print* button.
 - 8. To print all images on the film, input an asteric (*) into the field, then click the *Print* button.
 - 9. To *Print* images from a particular page to the end of the film, type the address-* (example: 28-*), then click the *Print* button.
- The Verify check box can be used to ensure that an image(s) exist(s) and look correct before scanning. The ScanPro will move to the selected image, and the Scan button will turn yellow.

IMS Pro	×	
Load Si Present Addr	top Set ress 28 Page	
Begin Target Addre	End	
 ✓ Verify ✓ Straighten/Crop □ Straighten □ AB □ IMS Pro 		
Scan	Print	
Search		





Click the *Scan* button to move to the next image. *Figure 91*

- m. The Straighten/Crop check box enables/disables the auto-straighten and auto-cop function. If checked, the green capture box is ignored. If unchecked, the green capture box is used for capturing all scans. **NOTE**: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- n. The Straighten check box enables/disables the auto-straighten function. If checked, the software will attempt to straighten the image, then the green capture box will be used for capturing the scans. If unchecked, the green capture box is used for capturing all scans. NOTE: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- o. The AB check box enables/disables the autobrightness function. If checked, the software will attempt to set the brightness and contrast for every scan. NOTE: This will dramatically slow down the scanning process. If unchecked, the brightness and contrast set for the first image will be used for the entire roll.
- p. The *IMS Pro* checkbox enables/disables additional features for scanning film. This requires an active SPA membership. If this box is checked, when the *Scan* button is selected the *IMS Pro* window will open. *Figure 92*

1. *Prefix* specifies the filename prefix of the saved scans.

- 2. *File Path* specifies the location where the scan will be saved. Enter this location by typing or by using the *Browse…* button to navigate to the desired folder.
- 3. *File Type* specifies the file format of the saved scans.
- 4. *Multi-Page Options* are only available when a mulit-page file format is chosen.
 - *i. Max pages* specifies a maximum number of pages before a new file is started.
 - *ii.* Duplex grouping will be active if *IMS Pro* is configured for Duplex film. See "Section III.13 IMS Settings Window" for more information. This selection will make 2 page multi-page files with the front and back images in one file.

IMS Pro	>
Prefix	Roll #1000
File Path:	C:\Users\Public\Desktop\My
	Browse
File Type	PDF (multi-page) 🗸 🗸
Multi-page Option	IS CONTRACTOR
Max. pages	
Duplex group	ing
Figure 92	
Batch groupin	g
Cance	el OK

26. IMS Pro – Two Level Blips

Image Mark Sensing (IMS) Pro is only available on a ScanPro i9500 with an active ScanPro Advantage (SPA) membership license key. A more basic IMS is available on a ScanPro i9500 without an active SPA membership license key. IMS (Pro) searches and scans or prints from 16mm film using Image Marks (blips), not borders, to identify image locations on the film.

- a. Launch the software then choose the Film Selection Wizard preset for 2-Level Simplex, or 2-Level Duplex, depending on the film.
- b. Load the film, following the on-screen animation. Click the blue *Load* button at the bottom of the screen.
- c. Adjust *brightness* and/or *contrast* so that the edge of the film is visible.
- d. If the film is not centered in the image area, use the keyboard up or down arrow key to center it.
- e. When clicking on the *IMS Pro* button for the first time, the *Calibrate Straightness* window appears. *Figure 93*
 - 4. If the film is perfectly horizontal click Accept.
 - If the film is not perfectly horizontal, click the *Calibrate* button. The cursor changes to a +. On the top edge of the film, click once on the left and once on the right. The cooresponding red line will be used to straighten the sensor. *Figure 94*
 - 6. Repeat if necessary. Otherwise, click Accept.
- f. Click the *IMS Pro* button again to open the *IMS Pro* window. *Figure 95*
- g. The red IMS track will appear on the bottom of the image area if IMS has been calibrated for *Channel A*. See "Section III.13 IMS Settings Window" for more information. Click the *Load* button in the *IMS Pro* window. The film will advance past the first few images, then will back up to the first Image Mark (blip).
- h. Alternatively, if film has already been loaded, and the blip currently on screen is a known value, use the *Set* button to manually enter the *Image Counter* window. Type in the current mark value in the format *file.page* (1.0), then click the *Set* button. *Figure 96*
- i. The red IMS track should run through the center of the blips. The small vertical tick mark on the







Image Counter X Figure 96 track is the approximate stopping position of the blip. This should be set so that the image is centered in the image area.

- Before moving the track/tick mark, center the IMAGE on the screen horizontally. Center the FILM vertically on the screen.
- Press and hold the *CTRL* button on the keyboard and left click on the leading edge of the blip, approximately in the vertical center. The red track and the tick mark will move to this position. *Figure 97*
- 3. Image Marks (blips) will stop approximately at this tick mark moving forward.
- j. The *Stop* button is used to instantly stop film motion, or to cancel any currently running IMS function.
- k. The *Target Address* field is used to navigate the roll of film. *Figure 98*

- To quickly advance to a particular image, type the Image Mark (blip) value in this field in the format *file.page*, then click the *Search* button.
- 2. To scan a single document, type the blip value in this field in the format *file.page*, then click the Scan button.
- 3. To scan a series of pages, type the range to be scanned (example: 2.1-3.100), then click the Scan button.
- 4. To scan all images on the film, input an asteric.asteric (*.*) into the field, then click the *Scan* button.
- To scan images from a particular page to the end of the film, type the address-*.* (example: 4.1-*.*), then click the Scan button.
- 6. To print a single document, type the blip value in this field in the format *file.page*, then click the *Print* button.
- 7. To print a series of pages, type the range to be scanned (example: *2.1-3.100*), then click the *Print* button.
- 8. To print all images on the film, input an asteric.asteric (*.*) into the field, then click the *Print* button.

IMS Pro			×
Load	Stop		Set
Present A	ddres	s	
		1	0
	File	Page	e
Begin		En	d
Target Ac	Idress	5	
□ Verify			
☑ Straight	en/Cr	ор	
□ Straight	en		
Scan		Pri	nt 📗
Figure 08			

- 9. To print images from a particular page to the end of the film, type the address-*.* (example: 4.1-*.*), then click the *Print* button.
- The Verify check box can be used to ensure that an image(s) exist(s) and look correct before scanning. The ScanPro will move to the selected image, and the Scan buttom will turn yellow. Click the Scan button to move to the next image. Figure 99
- m. The Straighten/Crop check box enables/disables the auto-straighten and auto-cop function. If checked, the green capture box is ignored. If unchecked, the green capture box is used for capturing all scans. NOTE: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- n. The Straighten check box enables/disables the auto-straighten function. If checked, the software will attempt to straighten the image, then the green capture box will be used for capturing the scans. If unchecked, the green capture box is used for capturing all scans. NOTE: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- o. The AB check box enables/disables the autobrightness function. If checked, the software will attempt to set the brightness and contrast for every scan. **NOTE:** This will dramatically slow down the scanning process. If unchecked, the brightness and contrast set for the first image will be used for the entire roll.

Load Stop Set		
Present Address		
r reserre / idar ess		
2 ÷ 1 ÷		
File Page		
Begin End		
Target Address		
2.1-*.*		
☑ Verify		
Straighten/Crop		
Scan Print		
Search		

- p. The *IMS Pro* checkbox enables/disables additional features for scanning film. This requires an active SPA membership. If this box is checked, when the *Scan* button is selected the *IMS Pro* window will open. *Figure 100*
 - 1. *Prefix* specifies the filename prefix of the saved scans.
 - 2. *File Path* specifies the location where the scan will be saved. Enter this location by typing or by using the *Browse…* button to navigate to the desired folder.
 - 3. *File Type* specifies the file format of the saved scans.
 - 4. *Multi-Page Options* are only available when a mulit-page file format is chosen.
 - *i. Max pages* specifies a maximum number of pages before a new file is started.
 - *Duplex grouping* will be active if *IMS Pro* is configured for Duplex film. See "Section III.13 IMS Settings Window" for more information. This selection will make 2 page multi-page files with the front and back images in one file.
 - iii. File grouping allows the creation of multipage files based on the medium (File) sized blips on the film. If max pages is left blank, all pages with small (page) sized blips will be included in the file.

IMS Pro	×
Prefix	Roll #1000
File Path:	C:\Users\Public\Desktop\My
	Browse
File Type	PDF (multi-page) ~
Multi-page Options Max. pages	
Duplex grouping File grouping Batch grouping	
Cancel OK	

Figure 100

27. IMS Pro – Three Level Blips

Image Mark Sensing (IMS) Pro is only available on a ScanPro i9500 with an active ScanPro Advantage (SPA) membership license key. A more basic IMS is available on a ScanPro i9500 without an active SPA membership license key. IMS (Pro) searches and scans or prints from 16mm film using Image Marks (blips), not borders, to identify image locations on the film.

- a. Launch the software then choose the Film Selection Wizard preset for 3-Level Simplex, or 3-Level Duplex, depending on the film.
- b. Load the film, following the on-screen animation. Click the blue *Load* button at the bottom of the screen.
- c. Adjust *brightness* and/or *contrast* so that the edge of the film is visible.
- d. If the film is not centered in the image area, use the keyboard up or down arrow key to center it.
- e. When clicking on the *IMS Pro* button for the first time, the *Calibrate Straightness* window appears. *Figure 101*
 - 7. If the film is perfectly horizontal click Accept.
 - If the film is not perfectly horizontal, click the *Calibrate* button. The cursor changes to a +. On the top edge of the film, click once on the left and once on the right. The cooresponding red line will be used to straighten the sensor. *Figure 102*
 - 9. Repeat if necessary. Otherwise, click Accept.
- f. Click the *IMS Pro* button again to open the *IMS Pro* window. *Figure 103*
- g. The red IMS track will appear on the bottom of the image area if IMS has been calibrated for *Channel A*. See "Section III.13 IMS Settings Window" for more information. Click the *Load* button in the *IMS Pro* window. The film will advance past the first few images, then will back up to the first Image Mark (blip).





IMS Pro		×	
Load	Stop	Set	
Present Ad	Present Address		
1	0	0	
Batch Fi	ile I	Page	
Begin		End	
Target Address			
Verify			
☑ Straighten/Crop			
Straighter	n		
Scan		Print	
Search			
Figure 103			

- h. Alternatively, if film has already been loaded, and the blip currently on screen is a known value, use the *Set* button to manually enter the *Image Counter* window. Type in the current mark value in the format *Batch.file.page* (1.0.0), then click the *Set* button. *Figure* 104
- i. The red IMS track should run through the center of the blips. The small vertical tick mark on the track is the approximate stopping position of the blip. This should be set so that the image is centered in the image area.
 - Before moving the track/tick mark, center the IMAGE on the screen horizontally. Center the FILM vertically on the screen.
 - Press and hold the *CTRL* button on the keyboard and left click on the leading edge of the blip, approximately in the vertical center. The red track and the tick mark will move to this position. *Figure 105*
 - 3. Image Marks (blips) will stop approximately at this tick mark moving forward.
- j. The *Stop* button is used to instantly stop film motion, or to cancel any currently running IMS function.
- k. The *Target Address* field is used to navigate the roll of film. *Figure 106*
 - 1. To quickly advance to a particular image, type the Image Mark (blip) value in this field, then click the *Search* button.
 - 2. To scan a single document, type the blip value in this field in the format *Batch.File.page*, then click the Scan button.
 - 3. To scan a series of pages, type the range to be scanned (example: *1.1.1-3.1.10*), then click the *Scan* button.
 - 4. To scan all images on the film, input an asteric.asteric.asteric (*.*.*) into the field, then click the *Scan* button.
 - To scan images from a particular page to the end of the film, type the address-*.*.* (example: 1.2.10-*.*.*), then click the Scan button.
 - 6. To print a single document, type the blip value in this field in the format *Batch.file.page*, then click the *Print* button.



Figure 104







- 7. To print a series of pages, type the range to be scanned (example: *1.1.1-3.1.10*), then click the *Print* button.
- 8. To print all images on the film, input an asteric.asteric.asteric (*.*.*) into the field, then click the *Print* button.
- 9. To print images from a particular page to the end of the film, type the address-*.*.* (example: *1.2.10-*.*.*), then click the *Print* button.
- The Verify check box can be used to ensure that an image(s) exist(s) and look correct before scanning. The ScanPro will move to the selected image, and the Scan buttom will turn yellow. Click the Scan button to move to the next image. Figure 107
- m. The Straighten/Crop check box enables/disables the auto-straighten and auto-cop function. If checked, the green capture box is ignored. If unchecked, the green capture box is used for capturing all scans. NOTE: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- n. The Straighten check box enables/disables the auto-straighten function. If checked, the software will attempt to straighten the image, then the green capture box will be used for capturing the scans. If unchecked, the green capture box is used for capturing all scans. NOTE: The green capture box <u>will not</u> move to center an image within it. If the image stops outside this box, the portion outside the green box will not be captured.
- o. The AB check box enables/disables the autobrightness function. If checked, the software will attempt to set the brightness and contrast for every scan. NOTE: This will dramatically slow down the scanning process. If unchecked, the brightness and contrast set for the first image will be used for the entire roll.

IMS Pro				×
Load	Stop		Set	
Present	Addres	s		
1	•	1	1	•
Batch	File	Pa	ge	
Begin	n 🗌	E	nd	
Target Address				
1.1.1-2	.4.8			
☑ Verify				
☑ Straighten/Crop				
	-			
	0			_
Scan		P	rint	
Search				

Figure 107

- p. The *IMS Pro* checkbox enables/disables additional features for scanning film. This requires an active SPA membership. If this box is checked, when the *Scan* button is selected the *IMS Pro* window will open. *Figure 108*
 - 1. *Prefix* specifies the filename prefix of the saved scans.
 - File Path specifies the location where the scan will be saved. Enter this location by typing or by using the *Browse…* button to navigate to the desired folder.
 - 3. *File Type* specifies the file format of the saved scans.
 - 4. *Multi-Page Options* are only available when a mulit-page file format is chosen.
 - *i. Max pages* specifies a maximum number of pages before a new file is started.
 - Duplex grouping will be active if IMS Pro is configured for Duplex film. See "Section III.13 IMS Settings Window" for more information. This selection will make 2 page multi-page files with the front and back images in one file.
 - iii. File grouping allows the creation of multi-page files based on the medium (File) sized blips on the film. If max pages is left blank, all pages with small (page) sized blips will be included in the file.
 - *iv.* Batch Grouping allows the creation of multi-page files based on the large (Batch) sized blips on the film. If max pages is left blank, all pages with small (page) and medium (file) sized blips will be included in the file.

IMS Pro	×
Prefix	Roll #1000
File Path:	C:\Users\Public\Desktop\My
	Browse
File Type	PDF (multi-page) 🗸 🗸
Multi-page Option	15
Max. pages	
Duplex grouping	
File grouping	
Batch groupin	g
Cance	el OK

Figure 108

IV. Routine Care

There is no recommended scheduled maintenance for the ScanPro scanners. Periodically new software is released for the ScanPro. Sign up for automatic notifications or check the site (<u>www.e-</u><u>imagedata.com/scanpro-software</u>) periodically for updated software.

Occasional cleaning should be done when visibly necessary.

To clean the glass:

- a. Pull the fiche carrier forward until the glass is about to open but is still closed.
- b. Use a lint free cloth and glass cleaner, apply a light amount of cleaner to the cloth.
- c. Then carefully wipe the dust and debris off the top of the glass.
- d. Pull the fiche carrier forward until the glass opens fully.
- e. If necessary, apply a small amount of cleaner to the lint free cloth and carefully remove any dust or debris from the inside surfaces of the glass.
- f. There may be some dust on the bottom of the glass. If this is the case, carefully move the ScanPro to the edge of the table.
- g. Pull the fiche carrier all the way to the open position.
- h. Using the lint free cloth, carefully wipe the bottom surface of the glass.

If the machine is dusty, furniture polish and a lint free cloth can be used to clean the plastic and metal surfaces.

V. Troubleshooting Tips

1. Scanner Not Found Errors

- a. Ensure that the scanner is connected to a fully operational USB 3.1 port on the computer.
- b. Ensure that Windows updates are current, and USB 3.1 drivers are up to date.
- c. Disconnect the USB cable from the back of the ScanPro, then re-seat it. Ensure that the cable is orientated correctly. The USB symbol on the cable should be facing the floor.
- d. Verify the correct driver loaded by checking the Imaging Devices in the Device Manager. The correct driver should be *e-ImageData Corp. ScanPro*. If a *USB3 Vision Device* driver loaded instead, the ScanPro will not work. This is usually caused by the user account control settings and/or anti-virus not being disabled when the software was installed (see *Best Practices* in Section III.1.b). If a Vision driver loaded instead of e-ImageData do this:
 - 1. Go to Device Manager.
 - 2. Delete the USB 3 Vision Device driver.
 - 3. Right click on the USB 3.1 Host Controller and choose un-install. Make sure the box for *uninstall drivers* is unchecked and click OK.
 - 4. Click the *scan for hardware changes* button on the top of the screen. If mouse control was lost during step 4, then restart the computer.
 - 5. The ScanPro should now appear under imaging devices.

2. Software Runs Slow

Occasionally there are settings on the computer that can cause the PowerScan software to have lag, and the image refresh rate to be choppy.

- a. Add the PowerScan xxxx folders to the exceptions list of the Anti-Virus program.
 - 1. C:\ProgramData\PowerScan xxxx
 - 2. [64-bit OS] C:\Program Files (x86)\PowerScan xxxx or [32-bit OS] - C:\Progam Files\PowerScan xxxx
- b. Ensure that the computer has all the Windows Updates installed.
- c. For HP Computers, access the BIOS->OS POWER MANAGEMENT->IDLE POWER SAVINGS. Change this setting from *Extended* to *Normal*.
- d. Access the BIOS of the computer. Search for and disable ALL:
 - 1. C-States
 - 2. S-States
 - 3. Deep-Sleep-States

3. Film/Fiche Advance Movement Issues

Film will not advance or rewind

Check the connections on the Mini-Din cable(s) from back of Roll film/AUTO-Carrier to back of ScanPro base and see if it came loose or off one of the connectors. Placing a loop in the cable may help prevent the cable from hitting other cables, the wall, etc. and prevent future occurrences.

Film continues to move after control is stopped

Check to see if *Auto-Frame* box is checked on Roll Film Control. *Auto-Frame* requires vertical black borders to be visible on the screen. Adjust Zoom or un-check the box.

Film Movement not detected immediately when moving the glass carrier

- a. Ensure that you are using the most current software.
- b. Adjust the brightness and contrast. Low contrast can cause motion to not be detected.
- c. Press *CTRL* + *L* keys at the same time to make the image go live.

AUTO-Carrier chatters at either end of front/back motion

To operate correctly, the AUTO-Carrier must drive smoothly and consistently. If there is any chatter in the front to back motion, fiche motion will not operate correctly. Loosen the 2 mounting screws $\frac{1}{2}$ -1 full turn, then reset the ScanPro.