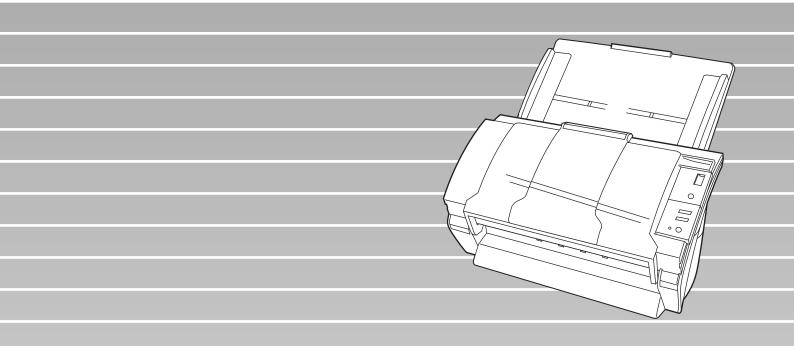
P3PC-1352-01ENZ0



fi-5530C Image Scanner Operator's Guide





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INTRODUCTION

Thank you for purchasing the fi-5530C Duplex Color Scanner.

This document describes how to handle fi-5530C and basic operation methods. Before you start using fi-5530C be sure to thoroughly read this manual to ensure correct use.

Regulatory Information

FCC declaration

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is located.
- •Consult your dealer or an experienced radio/TV technician.

FCC warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICEThe use of a shielded interface cable is required to comply with the Class
B limits of Part 15 of FCC rules.
The length of the AC cable must be 3 meters (10 feet) or less.

Canadian DOC Regulations

This digital apparatus does not exceed the Class B limit for radio noise emissions from digital apparatus set out in the Radio interference Regulations of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003.

Le pésent appareil numérique n'ément pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescridtes dans le Réglesment sur le brouillage radioélectrique dicté par le ministere des Communications du Canada.

Cet appareil numérique de la classe B est conformme à la norme NMB-003 du Canada.

Bescheimigung des Herstellers / Importeurs

Für den fi-5530C wid folgendes bescheinigt:

- •In Übereinsstimmung mit den Bestimmungen der EN45014(CE) funkentstört
- •Maschinenlärminformationsverordnung 3.GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger, gemäß EN ISO 7779.

International ENERGY STAR® Program

As an ENERGY STAR[®] Partner, PFU LIMITED has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

The International ENERGY STAR[®] Office Equipment Program is an international program that promotes energy saving through the penetration of energy efficient

computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices. Their

standards and logos (any) are uniform among participating nations.

■Note, Liability

READ ALL OF THIS MANUAL CAREFULLY BEFORE USING THIS PRODUCT. IF THIS PRODUCT IS NOT USED CORRECTLY, UNEXPECTED INJURY MAY BE CAUSED TO USERS OR BYSTANDERS.

Also, keep this manual in a safe place so that it can be easily referred to during use of this product.

While all efforts have been made to ensure the accuracy of all information in this manual, PFU assumes no liability to any party for any damage caused by errors or omissions or by statements of any kind in this manual, its updates or supplements, whether such errors are omissions or statements resulting from negligence, accidents, or any other cause. PFU further assumes no liability arising from the application or use of any product or system described herein; nor any liability for incidental or consequential damages arising from the use of this manual. PFU disclaims all warranties regarding the information contained herein, whether expressed, implied, or statutory.

Use in High-safety Applications

This product has been designed and manufactured on the assumption that it will be used in office, personal, domestic, regular industrial, and general-purpose applications. It has not been designed and manufactured for use in applications (simply called "high-safety applications" from here on) that directly involve danger to life and health when a high degree of safety is required, for example, in the control of nuclear reactions at nuclear power facilities, automatic flight control of aircraft, air traffic control, operation control in mass-transport systems, medical equipment for sustaining life, and missile firing control in weapons systems, and when provisionally the safety in question is not ensured. The user should use this product with adopting measures for ensuring safety in such high-safety applications. PFU LIMITED assumes no liability whatsoever for damages arising from use of this product by the user in high-safety applications, and for any claims or compensation for damages by the user or a third party.

About the use of mercury



Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state, or federal laws.

To avoid unexpected injuries;

- •Do not put the substance contained in the lamp in your mouth as it has mercury.
- •Do not breathe the chemical liquid contained in the scanner lamps.
- •Do not incinerate, crush, or shred the lamps or scanner parts.

Trademarks

Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries.

ISIS, QuickScan and their respective logos are trademarks or registered trademarks of Pixel Translations, a division of Captiva Software Corporation in the United States.

Adobe, the Adobe logo, and Acrobat are either registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Other product names are the trademarks or registered trademarks of the respective companies.

How Trademarks Are Indicated In This Manual

References to operating systems (OS) are indicated as follows:

Windows 95	Microsoft [®] Windows [®] 95 operating system
Windows 98	Microsoft [®] Windows [®] 98 operating system.
Windows Me	Microsoft [®] Windows [®] Millennium Edition operating system.
WindowsNT 4.0	Microsoft [®] Windows NT [®] 4.0 Server operating system, Microsoft [®] Windows NT [®] 4.0 Workstation operating system.
Windows 2000	Microsoft [®] Windows [®] 2000 Professional operating system.
Windows XP	Microsoft [®] Windows [®] XP Professional operating system, Microsoft [®] Windows [®] XP Home Edition operating system.

Where there is no distinction between the different versions of the above operating system, the general term "Windows " is used.

Adobe Acrobat $Adobe^{\mathbb{R}} Acrobat^{\mathbb{R}}$

All the descriptions in this manual assume the usage of Adobe Acrobat bundled with this product. However, Adobe Acrobat may be upgraded without notice. If the descriptions differ from the screens actually displayed, refer to the Acrobat's "Help".

Manufacturer

PFU LIMITED

International Sales Dept., Imaging Business Division, Products Group Solid Square East Tower, 580 Horikawa-cho, Saiwai-ku, Kawasaki-shi Kanagawa 212-8563, Japan Phone : (81-44) 540-4538

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About Maintenance

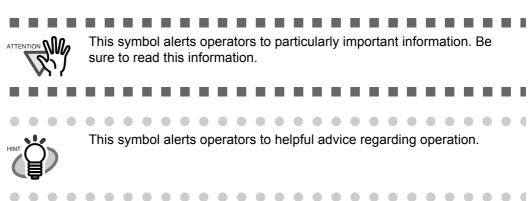
The user must not perform repairs on this scanner.

Contact the store where you purchased the scanner or an authorized FUJITSU Image Scanner service provider to make repairs to this product.

Warning Indications Used In This Manual

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury or death.
This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.

Symbols Used In This Manual





A TRIANGLE symbol indicates that special care and attention is required. The drawing inside the triangle shows the specific caution.

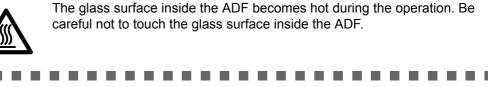
A CIRCLE with a diagonal line inside shows action which users may not perform.

The drawing inside or under the circle shows the specific action that is not allowed.

Outline characters on a colored background show instructions users should follow.

It may also include the drawing that shows the specific instruction.

Warning Label



Do NOT remove from the scanner, stain or scratch the warning labels.

Screen Examples In This Manual

The screen examples in this manual are subject to change without notice in the interest of product improvement. If the actual displayed screen differs from the screen examples in this manual, operate by following the actual displayed screen while referring to the User's Manual of the scanner application you are using.

The screenshots in this manual were captured from FUJITSU TWAIN32 scanner driver, ScandAll 21 Image Capturing Utility Software, FUJITSU ISIS scanner driver, QuickScan Pro[™] image capturing software and Adobe[®] Acrobat[®].

Safety Precautions

MWARNING

Do not damage the AC cable.



A damaged AC cable may cause fire or electric shock. Do not place heavy objects on AC cables, or pull, bend, twist, heat, damage or modify AC cables. Do not use damaged AC cables or power plugs, or install any cables or power plugs to loose wall sockets.

Use only specified AC cables and connector cables



Use only specified AC cables and connector cables. Failure to use the correct cables might cause electric shock and/or equipment failure.

Please don't use the AC cable provided with this scanner for other devices, since this might cause equipment failure and other troubles or an electric shock.

Use this scanner only at the indicated power voltage. Do not connect to multiple-power strips.



Use this scanner only at the indicated power voltage and current. Improper power voltage and current might cause fire or electric shock. Do not connect to multiple-power strips.

Do not touch the AC cable with wet hands.

Do not touch the power plug with wet hands. Doing so might cause electric shock.



Wipe any dust from the power plug.



Wipe off any dust from metal parts on the power plug or metal fittings with a soft, dry cloth. Accumulated dust might cause fire or electric shock.

Do not install the device in locations that has oil smoke, steam, humidity, and dust.



Do not install the scanner in locations subject to oil smoke, steam, humidity, and dust. Doing so might cause a fire or electric shock.

Turn the scanner OFF if it is damaged.



If the scanner is damaged for any reason, disconnect immediately the power plug in order to turn out the scanner. Contact the store where you purchased the scanner.

Do not put liquids inside the scanner.



Do not insert or drop metal objects in to the scanner. Do not scan wet documents or documents with paper clips or staples. Do not splash or allow the scanner to get wet.



If foreign objects (water, small metal objects, liquids, etc.) get inside the scanner, immediately turn off the scanner and disconnect the power plug from the power outlet, then contact the store where you bought the scanner or the Maintenance Service Center. Pay particular attention to this warning in households where there are small children.

Do not touch the inside of the scanner unless necessary.



Do not take apart or modify the scanner. The inside of the scanner contains high-voltage components. Touching these components might cause fire or electric shock.

Do not use the scanner if there is a strange odor.



If you detect excessive heat coming from the device or detect other problems such as smoke, strange smells or noises, disconnect immediately the power plug in order to turn out the scanner. Make sure that any smoke coming from it has stopped, before contacting the store where you bought the scanner or an authorized FUJITSU scanner service provider.



Do not install the scanner on unstable surfaces.



Make sure that the scanner is installed on a flat, level surface and that none of its parts extend beyond the surface top, such as a desk or table. Do not install the scanner on unstable surfaces. Install the scanner on a level surface that is free of vibration to prevent it from falling.

Install the scanner on a strong surface that will support the weight of the scanner and other devices.

Do not block the ventilation ports.



Do not block the ventilation ports. Blocking the ventilation ports generates heat inside of scanner, which may results in fire or scanner failure.

Do not place heavy objects or stand on top of the scanner.



Do not place heavy objects on the scanner or use the scanner's surface top to perform other work. Improper installation might cause injuries and equipment failure.

Firmly insert the power plug.



Firmly insert the power plug as far it can go into the power outlet.

Avoid any contact when scanner is in use.



Avoid touching any scanner mechanism during scanning since this may cause injuries.

Do not use the scanner immediately after moving it from a cold place into a warm room.



Do not use the device immediately after moving it from a cold place into a warm room. This may cause condensation, which might lead to scanning errors. Let the device dry about one or two hours before you use it.

Before moving the scanner, disconnect the power plug from the power outlet.



Do not move the scanner with the power and interface cables connected as this might damage the cables, causing fire, electric shock or injuries. Before moving the scanner, be sure to disconnect the power plug from the power outlet, and all other data cables. Make sure that the floor is free of any obstruction.

Protect the scanner from static electricity.



Install the scanner away from strong magnetic fields and other sources of electronic noise. Also, protect the scanner from any static electricity as this might cause the scanner to malfunction.

Do not use aerosol sprays near the scanner.



Do not use aerosol sprays to clean the scanner. Aerosol sprays cause dirt and dust to enter the scanner, resulting scanner failure and malfunction.

Disconnect the power plug from the power outlet when the scanner is not used for a long period of time.



When the scanner is not going to be used for a long period of time, be sure to disconnect the power plug from the power outlet for safety.

Do not install the scanner in the direct sunlight.



Do not install the scanner under direct sunlight or near heating apparatus. Doing so might cause excessive heat to build up inside the scanner, which can cause scanner trouble or even fire. Install the scanner in a well-ventilated location.

Chapter 1

BASIC SCANNER OPERATIONS

This chapter describes basic scanner operations.

In this chapter Windows XP screenshots are illustrated.

The screens and operations may differ slightly if the OS you are using is not Windows XP. Also, when FUJITSU TWAIN32 is updated the screens and operations noted in this chapter will differ slightly.

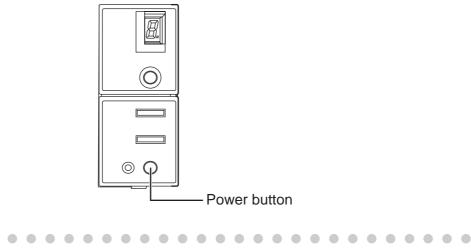
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1.1 Turning the Scanner ON

1. Press the power button on the operator panel.

The scanner is turned ON, and the green LED on the operator panel lights. During the initialization, the indication of the Function Number Display changes as follows: "8"->"P" -> "0" -> "1"

The indication "1" means that the operator panel is in the ready status.





To turn the scanner OFF, hold the power button down for two seconds.

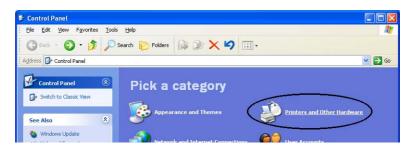
■ About Power ON/OFF Control

You can select to power the scanner on/off either by pressing the Power button, or by connecting / disconnecting the AC cable. The procedure is as follows.

1. Open Scanner's Properties.

•For Windows 98 / Windows Me / Windows 2000 / Windows XP

- 1) When turning on the power, check that the scanner is connected to your PC. Refer to "2.2 Connecting the Scanner to a PC" in fi-5530C Getting Started on the CD-ROM for information about connecting the scanner to your personal computer.
- 2) Double click the "Printer and Other Hardware" icon on the Control panel of your PC.



- \Rightarrow The [Printer and Other Hardware] window appears.
- 3) On the [Printers and Other Hardware] window, double click the [Scanners and Cameras] icon.

ile Edit View Favorites Too	
🌀 Back 🔹 🜍 🔹 🍠 🔎	Search 🎼 Folders 🎼 🎲 🗙 🏹 💷 🗸
dress 📴 Printers and Other Hardwa	are
See Also	Printers and Other Hardware
Add Hardware Display Sounds, Speech, and Audio Devices Power Options Jystem	Pick a task Yiew installed printers or fax printers Add a printer
Troubleshooters	or pick a Control Panel icon
Printing Home or Small Office Networking	🖗 Game Controllers 🛛 🎳 Keyboard
Networking	Mouse Phone and Modern Options
	Printers and Faxes

- \Rightarrow The [Scanners and Cameras] window is displayed.
- 4) Right click the "fi-5530Cdj", and select [Properties] from the menu.

Scanners and Cameras	
File Edit View Favorites Tools	Help
3 Back 🔹 🕤 🕤 🍺 🔎 Search	🏷 Folders 🛛 🔛 🕶
Imaging Tasks	Fi-5530Cdj
3 Add an imaging device	

- \Rightarrow The [fi-5530Cdj Properties] dialogbox appears.
- 5) Click the "Device Set" tab.

fi-5530Cdj #2 Pr	operties		? 🔀
Device Set	About	Color	Management
General	Events	Diagnosis	Device Info
i-55300	Cdj		
Manufacturer:	FUJITSU		
Model:	fi-5530Cdj		
On Port:	¥¥.¥Scanner0		
Status:	Device Ready		
	jest Scanner or Came	a	
	ОК	Cancel	

ĺ

 \Rightarrow The following screen appears.

General	Eve	ents		nagement
Diagnosis	Device In	fo	Device Set	Abou
Page Counter:				
Total Page Cou	unt(ADF):	170	pages	
			pages	
Pad :	Í	0	pages	<u>C</u> lear
Pick Roller :	Ĺ	0	pages	Clear
	Ĺ		pages	Clear
	i i			Clear
Power saving: /			_, [1	5 minutes

•For Windows 95 / Windows NT 4.0

- 1) When turning on the power, check that the scanner is connected to your PC.
- 2) Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".
- 3) Click "Device Setting" tab.
 ⇒ The following screen is displayed.

ommon Device Inc Device	e Setting)	
Page Counter: Total Page Count(ADF):	490	pages	
Forder age country of the			
		pages	0
Pad:	0	pages	<u>C</u> lear
Pick Roller:	0	pages	Cl <u>e</u> ar
		pages	Clear
Γ		%	Clear
Power saving:		15	minutes

2. Click [Power Control] button

 \Rightarrow The following screen is displayed.



- 3. In this screen,
 - To power on/off the scanner by pressing the Power button:
 ⇒ Select "Enable power switch".
 - To power on/off the scanner by connecting/disconnecting the AC cable:
 ⇒ Select "Disable power switch".

■ Power Save Mode

The Power Save mode keeps the scanner in a low-powered state if no operation is performed on the scanner for 15 minutes after it has been turned ON. The scanner is automatically switched to the Power Save mode.

In the Power Save mode, the indication of the Function Number Display on the operator panel goes out, while the green LED is kept lit.

To return the scanner from the Power Save mode, perform one of the following operations:

- Load documents on the ADF paper chute.
- Press any button on the operator panel. The scanner will be turned OFF when pressing down the power button for two seconds.
- Execute a command from the scanner driver.

1.2 Loading Documents on the ADF for Scanning



For details about document specifications for ADF, refer to Chapter6 "DOC-UMENT SPECIFICATIONS FOR ADF" (page 101).

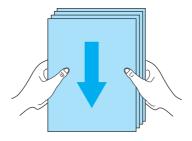
- 1. Align the edges of the documents.
 - 1) Confirm that all the documents have the same width.
 - 2) Check the number of the sheets in the document stack.
 - The standard number of sheets that can be loaded on the scanner is as follows:
 - A4-size paper or smaller that makes a document stack of 10mm or less (100 sheets at 80 g/m² or at 20 lb)
 - Over A4-size paper that makes a document stack of 5mm or less (50 sheets at 80 g/m² or at 20 lb)
- 2. Fan the documents as follows:
 - 1) Lightly grip both ends of the documents with both hands, and bend the documents as follows.



2) Hold the documents firmly with both hands and bend them back as follows so that the bent section rises up in the middle of the stack as shown below.

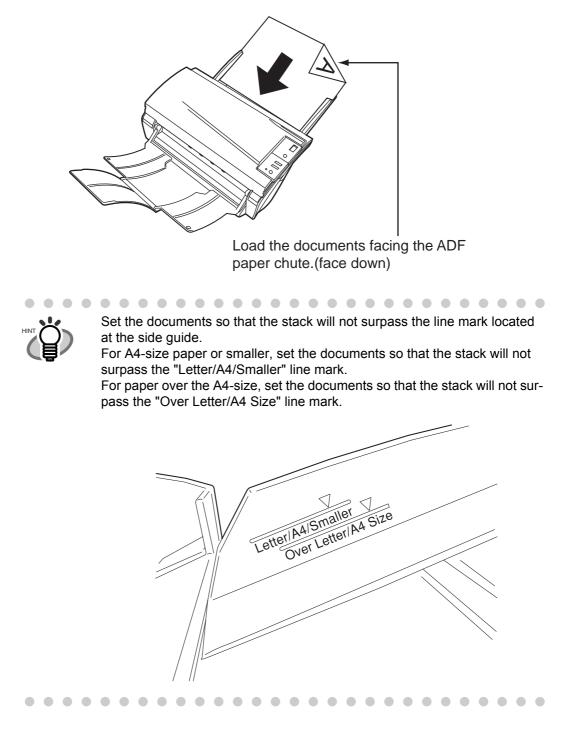


- 3) Repeat steps 1) and 2) a couple of times.
- 4) Rotate documents 90 degrees, and fan again.
- 3. Align the top of the documents.



4. Load the documents on the ADF paper chute.

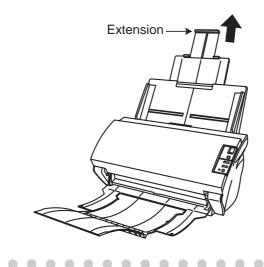
Set the documents face-down in the ADF paper chute (so that the side to be scanned faces towards the ADF paper chute).





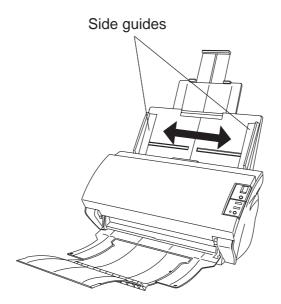
. . .

Before loading pull out the ADF paper chute extension according to the lengths of the documents.



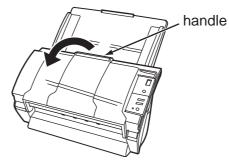
5. Adjust the side guides to the width of the documents.

Move the side guides so that they touch both sides of the documents. If there is any clearance between the side guides and the edges of documents, the scanned image may be skewed.

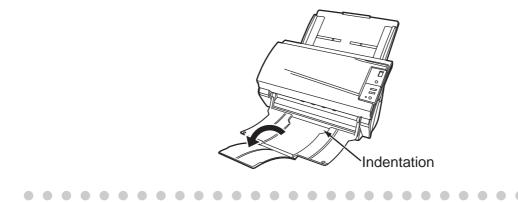


The stacker prevents document sheets from dropping after they were scanned. Use the stacker as follows:

- Use the stacker as follows:
 - 1. Lift up the stacker towards you by inserting your fingertips into the handle on the scanner.



2. Lift the paper stop and swing forward by inserting your fingertips into the indentations on the stacker.



6. Start up the scanner application and scan the documents.

For details on how to scan documents using the ScandAll 21 application, refer to "1.3 Scanning Documents" on page 10.

1.3 Scanning Documents

This section explains how to scan documents using Scandall21 as an example.

1. Load documents on the scanner's ADF paper chute.

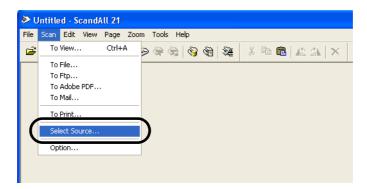
For details about loading documents, refer to "1.2 Loading Documents on the ADF for Scanning" on page 6.

2. Start up ScandAll 21.

Select [Start] - [Program] - [Scanner Utility for Microsoft Windows] - [ScandAll 21]. \Rightarrow This starts up ScandAll 21.

3. Select the scanner to use.

Select [Select Source] from the [Scan] menu.



 \Rightarrow The [Select Source] dialog box appears.

Select "FUJITSU fi-5530Cdj" (for Windows 95 and WindowsNT 4.0, select "FUJITSU TWAIN 32") and click the [Select] button.

Select Source	X
Sources: FUJITSU fi-5530Cdj 9.11 (32-32) WIA-fi-5530Cdj 1.0 (32-32)	
	Select
	Cancel

4. Click the [Scan To View] button on the tool bar.



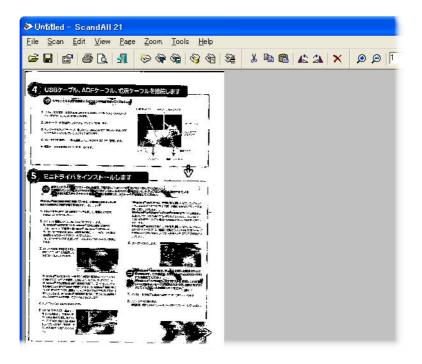
 \Rightarrow The [TWAIN Driver] dialog box (for setting the scan conditions) appears.

5. Set the scan resolution, paper size, etc., and click the [Scan] button.

For details on settings in the [TWAIN Driver] dialog box, refer to "How to use the Scanner Driver" on page 9.

0 100 200 Image Scanner: fir5530Cdj 64MB Browse 0 Setting Files: 00 : Current Setting Config 100 Setting Files: 00 : Current Setting Config 100 Setting Files: 00 : Current Setting Config 100 Setting Files: 00 : Current Setting Scan Type: 100 Solor + Good Solor + Good Paper Size: 100 Predefine Image Scanner: fir5530Cdj GdMB
200 Enable Software IPC Front Individual Setting Image Mode: Brightness:
400 Image: Contrast mark Image:
TWAIN driver. Press [F1] key to show help. Data Size about: 1.1MI

 \Rightarrow The images of scanned documents are displayed on the [ScandAll 21] window.



For details on different types of scanning, refer to "2 SCANNING VARIOUS TYPES OF DOCUMENTS" on page 27.

For details on functions and operations of ScandAll 21, refer to the description in the [Help] menu.

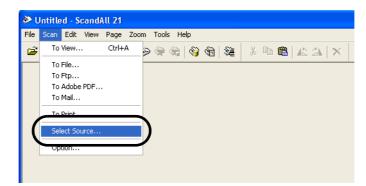
1.4 How to use the Scanner Driver

■ FUJITSU TWAIN32 Scanner Driver

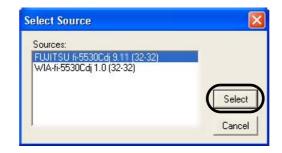
FUJITSU TWAIN32 Scanner Driver is designed for scanning documents with FUJITSU image scanner fi series by using application software that complies with the TWAIN standard. The following describes the procedure with examples of ScandAll 21 for ordinary scanning by using this driver.

- 1. Procedure for Basic Scanning Operation
 - Startup the application. From the [Start] menu, select [Programs]-[Scanner Utility for Microsoft Window] and click [ScandAll 21].
 - 2) Select your scanner on the window below.

Select [Select Source] from the [Scan] menu.



3) Select the scanner to use, then click the [Select] button.



Select

• [FUJITSU fi-5530C] for Windows 98, Windows Me, Windows 2000 and Windows XP

or

- [FUJITSU TWAIN32] for Windows 95 and Windows NT 4.0 then click the [Select] button.
- 4) Load the documents on the scanner.

For details on loading documents, refer to "1.2 Loading Documents on the ADF for Scanning" on page 3.

5) Open the TWAIN Driver window.

Select [Scan To View] from the [Scan] menu.



- [To Microsoft SharePoint Portal Server...] :Transfers scanned images to Microsoft Share Point Portal Server.
- [To Mail...] :Launches mailer software and attaches scanned images to email.

For details, refer to the [Help] menu.

.

6) Configure settings for scanning and click the [Scan] button.

TWAIN Driver (32)	200	Image Scanner: fi-5530Cdj	64MB	Browse.
		Setting Files: 00 : Current S Resolution 300 × 300 Predefine Predefine	Setting Scan Type: ADF (Front Side) Paper Size:	Config.
		Enable Software IPC Front Image Mode: Black & White	Individual Setting Bightness:	
юо Scanning Area[mm]		Black/White: Static Threshold Halftone:	Threshold:	128
Left: 0 Width: 210	Top: 0 Length: 297		- <u> </u>	128
Scan	Preview			Ivance

For details about the settings on this window, refer to "Setting Window for FUJITSU TWAIN32 Scanner Driver" on page 15.

File Scar	n Edit View Page Zoom Tools Help				
🖻 🔒	🖆 🎒 🕼 🚮 😓 🖗 🆓 😚 🖗	ሯ 🖻 🛍	18 2N 🗙	€ 🔎 19.4%	•
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	tendently you may need for the following or your segmentations. These charactery,				
	Phil.				
	р., 1993) Землу Семли - Ресульсь Зеристої.				
5.1	Bagement & Carton, Sandon Marcard (2011, Valence, Sandon, Basa				

 \Rightarrow The images of scanned documents are displayed on the [ScandAll 21] window.

Depending on the settings of the application software, images may not be displayed. For details, refer to the documentation or Help file of your application.

- e.x.) When you select [To File...] from the [Scan] menu of ScandAll 21, images of scanned documents are not displayed on the window.
- 7) Save the scanned images.

Select [Save As...] from the [File] menu to save the scanned images. If you wish to start another scanning, return to procedure 4).

8) End ScanndAll 21.

Select [Exit] from the [File] menu.

- La TWAIN Driver (32) Image Scanner: fi-5530Cdi 64MB Browse ... Setting Files: 00 : Current Setting -Config... Resolution Scan Type: ADF (Front Side) 300 x 300 • Paper Size dpi • A4 (210x297mm) Predefine Enable Software IPC Front 📕 Individual Setting Image Mode Brightness 128 AE Black & White • Black Av/hite Threshold 128 Static Threshold -Scanning Area[mm] Contrast 0 Left 0 Top: 128 297 210 Width Lenath: Advance Scan Preview Close Reset Option Help About WAIN driver. Press [F1] key to show help. Data Size about: 1.1MB
- 2. Setting Window for FUJITSU TWAIN32 Scanner Driver

You can set the FUJITSU TWAIN32 Scanner Driver on this window.

The following describes the main setting items.

- For details on each functions, refer to "FUJITSU TWAIN32 Scanner Driver Help" (appears by pressing [Help] or [F1] button).
- Depending on the type of your scanner, available settings or range of setting values vary.

Resolution

Specifies the resolution of scanning.

It can be specified by selecting from the list a default value or "custom" (specifies any resolution in 1 dpi unit).

By marking the [Predefine] checkbox, you can select one from three predefined settings as [Best, [Better] and [Normal] to scan documents instead of setting details by yourself. Otherwise, you can change the predefined settings of [Best, [Better] and [Normal] by clicking the [...] button.

Scan Type

Specifies the feeding method, the side(s) to be scanned (Front Side, Back Side, Duplex) or details of Long page (the size of documents longer than A3).

Paper Size

Selects the size of documents to be scanned from the list.

Windows for customizing the paper size will appear when you click on [...] by the list. You can save any document size as a customized setting (up to three) or for changing the order of the paper size in the list.

Image Mode

Specifies the image type for the scanned documents.

	Decuments are seened in himsey (hisely and white)
Black & White	Documents are scanned in binary (black and white).
Halftone	Documents are scanned through halftone process-
	ing in black and white.
Grayscale	Documents are scanned in gradations from black to
	white. For this mode you can select 256 gradations
	or 4 bit (16 gradations).
Color	Documents are scanned colored. For this mode, you
	can select 24 bit Color, 256Color or 4 bit Color.

[Scan] button

Starts scanning documents with the current settings.

[Preview] button

Documents are scanned preliminarily before the actual scanning. You can confirm the image of the documents in the preview window.

[Close] button

Saves the current settings and closes this window.

[Reset] button

Used to undo changes of settings.

[Help] button

Opens the "FUJITSU TWAIN32 Scanner Driver Help" window. The window also opens by pushing the [F1] key.

[About...] button

Opens an information window about the FUJITSU TWAIN32 Scanner Driver's version.

[Option...] button

You can set up the details of optional functions on the window below.

Rotation Job/Cache Generic Startup Filter Compressio	р) ОК
Flip Side Rotation	Cance
	Help
Rotation	
<u>R</u> otation Degree:	
0.0 degree	
A describe Cies and Channelshareking	
Automatic Size and Skew detection : Disable	
Disable	
Disable	
Disable	

[Rotation] tab

Select this tab when setting image rotation, detection of document size, etc.

[Job/Cache] tab

Select this tab when setting cache mode, multi feed detection, blank page skipping, etc.

[Generic] tab

Select this tab to change the unit displayed on the Setting Window for the FUJITSU TWAIN32 Scanner Driver. (Millimeters, Inches, and Pixels are available)

[Startup] tab

Select this tab for setting the Scanner Operation Panel.

[Filter] tab

Select this tab for setting the image processing filter(s). Page Edge Filler: Fills up the margins of the scanned documents with a selected color.

Digital Endoser: A character string, such as the alphabet and numbers, can be added in the scanned document.

[Compression] tab

Select this tab for setting the compression rate of JPEG Transfer.

[Advance...] button

Click this button for settings of the advanced image processing. You can set Edge Extract, Gamma Pattern, Dropout Color, Reverse, etc.

[Config...] button

Click this button for configuring the Setting Files. You can save the changed settings as a Setting File. From next scanning, the settings are quickly changed by using these Setting Files.

For details of each function, refer to the "FUJITSU TWAIN32 Scsnner Driver Help".

■ FUJITSU ISIS Scanner Driver

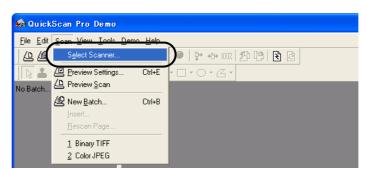
FUJITSU ISIS Scanner Driver is designed for scanning documents with FUJITSU image scanner fi series by using application software that complies with The ISIS standard.

The following describes the procedure with examples of QuickScan for ordinary scanning by using this driver.

The procedure may vary depending on your application. If you use an application other than QuickScan, please refer to its Guide or Help for further information.

- 1. Procedure for Basic Scanning Operation
 - Startup the application.
 From the [Start] menu, select [Programs]-[QuickScan] and click [QuickScan].
 - 2) Select your scanner on the window below.

Select [Scan] - [Select Scanner] on the menu bar.



3) Select fi-5530C, then click the [OK] button.

icanner:	(OK
Fujitsu fi-4110CU Fujitsu fi-4120C Fujitsu fi-4220C Fujitsu fi-4240C		Cancel
Fujitsu fi-5530C		
Fujitsu fi-4750C Fujitsu fi-4750L	× _	Setup

4) Select [Scan] - [New Batch] on the menu bar.

5) Select the profile for scanning.

lew Batch	
Select a Profile	
<use preview="" settings=""> Binary TIFF</use>	Add Profile
Color JPEG	Edit Profile
Grayscale JPEG	Delete Profile
,	
24 bit color scanning saved as JPEG Path: e-\Documents and Settings\furuse\My Documents	Browse
Eile Name: untitled.jpg	
First Batch Continue Batch Custom Batch Custom Batch	
<u>S</u> can	

- When creating a new profile Select one from already existing profiles and click [Add Profile...] button.
 - \Rightarrow A new profile will be created based on the profile you select.
- When changing the settings of already existing profiles
 Select one from already existing profiles and click [Edit Profile...] button.
 ⇒ The settings of the selected profile can be changed.
- When using an existing profile
 Select the one from an already existing profiles
 ⇒ The scanning will be started according to the settings of the selected profile.

Go to the procedure 9.

- 6) Open the window of ISIS Driver.
 - Select the [Scan] tab and click the [Scanner Settings] on the [Profile Editor] window.

ofile Editor		
General Output Scan Job Sepa	aration IP Logging	
Pages are <u>B</u> otated		
Advanced Options <u>B</u> efore Sca	n	
Advanced Options During Sca	n	
🔽 Use <u>f</u> latbed if feeder is empty		
Sides © Simplex		
C Duplex if Available		
Save scanner settings after sca	an	<u>S</u> canner Settings
	ОК	Cancel

 \Rightarrow The configuration window of ISIS driver appears.

7) Configure settings for scanning and click the [OK] button.

mage <u>M</u> ode	Scan <u>T</u> ype	<u>Side</u>
Black & White 📃	Automatic	Both Both Solution Solut
Resolution 200 -	Paper Size:	C Front
Use Advanced DTC	Scanner's Maximum	C Back
<u>H</u> alftone	Paper Layout	
None	Portrait C Landscape	<u>Mo</u> re
Pattern	r Feed	<u>A</u> rea
	- Top edge first	Imprint <u>e</u> r
Brightness	ତ	JPEG
Manual Automatic	c 🗏 c	Abo <u>u</u> t
		Setup [PC
Dar <u>k</u> en <u>N</u> ormal Lighten	C	
Contrast	Automatic Size and Skew Detection	
C Manual C Automatic	Priority (D):	
Auto	Speed Accuracy	Fujitsu Online

For details on this dialog box, refer to "Configuration Window of FUJITSU ISIS Scanner Driver" on page 21.

8) The [Profile Editor] window appears. Click the [OK] button to return to [New batch] dialog.



Configure other settings of the profile, if necessary. Refer to the "QuickScan Overview" or the "QuickScan Help" for further information on functions and operations of QuickScan. After the installation of QuickScan, it is registered in the [Start] menu.

9) Load the documents on the scanner.

10) Click the [Scan] button.

New Batch				
Select a Profile 	Add Profile			
Color JPEG Grayscale JPEG	<u>E</u> dit Profile <u>D</u> elete Profile			
24 bit color scanning saved as JPEG				
Path: e:\Documents and Settings\furuse\My Documents Eile Name: untitled.jpg	Browse			
First Batch C Continue Batch C Custom Batch Description				
<u>S</u> can	<u>C</u> ancel			

 \Rightarrow Scanned images are displayed on the window.

Refer to the "QuickScan Overview" or the "QuickScan Help" for further information on functions and operations of QuickScan. After the installation of QuickScan, it is registered in the [Start] menu.

Image <u>M</u> ode	Scan <u>T</u> ype	<u>Side</u>
Black & White	Automatic	💌 🕫 Both
Resolution 200	Paper Size:	C Front
Use Advanced DTC	Scanner's Maximum	C Back
Halftone	Paper Layout	
None	Portrait C L	andscape More
Pattern	r Feed	Area
	Top edge first	Imprint <u>e</u> r
Brightness	0	JPEG
Manual C Automa		Abo <u>u</u> t
		Setup IPC
Dar <u>k</u> en <u>N</u> ormal	Lighten	
Contrast	Automatic Size and Skew	Detection
C Manual C Automa	atic Priority (D):	- Decentry
I I	Auto	Fujitsu Online
	Speed	Accuracy

2. Configuration Window of FUJITSU ISIS Scanner Driver

Image Mode

Selects a color mode suitable for the purpose from the menu.

Black & White	Scans data in binary (black and white). Distin- guishes black from white according to the fixed threshold. This scanning mode is suitable for scan- ning line drawings and text documents.
16-level Grayscale	Scans data by 14 shades of gray plus black and white. This mode uses 4 bits per pixel.
256-level Grayscale	Scans data by 254 shades of gray plus black and white. This mode uses 8 bits per pixel. This mode is switable for scanning monochrome photographs.
24-bit Color	Scans data as full-colored image using 24 bits per pixel. This mode is suitable for scanning color photographs.
Image Processing	Binary processing is applied to the scanned images This mode is available only when Image Processing Software Option (separately sold) is installed. Please refer to the "User's Guide of Image Process- ing Software Option" for details.

Resolution

Specifies the number of pixels (dots) per inch.

Select a fixed resolution from the list or enter any value (from 50 to 600) manually. A higher resolution produces finer image, but requires much more memory.

Í

Halftone

Selects the halftone pattern for halftone scanning. This setting is available when "Black & White" is selected in the "Image Mode".

Dither Pattern 0	This setting is suitable for scanning dark photo- graphs.
Dither Pattern 1	This setting is suitable for scanning dark-colored documents containing both text and photographs.
Dither Pattern 2	This setting is suitable for scanning light photo- graphs.
Dither Pattern 3	This setting is suitable for scanning light-colored documents containing both text and photographs.
Error Diffusion	This function minimizes differences of color levels due to subtractive color process by diffusing the dif- ference to the adjacent pixels. This mode is suitable for scanning images of photographs, etc.
Download	This function executes processing with the dithered download pattern specified in the dithered download file.

Brightness

Sets the brightness of the entire image. Specify the brightness as a number within the range of 1 (dark) to 255 (bright). To brighten the entire image, increase the value of the setting. To darken the entire image, decrease the value.

Contrast

Sets the contrast between light and shadow of the scanned image. Specify the contrast as a number within the range of 1 (low [soft]) to 255 (high [sharp]). Increasing this value makes the contrast sharper.

Scan Type

Selects the scanning method.

ADF (Front Side)	Scans only the front sides of documents.
ADF (Back Side)	Scans only back sides of documents.
ADF (Duplex)	Scans both front and the back sides of documents.
	When this option is selected, the both sides of docu
	ments are scanned simultaneously.

Paper Size

Selects a paper size according to the size of the document to be scanned. Select a standard paper size from the list.

Paper Layout

Specifies orientation of the documents as portrait or landscape.

Automatic Size and Skew Detection

Automatically detects the document's page size, and the output will be adjusted to the detected page size. Document skewing is automatically detected and corrected for the output image.

[More...] button

Opens [More Settings] window. Used for setting advanced features.

Dptions End of Page Detections Overscan	Bac <u>k</u> ing	Side Both Front Back
Image Enhancement	Multifeed Detection	
DTC ⊻ariance:	□ Ena <u>b</u> le	
Automatic	Detect based on:	
Edge Processing:	Paper overlapp	ing
None	Paper Length	
Dropout <u>C</u> olor:	+/+ 20mm	
Green	1	
□ R <u>e</u> verse		
	Do not stop scar	nning upon detection
Defaults <u>G</u> amma		OK Cancel

End of Page Detection

Detects the (bottom) edge of the documents and outputs the data trimmed by the document length. When any page shorter than specified "Paper Size" is scanned, the output size (length) is adjusted to the detected document length.

Overscan

Specifies the overscan function, which makes the scanned images larger than the original documents by adding margins.

Gamma

Specifies Gamma correction. Correction patterns are: "Normal", "Soft", "Sharp", "Custom", or "Download".

DTC Variance

Specifies the value for adjusting the variance based on the brightness of the image.

Edge Processing

Specifies the sharpness of contour extraction.

Low, Mid, High	Emphasizes contour of images. Available settings
	are: Low, Mid, High
Smoothing	Smoothes jaggy images.

Dropout Color

Excludes selected color (the three primary colors of light i.e. green, red, blue) from scanned images. For example, if the document contains black text in a red frame and when the red color is selected, the scanner reads only the text and eliminates (drops out) the red frame.

If you do not wish to have any colors dropped out select "None".

Reverse

Colors of scanned images are reversed.

Backing

With this function, the outside of document paper becomes black / white by selecting [black] / [white] background.

Multi Feed Detection

Detects Multi feeds (phenomena that two or more sheets are accidentally fed). You can set conditions for detecting Multi feeds so that the scanner should stop and display error messages. Multi feed is detected by the differences in document lengths or by the overlapping of documents.

[Area...] button

Opens the Scan Area dialog box.

Specify scan area for the document size.

The size can be set by dragging the frame with mouse. Otherwise, enter any value for the setting.

aper Size:	[
_etter - 8.5 x 11 in	- I I I I I I I I I I I I I I I I I I I		uteleteleteleteleteleteleteleteletelet
Paper Layout			
Portrait C Lan	idscape	Both	······
Area	2		
⊻: 11/8" C P			
⊻: 11/2" ⊙ <u>I</u> r	nches 3		
<u>W</u> idth: 6" ⊂ <u>C</u>	centimeters 4		
Length: 67/8" ▼ S		ł	+
CA	ancel 6		
	7		
	1		
	8 1		
	9 1		
	1		

[JPEG...] button

Opens the JPEG Settings dialog box used for setting the compression rate of JPEG transfer.

JPEG Settings	
Quality Level:	
Download Custom Quality Table Extremely High Compression, Low Image Quality Very High Compression, Low Image Quality High Compression, Low Image Quality	^
Medium Compression, Medium Image Quality Low Compression, High Image Quality Very Low Compression, High Image Quality Extremely Low Compression, High Image Quality	
Download Quality <u>T</u> able	
OK]	Cancel

[About...] button

This button displays the version information.

[Setup IPC...] button

This button displays the Image Processing dialog. This button is enabled when Image Processing Software Option (separately sold) is installed and "Image Processing" is selected in the "Image Mode". Refer to the documentation provided with Image Processing Software Option.

Setup IPC		
Presets for Image Processing		
Current Setting		
Image Processing		
[Text] Fixed Threshold	•	
Eilter		
No filter		
Ihreshold		
Darker	Lighter 128	
Preview	More	
Preview Scan		
Default	OK Cancel	>

Chapter 2

SCANNING VARIOUS TYPES OF DOCUMENTS

This chapter describes how to scan various types of documents.

This chapter explains how to scan documents using Scandall21 as an example.

In this chapter Windows XP screenshots are illustrated.

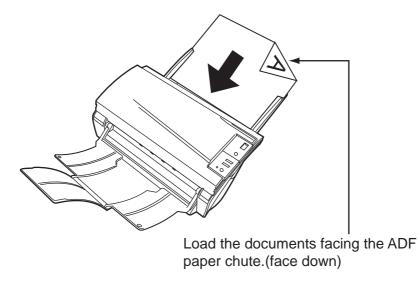
The screens and operations may differ slightly if the OS that you are using is not Windows XP. Also, when FUJITSU TWAIN32 is updated the screens and operations noted in this chapter will differ slightly.

2.1 Scanning double sided Documents	28
2.2 Scanning Documents with different Widths	30
2.3 Scanning thin Documents	31
2.4 Scanning Documents longer than A3 size	32
2.5 Saving scanned Images in PDF Format	34
2.6 Excluding a Color from the Image (dropout color)	41
2.7 Skipping blank Pages	43
2.8 Detecting Multi Feeds	45
2.9 Correcting skewed Documents	50

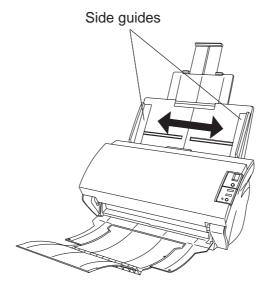
2.1 Scanning double sided Documents

1. Load the documents on the ADF paper chute.

For details on how to load documents, refer to "1.2 Loading Documents on the ADF for Scanning" on page 6.



2. Adjust the side guides to the width of the documents.



3. Start up ScandAll 21

From [Start] menu, select [Program] - [Scanner Utility for Microsoft Windows] - [ScandAll 21]. This starts up ScandAll 21.

4. Select fi-5530C.

From the [Scan] menu, click [Select Source...], then select "FUJITSU fi-5530Cdj" (for details refer to page 10) and click the [Select] button.

28

5. Click [Scan To View] on the tool bar. The [TWAIN Driver] dialogbox appears.

🖢 TWAIN Driver (32)		X
	Image Scanner: fi-5530Cdj	64MB Browse
0	Setting Files: 00 : Current Setting	Config
100	Resolution Scan Type:	Side)
	300 🚽 dpi 📰 ADF (Front 3	Side)
200	Predefine	
	Enable Software IPC	(Front Side)
300	Front Long page I	(Duplex)
	Black & White	Side)
400	Black/White: Threshol	d:
Scanning Area[mm]	Static Threshold	-] [128
Left: 0 Top: 0	Halftone: Contrast:	128
Width: 210 Length: 297		
Scan Preview		Advance
Close Reset	Option Help	About
Select an scanning method.	Da	ta Size about: 1.1MB

- 6. Select [ADF (Duplex)] from [Scan Type].
- 7. Click the [Scan] button.

For settings in the [TWAIN Driver] dialogbox, refer to "1.4 How to use the Scanner Driver" on page 12.

🎍 TWAIN Driver (32)		
	Image Scanner: fi-5530Cdj Setting Files: 00 : Current Setting	64MB Browse ▼ Config
100	Besolution 300 × 300 300 ÷ dpi Paper S	ADF (Duplex)
300		A4 (210x297mm)
400 Scanning Area(mm)	Black & White	Image: Threshold: Image: Threshold:
Left: 0 Top: 0 Width: 210 Length: 297	Halftone:	Contrast 128 Advance
Close Reset	Option	Help About
TWAIN driver. Press [F1] key to show help.		Data Size about: 1.1MB

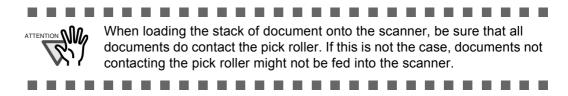
⇒ The images of scanned documents are displayed on the [ScandAll 21] window. For details on functions and operations of ScandAll 21, refer to the description in the [Help] menu of ScandAll 21.

2.2 Scanning Documents with different Widths

When you scan a stack of documents with different widths by using the ADF, the smaller sized documents may be scanned skewed or the scanner may not pick them. Try to scan only documents of the same width together.

However, if you need to scan a stack of documents with different widths, follow the procedure below.

- 1. To prevent skewed images, select the [Automatic Page Size Detection] from the "Automatic Size and Skew Detection". (For details, refer to "2.9 Correcting skewed Documents" on page 50.)
- 2. Align the stack so that documents of a smaller width are placed in the center of the stack.
- 3. Load the stack of documents onto the ADF paper chute and move the side guides so that they contact both sides of the widest sheet.

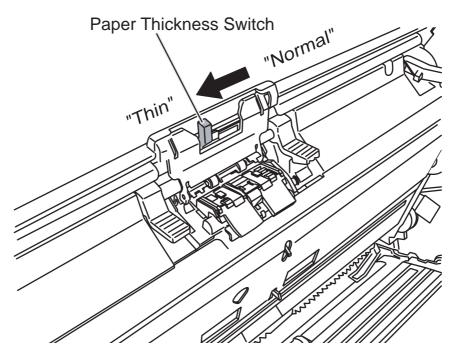


4. Scan the documents by refering to "1.3 Scanning Documents" on page 10.

2.3 Scanning thin Documents

When you scan a batch of thin documents (which are out of specification with under $52g/m^2$ of thickness), document jams (Multi feed) and mis-pickings may occur. If such documents need to be scanned, switch the lever to "Thin" side.

- 1. Confirm that the thin documents fulfill the requirements of "6.2 Document Quality" on page 103.
- 2. Shift the position of the paper thickness switch to the "Thin" position (the factory default is "Normal" position).



3. Scan the documents by refering "1.3 Scanning Documents" (page 10).

2.4 Scanning Documents longer than A3 size

1. Load the document on the ADF.

For details, refer to "1.2 Loading Documents on the ADF for Scanning" (page 6)

2. Open the TWAIN driver window.

For details, refer to "FUJITSU TWAIN32 Scanner Driver" (page 12).

3. Select [Long page (Front Side)] or [Long page (Duplex)] from [Scan Type].

🛓 TWAIN Driver (32)		
0 100 200 0 1111111111111111111111111111	Image Scanner: fi-5530Cdj 64MB Setting Files: 00 : Current Setting	Browse Config
0 100 200	Resolution Scan Type:	•
	300 dpi ADF (Front Side)	
200	Enable Software IPC	
300	Front Long page (Duplex)	
	Image Mode: ADF (Back Side)	
400	Black/White: Threshold:	- 128
Scanning Area[mm] Left: 0 Top: 0	Halftone: Contrast:	128
Width: 210 Length: 297	Adv	ance
Close Reset	Option Help	About
Select an scanning method.	Data Size abou	: 1.1MB

4. Specify the length of documents. Then click the [OK] button.

Long Page Paper Size Setting	X
Width:	
Length:	
OK Cancel Help	

5. Click the [Scan] button.

For settings in the [TWAIN Driver] dialogbox, refer to "1.4 How to use the Scanner Driver" on page 12.

🛓 TWAIN Driver (32)			
	Image Scanner: fi-5530Cdj	64MB	Browse
0	Setting Files: 00 : Current	Setting 💌	Config
100	Resolution 300 x 300	Scan Type:	-
100	300 ≟ dpi ☐ Predefine	Paper Size:	·
	Front		ſ
300	Image Mode:	Brightness:	- 128
400 Scanning Area[mm]	Black/White: Static Threshold Halftone:	Contrast:	- 128
Left: 0 Top: 0	mainone:		- 128
Width: 309 Length: 454	1		
Scan Preview		Adv	ance
Close Reset	Option	Help	About
TWAIN driver. Press [F1] key to show help.		Data Size about:	: 2.4MB

 \Rightarrow Images of scanned documents are displayed on the window of ScandAll 21.

For details on functions and operations of ScandAll 21, refer to the descriptions in the [Help] menu of ScandAll 21.

2.5 Saving scanned Images in PDF Format

To save scanned images in PDF format, Adobe Acrobat must be installed on your PC. Adobe Acrobat can be installed from the provided Adobe Acrobat CD-ROM. There are two methods for saving scanned images in PDF format.

1. Using ScandAll 21 (page 36)

This method is recommended for color or grayscale scanning and when a smaller PDF file size is required.

Your benefits are :

- Reduced PDF data size
- Simplified method for creating PDF files with no troublesome operations

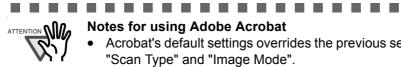
2. Using Adobe Acrobat (page 37)

This method is recommended for faster creation of PDF files and for black and white scanning.

Your benefits are :

- Quick creation of PDF files with the original scan resolution
- Flexibile creation of PDF files by changing the PDF compression rates

The file size increases when scanning color documents by a default method. However, you can drastically reduce the size by using the Acrobat Distiller before saving the file. For details, please refer to the hints on page 40.



Notes for using Adobe Acrobat

- Acrobat's default settings overrides the previous settings for "Resolution", "Scan Type" and "Image Mode".
 - The following functions cannot be used:
 - "256 Color" or "8 Color"
 - "Rotation Degree" selection when "End of Page Detection" is selected
 - Long Page Scanning
 - When scanning a paper document and converting the image to PDF using Acrobat, unexpected images may be output when:
 - 1. Setting "Edge Shadow Removal" in Acrobat, and setting "Digital Endorser" or "Black Background" options in the TWAIN driver at the same time. Letter strings embedded in the image or the background may be missed.

Solution 1: Set "Edge shadow removal" to "OFF" or set any option other than "Adaptive" for "Color/Grayscale" and/or "Monochrome" under "Compression" by selecting [File] - [Create PDF] - [From Scanner...] - [Image Settings...] in Acrobat.

Solution 2: Adjust the scanning density in the TWAIN driver.

2. Setting "Adaptive" for "Color/Grayscale" and/or "Monochrome" under "Compression" in Acrobat and scanning in a resolution lower than the resolution recommended for Acrobat.

Solution: Set OPTION to something other than "Adaptive" under "Compression."

3. Scanning a document longer than the double letter (11x17) or A3 size, when setting "Overscan" in the TWAIN driver, the scan may fail. Solution: When scanning a double letter (11x17) or A3 size of document, do not set "Overscan" in TWAIN driver.

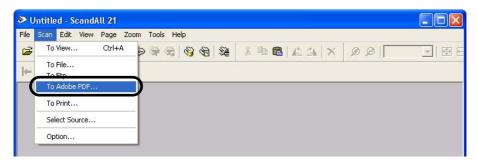
As for detailed usage and information of Acrobat, refer to "Create a PDF file from a scanned document" in Acrobat Help.

■ Using ScandAll 21

- 1. Load the documents on the ADF paper chute.
- 2. Start up ScandAll 21.

Select [Program] - [ScannerUtility for Microsoft Windows] - [ScandAll21] from the [Start] menu. This will start up ScandAll 21.

3. From the [Scan] menu select [To Adobe PDF].



 \Rightarrow [TWAIN Driver] dialogbox appears.

4. Set the scan resolution, paper size, etc., and then click the [Scan] button.

🞍 TWAIN Driver (32)		X
	Image Scanner: fi-5530Cdj Setting Files: 00 : Current Se	
100	Resolution 300 x 300	Scan Type: ADF (Front Side)
200	Predefine	Paper Size:
	1	Individual Setting
300	Image Mode:	Brightness:
400 Scanning Area[mm]	Black/White: Static Threshold Halftone:	Threshold:
Left: 0 Top: 0 Width: 210 Length: 297		
Scan Preview		Advance
Close Reset	Option	Help About
TWAIN driver. Press [F1] key to show help.		Data Size about: 1.1MB

- 5. To close the [TWAIN Driver] dialog box, click the [Close] button.
 - \Rightarrow The scanned image is displayed.

6. Enter the file name and select the destination to save the scanned image.

For details, refer to the descriptions in the [Help] menu of ScandAll 21.

Grandy sur	e PDF file name			182	
Save in: [My Documents	•	- 1	Ċ	···· •
🗀 Adobe					
🚞 My eBook	ks				
📩 My Music					
📇 My Pictur	es				
Untitled3	.pdf				
	.pdf				
	.pdf				
	.pdf				
Duntitled3	.pdf				Save
					<u>Save</u>

■ Using Adobe Acrobat

- 1. Load the documents on the ADF paper chute.
- 2. Start up Adobe Acrobat

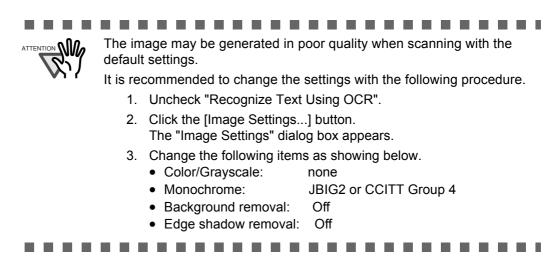
Select [Program] - [Adobe Acrobat] from the [Start] menu. This starts up Adobe Acrobat

3. From the [File] menu [Create PDF] - [From Scanner].

ile Edit View Document Comment	s Tools A	Advanced Window Help	
<u> O</u> pen	Ctrl+O	Create PDF 🗸 🕽	🤗 Comment & Mar
Create PD <u>F</u>		🕨 🚋 From <u>F</u> ile	Ctrl+N
Grganizer	,	From Multiple Files	
Email		From Scanner	
Close	Ctrl+W	From Web Page	Shift+Ctrl+O
Save	Ctrl+5	From Clipboard Image	e

- \Rightarrow The [Create PDF from scanner] dialogbox appears.
- 4. Select "FUJITSU fi-5530Cdj" at [Scanner] and click [Scan] button.

Create PDF f	rom Scanner
<u>S</u> canner:	FUJITSU fi-5530C dj
Sca <u>n</u> :	Front Sides
Destination:	New Document
Recognize	Text Using OCR Settings
📃 Add <u>T</u> ags t	o Document (Improves accessibility for disabled users)
Help	Image Settings Scan Cancel



 \Rightarrow The [TWAIN driver] dialogbox appears.

5. Select the scan resolution, document size, etc., and click the [Scan] button.

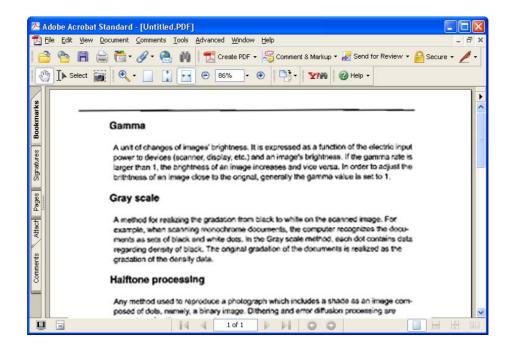
🞍 TWAIN Driver (32)				
0 1 2 3 4 5 6 7 8	Image Scanner:	fi-5530C dj		64MB Browse
	Setting Files:	00 : Current S	etting	Config
13	Resolution		Scan Type:	
3	2 300 x 3	00 🗸	ADF (Front Sid	le) 👻
4		300 🗧 dpi	Paper Size:	
1 2 3 4 5 6 7 7 8 9	Predefine		A4 (210x297m	m) 🖌
7	Enable Soft	ware IPC	_	
	Front		Individual Setting	
10	Image Mode:		Brightness:	128
12	Black/White:	scale	Threshold:	· · · ·
			v	128
Scanning Area[inch]	Halftone:		Contrast:	
Left: 0.000 Top: 0.000 Width: 8.268 Length: 11.693			~	128
Width: 8.268 Length: 11.693				Advance
Scan Preview				Auvance
Close Reset	Option	Online	e Help	About
TWAIN driver. Press [F1] key to show help.		and the second	Data	Size about: 8.7MB

6. To end scanning, click the [Done] button.

Acrobat Scan	
-Next Page	
• Front of shee	t 2
Next	Done

 \Rightarrow The scanned image is displayed.

l



7. Select [Save as...] or [Save] from the [File] menu to save the scanned image.

File	Edit	View	Document	Comments	Tools	Advance
	Open Create Orga <u>n</u> i: Emai <u>l</u>	PD <u>E</u> zer			Ctrl+0)
	<u>C</u> lose Save			1	Ctrl+W Ctrl+S	
	Save A	s		Shift	+Ctrl+S	

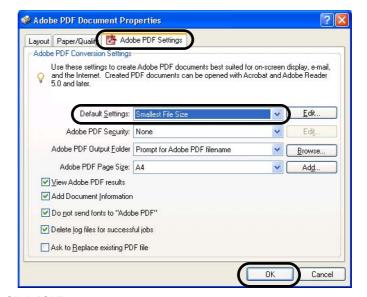
For the details on Adobe Acrobat operations, refer to the Adobe Acrobat manual and Help.

If you save scanned images by this procedure, the file size may increase greatly. For reducing the file size, follow the procedure below. (It may take much more time than the usual saving procedure.)

- 1. Select [File] [Print...]
- 2. On the following dialog specify [Adobe PDF] for [Name]

Print	? 🗙
Printer <u>N</u> ame: Adobe PDF Status: Ready Type: Adobe PDF Converter	Properties Comments and Forms: Document and Stamps
Print Range ● All ● Current yiew ● Current page ● Pages from: 1 to: 1 Subject All pages in range ■ Reverse pages Page Handling © Copies: 1 © Collate Page Scaling: Reduce to Printer Margins ■ ■ Auto-Botate and Center ■ Choose Paper Source by PDF page sige ■ Print to file	Preview 8.26 7 8.26 7 10 10 10 10 10 10 10 10 10 10 10 10 10 1
Printing Tips Agvanced	Unit:: Inches Zoom: 97% 1/1 (1) DK Cancel

- 3. Click the [Properties] button.
- 4. Click the [Adobe PDF Settings] tab.
- 5. Select one from [Default Settings].
 - The following shows an example of [Smallest File Size].



- 6. Click [OK].
- 7. Enter a file name and click the [Save] button on the [Save PDF File As] dialogbox.

2.6 Excluding a Color from the Image (dropout color)

A selected color (primary colors: red, green or blue) can be removed (dropped out) from the scanned image data. For example, if the document contains black text in a green frame, you can set the scanner to read only the text and eliminate (drop out) the green frame.

To set the scanner to drop out a color, change the settings in the [TWAIN Driver] dialogbox before scanning.

The following shows the procedure for changing the settings in this dialogbox.

1. Click the [Advance...] button in the [TWAIN Driver] dialogbox.

🞍 TWAIN Driver (32)			
0 100 200	Image Scanner: fi-5530Cdj	64MB Bro	owse
	Setting Files: 00 : Current S	etting 💽 Co	onfig
200	Resolution 300 x 300	Scan Type:	•
	300 <u>-</u> dpi	Paper Size:	
	Predefine	A4 (210x297mm)	•
200	Front	Individual Setting	
300	Image Mode:	Brightness:	128
400	Black/White: Static Threshold	Threshold:	128
Scanning Area[mm] Left: 0 Top: 0 Width: 210 Length: 297	Halftone:	Contrast:	128
Scan Preview		Advance.	
Close Reset	Option	Help Abou	Jt
TWAIN driver. Press [F1] key to show help.		Data Size about:	1.1MB

 \Rightarrow The [Advance] dialogbox appears.

2. Select the color to be dropped out from [Dropout Color] under [More].

For example, if the document contains black text in green frame, select [Green] so that the scanner only reads the text and eliminates the frames.

Gray Image Filter				
Gamma				
<u>G</u> amma Pattern:	Normal	•		
<u>C</u> ustom:	1.6 +			
More				
<u>₩</u> hite Level Follow	er: Auto	*		
Dropout Color:	Green			
Diopour coloi.	aleen			
	Red Blue			
	None None			
☐ <u>R</u> everse				

3. Click the [OK] button.

The [TWAIN Driver] dialogbox will be redisplayed. Then, scan the documents by the dialogbox.

2.7 Skipping blank Pages

Change settings in the [TWAIN Driver] dialogbox for skipping blank pages at scanning documents.

1. Click the [Option ...] button in the [TWAIN Driver] dialogbox.

0 100 200	Image Scanner: fi-5530Cdj	64MB	Browse
◎ =	Setting Files: 00 : Current Setting	, ,	Config.
	Resolution	n Type:	-
100	300 x 300 🔹 🚽	ADF (Front Side)	•
	300 – dpi Par	er Size:	
200	Predefine A	4 (210x297mm)	-
	Enable Software IPC		
∃	Front T	Individual Setting	
	Image Mode:	Brightness:	
	Black & White	•	- 128
400	Black/White:	Threshold:	
	Static Threshold	• —)—	- 128
Scanning Area[mm] Left: 0 Top: 0	Halftone:	Contrast:	- 128
			- 1120
Width: 210 Length: 297			
Width: 210 Length: 297 Scan Preview		Adv	ance

 \Rightarrow The [Option] dialogbox appears.

- 2. Click the [Job/Cache] tab
- 3. Check the [Blank Page Skip] box.

When the check box is marked, "Cache Mode" will change to "Ram cache".

	Ram cache		Cance
<u>C</u> ache Mode:		<u> </u>	
Memory Size:	10 · MB		Help
ADF Option			
Batch <u>D</u> etection:	None	- 1	
Multifeed Detection:	None	-	
<u>P</u> re-Pick:	Enable	-	
	Check Over-skew	6	
Blank Page Skip			
🔽 Blank Page Skip			

4. With the slider control under [Blank Page Skip], specify the Blank Page Skip degree. <In Binary/Halftone mode>

 Second Second
%
 %

For white pages, use the [Black Dots Ratio] slider bar to set the skip condition. For black pages, use the [White Dots Ratio] scroll bar to set the skip condition.

The value displayed to the right of the scroll bar displays the noise ratio(*1). If a scanned document is below this value, it is recognized as a blank page. The setting range is OFF(- -) and 0.2% to 3.0% (in increments of 0.2%).

*1: Ratio of black dots included in the scanning area. (for white pages)

<In Color/Grayscale mode>



Use the slider bar to set the skip condition in five stages from 1 to 5. To make the blank pages easy to skip, increase the value of the setting.

2.8 Detecting Multi Feeds

"Multi feed" is an error that occurs when two or more sheets are accidentally fed into the ADF at the same time. You can set the scanner to display an error message when the scanner detects a multi feed.

To set conditions for the multi feed detection, change the settings in the [TWAIN Driver] dialogbox.

The following shows the procedure for changing the settings in the dialogbox.

1. Click the [Option...] button in the [TWAIN Driver] dialogbox.

🞍 TWAIN Driver (32)		
0 100 200	Image Scanner: fi-5530Cdj	64MB Browse
	Setting Files: 00 : Current S	etting Config
	Resolution	Scan Type:
100	2 300 x 300	ADF (Front Side)
	300 ÷ dpi	Paper Size:
		A4 (210x297mm) •
	Enable Software IPC	
	Front	☐ Individual Setting
300	Image Mode:	Brightness:
	Black & White	✓ 128
400	Black/White:	Threshold:
Scanning Area[mm]	Static Threshold	
Left: 0 Top: 0	Halftone:	Contrast:
Width: 210 Length: 297	1	
Scan Preview		Advance
Close Reset	Option	Help About
TWAIN driver. Press [F1] key to show help.		Data Size about: 1.1MB

 \Rightarrow The [Option] dialogbox appears.

- 2. Click the [Job/Cache] tab.
- 3. Select the detection conditions from [Multi Feed Detection] under [ADF Option].

T
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The following are the detection conditions

None	Multi feed detection is not performed
Check overlapping	The scanner monitors the overlapping of docu-
	ments. The scanner detects a multi feed by differ-
	ences in ultrasonic propagation.
Check length	The scanner monitors the length of documents. The
	scanner detects a multi feed by differences in the
	document length.
Check overlapping	The scanner monitors both document overlapping
and length	and length to detect multi feeds.

Furthermore, refer to "6.5 Multi feed Detection Conditions" on page 108 for detailed information about the document for multi feed detection.

4. Click the [OK] button.

The display returns to the [TWAIN Driver] dialogbox. Then, scan the documents by the dialogbox.

To Specify the Area for Multi feed Detection

Normally multi feed detection will monitor paper overlap over the central column (width: 35mm) of the document to be scanned. This will cause certain documents, such as resumes and postcards with photographs or stamps, to be accidently recognized as being multi fed. When scanning these kinds of documents, you can specify an exact detection or non-detection area (excluding the area containing the photograph or stamp) to prevent mis-detections. The procedure is as follows.

1. Open Scanner's Properties.

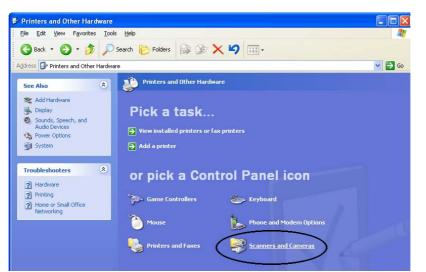
•For Windows 98 / Windows Me / Windows 2000 / Windows XP

- When turning on the power, check that the scanner is connected to your PC.Refer to "2.2 Connecting the Scanner to a PC" in fi-5530C Getting Started on the CD-ROM for information about connecting the scanner to your personal computer.
- 2) Double click the "Printer and Other Hardware" icon on the Control panel of your PC.

👺 Control Panel	
Eile Edit View Favorites	Iools Help
🜀 Back 🔹 🌍 🔹 🏂	🔎 Search 💫 Folders 🔯 🎲 🗙 🇐 🏢 -
Address 🔂 Control Panel	💌 🄁 Go
Switch to Classic View	Pick a category Appearance and Themes Printers and Other Hardware
See Also	
 Windows Update Help and Support 	Network and Internet Connections

 \Rightarrow The [Printer and Other Hardware] window appears.

3) On the [Printers and Other Hardware] window, double click the [Scanners and Cameras] icon.



 \Rightarrow The [Scanners and Cameras] window is displayed.

4) Right click the "fi-5530Cdj", and select [Properties] from the menu.

Edit View Fav	orites Tools	Help	
Back 🔹 🕥 🕆 🇊	🔎 Search	🌔 Folders	-
Imaging Tasks	۲	S 6	-5530Cdi

- \Rightarrow The [fi-5530Cdj Properties] dialogbox appears.
- 5) Click the "Device Set" tab.

530Cdj #2 Pr	operties		?
Device Set	About	Col	or Management
General	Events	Diagnosis	Device Info
Di-55300	Cdj		
Manufacturer:	FUJITSU		
Model:	fi-5530Cdj		
On Port:	¥¥.¥Scanner0		
Status:	Device Ready		
	est Scanner or Can	neta	
	ОК	Canc	el Apply

 \Rightarrow The following screen appears.

General	Eve	ents		anagement
Diagnosis	Device In	fo	Device Set	Abou
Page Counter:				
Total Page Co	unt(ADF):	170	pages	
			pages	
Pad :	Í	0	pages	<u>C</u> lear
Pick Roller: 0		pages	Clear	
	í.		pages	Clear
			-	Clear
Power saving:			-, 🗆	15 minutes
	Multi feed	Po	ower Control	<u>O</u> ffse

•For Windows 95 / Windows NT 4.0

- 1) When turning on the power, check that the scanner is connected to your PC.
- 2) Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".
- 3) Click "Device Setting" tab.
 ⇒ The following screen is displayed.

JJITSU Scanner Control	Center		
Common Device Info Device	e Setting		
Page Counter:			
Total Page Count(ADF):	490	pages	
i i		pages	
Pad:	0	pages	<u>C</u> lear
Pick Roller:	0	pages	Clear
Γ		pages	Clear
Γ		%	Clear
Power saving.		15	minutes
101k			
Multi feed	Power Cor	ntrol _	<u>O</u> ffset

- 2. Click the [Multi feed] button.
 - \Rightarrow The following screen is displayed.

🗸 Enable	
C Select area for feed Detection	applying Multi
 Select area for Multi feed Dete 	not applying ction
Start	
From the top of document:	0 · mm
End	
From the top of document:	0 ÷mm

- 3. Specify the settings on the "Area for Multi feed Detection..." screen.
 - 1) Mark the "Enable" check box.



You can select an area meassured from the top of the document, for which the multi feed detection will be conducted (or not).

 If you do not mark the "Enabled" checkbox, the settings for "Select Area to enable Multi feed Detection" / "Select Area to disable Multi feed Detection" will not be available. In this case, multi feed detection is conducted over the central column (width: 35mm) of the document to be scanned. (Refer to "Multi feed Detection Conditions" on page 108)

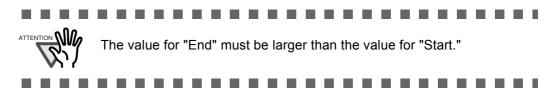
- 2) Select if the Multi Feed Detection shall be applied or not for a set area.
 - To specify an area for which the Multi Feed Detection will be conducted:
 - \Rightarrow check "Select area for applying Multi feed Detection."
 - To specify an area for which the Multi Feed Detection will NOT be conducted: ⇒ check "Select area for not applying Multi feed Detection."
- 3) Specify the "Start" of the area.

Enter the position from where the detection shall be started, meassured from the document's top edge.

(Possible values: 0 through 510mm; value of the even number)

4) Specify the "End" of the area.

Enter the position where the detection shall end, meassured from the document's top edge. (Possible values: 0 through 510mm; value of the even number)



2.9 Correcting skewed Documents

You can set the scanner so that skew of documents are detected and corrected automatically when skewed documents are fed into the ADF.

Change the setting in the [TWAIN Driver] dialogbox to enable this function.

The following shows the procedure for changing the setting in the dialogbox.

1. Click the [Option...] button in the [TWAIN Driver] dialogbox.

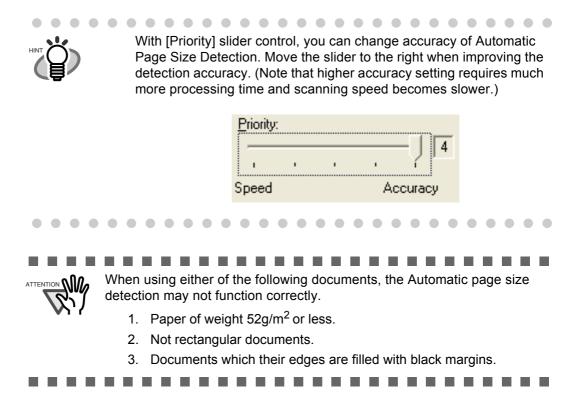
🛓 TWAIN Driver (32)		X
0 100 200	Image Scanner: fi-5530Cdj	64MB Browse
	Setting Files: 00 : Current S	etting Config
	Resolution	Scan Type:
100	2 300 × 300	ADF (Front Side)
	300 ÷ dpi	Paper Size:
200		44 (210x297mm) 🔻
200	Enable Software IPC	
	Front	☐ Individual Setting
300	Image Mode:	Brightness:
	Black & White	
400	Black/White:	Threshold:
C Scanning Area[mm]	Static Threshold	
Left: 0 Top: 0	Halftone:	Contrast:
Width: 210 Length: 297		
Scan Preview		Advance
Close Reset	Option	Help About
TWAIN driver. Press [F1] key to show help.		Data Size about: 1.1MB

- \Rightarrow The dialogbox appears.
- 2. Click the [Rotation] tab.
- 3. Select the [Automatic Page Size Detection] from the [Automatic Size and Skew Detection] menu.

Option	D
Rotation Jb/Cache Generic Startup Filter Compression	
Flip Side Rotation	ОК
-	Cancel
	Help
Rotation	
Rotation Degree:	
0.0 degree	
Automatic Size and Skew detection :	
Automatic Page Size Detection	
Priority:	
Speed Accuracy	
Speed Accuracy	

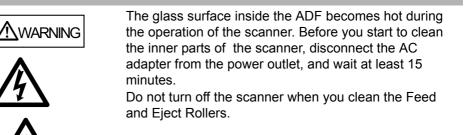
4. Click the [OK] button.

The display returns to the scanning operation [TWAIN Driver] dialogbox. Then, scan the documents by the dialogbox.



DAILY CARE

This chapter describes how to clean the scanner.



3.1 Cleaning Materials and Locations requiring Cleaning

■ Cleaning Materials

Cleaning Materials	Parts Number	Remarks
Cleaner F1 (or isopropyl alcohol)	CA99501-0013	1 bottle Moisten a cloth with this fluid and wipe the scanner clean.
Lint-free dry cloth	- Commercially available one	

For details about the cleaning materials, contact the FUJITSU scanner dealer where you purchased the scanner.

■ Locations and Cycle for Cleaning

The following table shows the standard cleaning cycle for each location.

Part to clean	Standard Cleaning Cycle
Pad ASSY	Clean these parts after every 5,000 scans.
Pick roller	
Feed rollers	
Plastic rollers	
Eject rollers	
Sheet guides	
Glass	
Ultra sonic sensor	

The scanner must be cleaned more frequently if you scan any of the following type of sheets:
Documents of coated paper
Documents that are almost completely covered with printed text or graphics

- Chemically treated documents such as carbonless paper
- Documents containing a large amount of calcium carbonate

- Documents written by pencil
- Documents on which the toner is not fused sufficiently

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3.2 Cleaning the ADF

As a guideline, clean the ADF after every 5,000 scans. Note that this guideline varies according to the type of documents you are scanning. For example, it may be necessary to clean the ADF more frequently if documents are scanned when the toner is not sufficiently fixed on the printout.



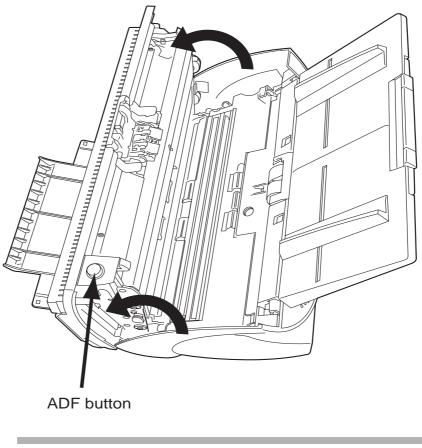
The glass surface inside the ADF becomes hot during the operation of the scanner. Before you start to clean the inner parts of the scanner, disconnect the AC adapter from the power outlet, and wait at least 15 minutes.

Do not turn off the scanner when you clean the Feed and Eject Rollers.

■ Cleaning Method

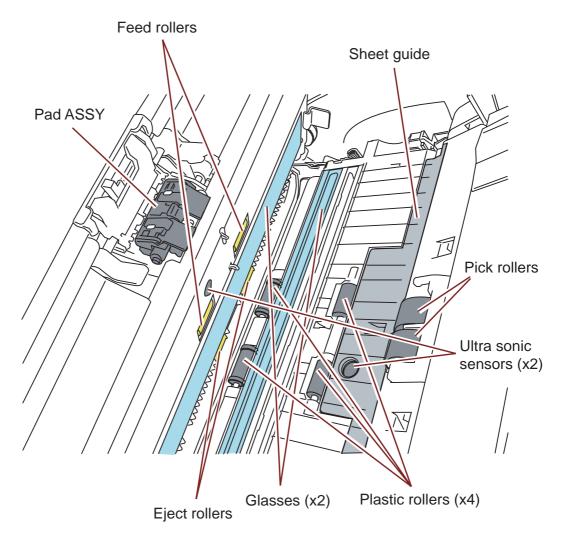
1. Open the ADF while pushing down the ADF button.

▲ CAUTION

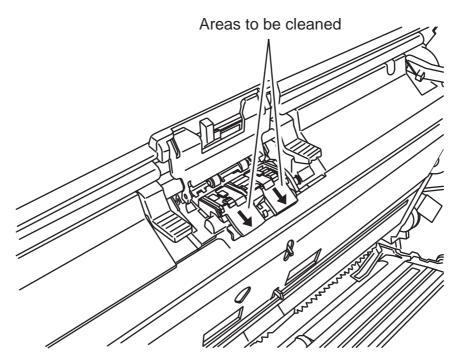


Be careful, the ADF cover may close and pinch your fingers.

2. Clean the following locations with a lint-free cloth moistened with the Cleaner F1.

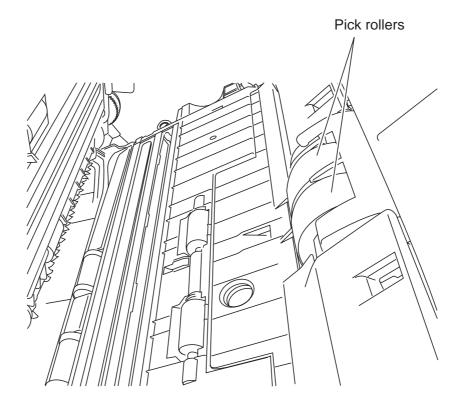


• Pad ASSY. Clean the Pad ASSY (rubber surface) downward (in the direction of the arrow).



• Pick rollers

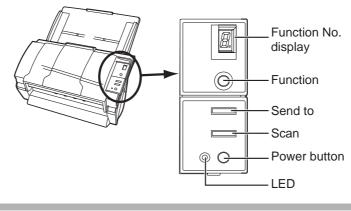
Clean the Pick rollers lightly, not to roughen the rollers' surface. Take particular care in cleaning these rollers as black debris on them advesely affects the pickup performance.



- Feed and Eject rollers
 - Open the ADF when the indication of the Function Number display is not "P" or "0".

If you open the ADF when the indication of the Function Number display is "P" or "0", the Feed rollers / Eject rollers will not rotate even you perform the operation of step 2) below.

- 2) Simultaneously hold down the "Send to" and "Scan" buttons on the operator panel. The Feed rollers / Eject rollers start to rotate slowly.
- 3) Hold a soft, dry cloth moistened with cleaning fluid against the surface of the rotating Feed rollers / Eject rollers so that it lightly cleans the surface of the rollers. As a guideline, 7 presses of the "Send to" and "Scan" buttons make the Feed rollers /Eject rollers to rotate one full turn.



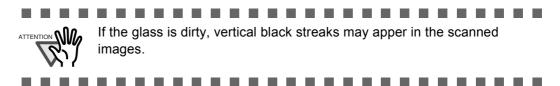


In step 2), the Feed rollers turn at the same time while rotating the Eject rollers. When cleaning the Eject rollers, be careful not to touch the Feed rollers and vice versa.

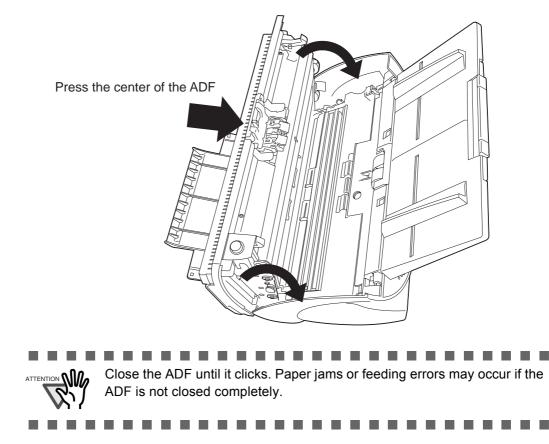
Plastic rollers

Clean the Plastic rollers lightly, not to roughen the roller surfaces. Take particular care in cleaning these rollers as black debris on them adeversely affects the pickup performance. Be careful not to damage the sponges beside the rollers.

- Sheet guides Clean lightly.
- Glass Clean lightly.



• Ultra sonic sensor Clean lightly with a dry cloth. 3. Push in the center of the ADF to return it to its original position, until the ADF button locks.



REPLACING CONSUMABLES

This chapter describes how to replace scanner consumables.

In this chapter Windows XP screenshots are illustrated.

The screens and operations may differ slightly if the OS that you are using is not Windows XP. Also, when FUJITSU TWAIN32 is updated the screens and operations noted in this chapter will differ slightly.

When operating the scanner, the ADF's inside glass becomes very hot.

Before you replace the consumables, turn off the power and unplug the AC adapter from the outlet. Wait for at least 15 minutes.



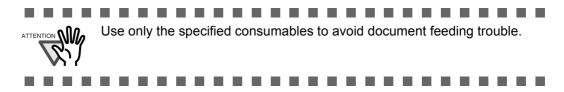
WARNING

4.1 Consumable and Replacement Cycle

DescriptionParts NumberStandard Replacement CyclePad ASSYPA03334-0002After 100,000 scans or one yearPick rollerPA03334-0001After 200,000 sheets or one year

The following table shows the specifications of consumables and guidelines for the replacement cycle.

The replacement cycles above are rough guidelines for the case of using A4/Letter woodfree or wood containing paper 64 g/m² (17 lb). This cycle varies according to the type of the scanned paper and how frequently the scanner is used and cleaned.



■ Guidelines for Consumable Replacement Cycle

With this product, you can learn how many times the consumables are used so that you can estimate the right timing for the replacement.

- For Windows 98 / Windows Me / Windows 2000 / Windows XP
- 1. When turning on the power, check that the scanner is connected to your PC.

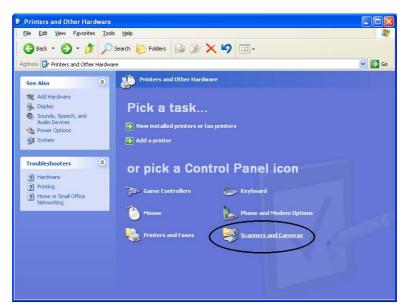
Refer to "2.2 Connecting the Scanner to a PC" in fi-5530C Getting Started on the CD-ROM for information about connecting the scanner to your personal computer.

2. Double click the "Printer and Other Hardware" icon on the Control panel of your PC.



 \Rightarrow The [Printer and Other Hardware] window appears.

3. On the [Printers and Other Hardware] window, double click the [Scanners and Cameras] icon.



 \Rightarrow The [Scanners and Cameras] window is displayed.

4. Right click the "fi-5530Cdj", and select [Properties] from the menu.



 \Rightarrow The [fi-5530Cdj Properties] dialogbox appears.

Device Set	Abo	ut	Color I	lanagement
General	Events	Diagnos	is	Device Info
) fi-55300	di			
	FUITCH			
anufacturer:	FUJITSU			
Model:	fi-5530Cdj			
On Port:	¥¥.¥Scanner	0		
Status:	Device Read	ly		
Г	est Scanner or	Camera		

- 5. Click the "Device Set" tab.
 - \Rightarrow The following panel appears.

General	Ev	ents		Management
Diagnosis	Device Ir	nfo	Device Set	Abou
Page Counter:		_		
Total Page Co	unt(ADF):	170	pages	
	ſ		pages	
Pad :	Í	0	pages	<u>C</u> lear
Pick Roller :	Ĺ	0	pages	Clear
	ŕ		pages	Clear
	ŕ			Clear
Power saving:	2		—. F	15 minute
	Multi feed	I [Pi	ower Control	

You can confirm the following information on this panel:

- Total number of scans
- Pad counter (approximate number of scans after resetting the pad counter)
- Pick roller counter (approximate number of scans after resetting the Pick roller counter)
- For Windows 95 / Windows NT 4.0
- 1. When turning on the power, check that the scanner is connected to your PC.
- 2. Right click the "FUJITSU Scanner Control Center" icon displayed in the task tray, then select "Option".
- 3. Click "Device Setting" tab.
 - \Rightarrow The following screen is displayed.

JITSU Scanner Control ((
ommon Device Inp Device	Setting)	
Page Counter:			
Total Page Count(ADF):	490	pages	
Γ		pages	
Pad:	0	pages	<u>C</u> lear
Pick Roller:	0	pages	Clear
		pages	Clear
		%	Clear
Power saving:			
1		15	minutes
Multi feed	Power Cor		minutes Offset

You can confirm the following information on this panel:

- Total number of scans
- Pad counter (approximate number of scans after resetting the pad counter)
- Pick roller counter (approximate number of scans after resetting the Pick roller counter)

The following message may appear while using the scanner:

1	Please replace feeding capa Regarding ho	e to replace the co ce Pick Roller in pa bility is deteriorated ow to replace the p uide. (Code: DS420	per feeder if the 1. ad, please refer to the
		sage not display ag jain after scanning	
Γ	Ignore	Cancel	Help

Replace consumables when this message is displayed.

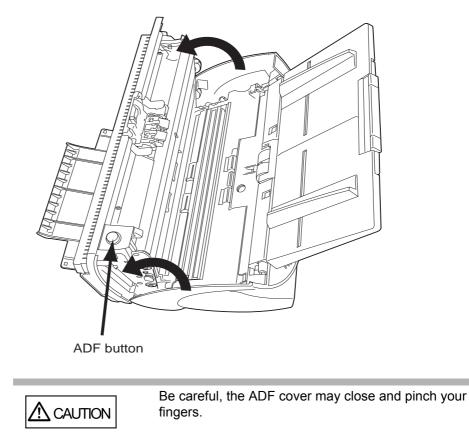
After clicking the [Ignore] button, this message will disappear and scanning will continue. Please replace the consumable as soon as possible.

As a default, this message appears again after 1,000 scans. If you do not wish this message to display, click the [this message not display again].

To stop scanning and replace the consumable, click the [Cancel] button.

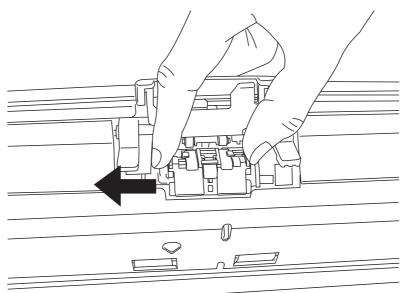
4.2 Replacing the Pad ASSY

- 1. Remove all documents from the ADF paper chute.
- 2. Open the ADF by pushing down the ADF button.



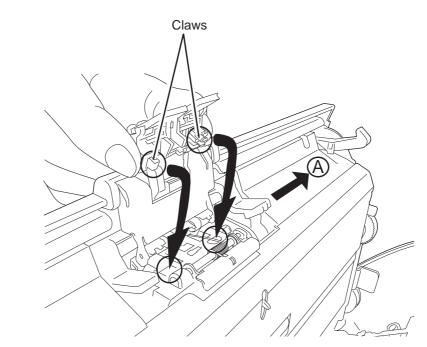
3. Remove the Pad ASSY.

Pinch the Pad ASSY and slide it to the direction of the arrow and remove it.

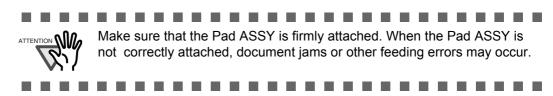


4. Attach new Pad ASSY.

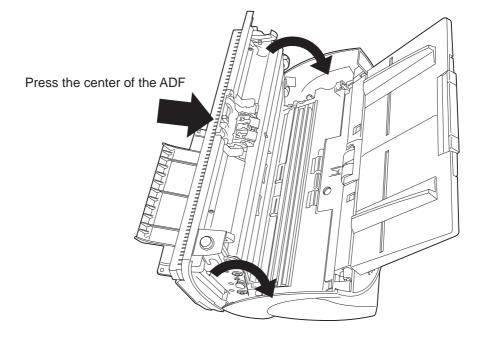
Insert the claws of the Pad ASSY into the holes on the ADF.



Pressing down the Pad ASSY and slide it to direction "A" as shown in the illustration above.



5. Push in the center of the ADF to close it until the ADF button is locked.



- 6. Reset the pad counter.
 - For Windows 98 / Windows Me / Windows 2000 /Windows XP
 - 1) Check that the scanner is connected to your PC and turn on the scanner.
 - 2) Open the [Scanners and Cameras] from the control panel of your PC.
 - 3) Open the [Properties] of [fi-5530Cdj] from the [Scanners and Cameras].
 ⇒ The [Properties of fi-5530Cdj] dialogbox appears.
 - 4) Click the "Device Set" tab.
 - \Rightarrow The following window appears.

General	Events	-		nagement
Diagnosis	Device Info		Device Set	Abou
Page Counter: -		<u> </u>		
Total Page Cour	nt(ADF):	170	pages	
			pages	
Pad :		0	pages	Dlear
Pick Roller :	Í	0	pages	Cl <u>e</u> ar
	,	_	pages	Clear
				Dlear
Power saving:			_, [1	5 _{minutes}
	Multi feed	Po	ower Control	<u>O</u> ffse

- 5) After clicking the [Clear] button beside "Pad" in "Page Counter", click the [OK] button.
 - \Rightarrow The following message is displayed.



Click the [OK] button. The Pad counter returns to "0".

l

- For Windows 95 / Windows NT 4.0
 - 1) When turning on the power, check that the scanner is connected to your PC.
 - 2) Right click the [FUJITSU Scanner Control Center] icon in the task tray, then select [Option].
 - 3) Click the "Device Setting" tab.
 - \Rightarrow The following window appears.

mmon Device Info Devic	e Setting		
Page Counter:			
Total Page Count(ADF):	490	pages	
ĺ		pages	_
Pad:	0	pages	<u>C</u> lear
Pick Roller:	0	pages	Clear
		pages	Clear
1		%	Clear
1			
Power saving:	<u></u>		
Power saving:		15	minutes
Power saving:			minutes
Power saving:	Power Co		minutes Offset

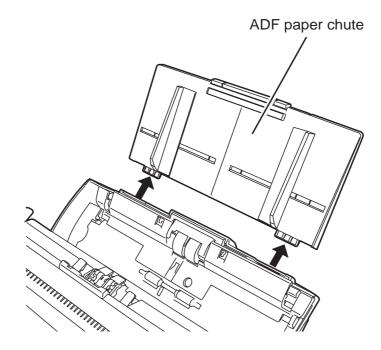
- 4) After clicking the [Clear] button besides "Pad" in "Page Counter", click the [OK] button.
 - \Rightarrow The following message is displayed.



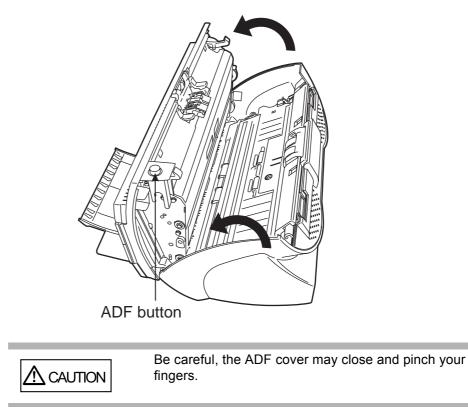
Click the [OK] button. The Pad counter returns to "0".

4.3 Replacing the Pick Roller

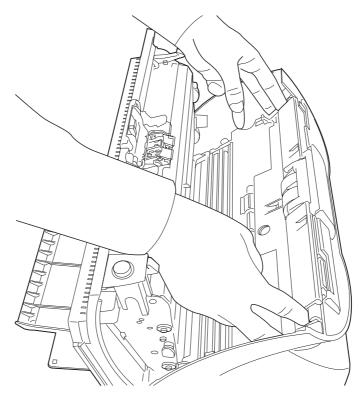
- 1. Remove all documents from the ADF paper chute.
- 2. Remove the ADF paper chute.



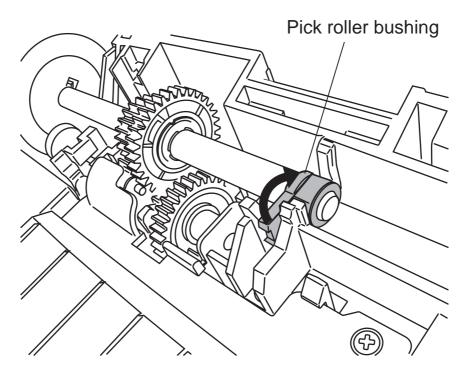
3. Open the ADF by pushing down the ADF button.



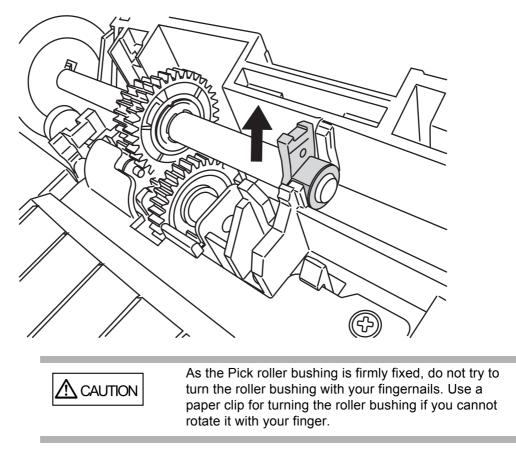
- 4. Remove the Pick roller from the scanner.
 - 1) Pinch the knobs on the sheet guide and lift up the sheet guide to remove it.



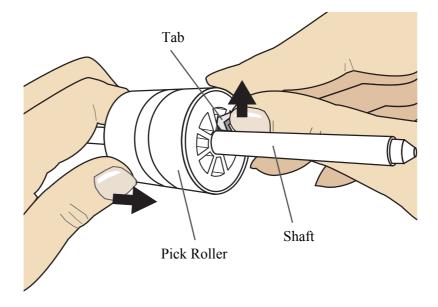
2) Rotate the Pick roller bushing in the direction of the arrow.

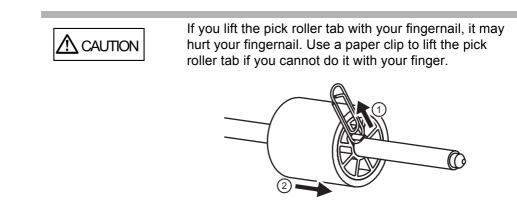


3) Remove the Pick roller shaft while lifting it up in the direction of the arrow.



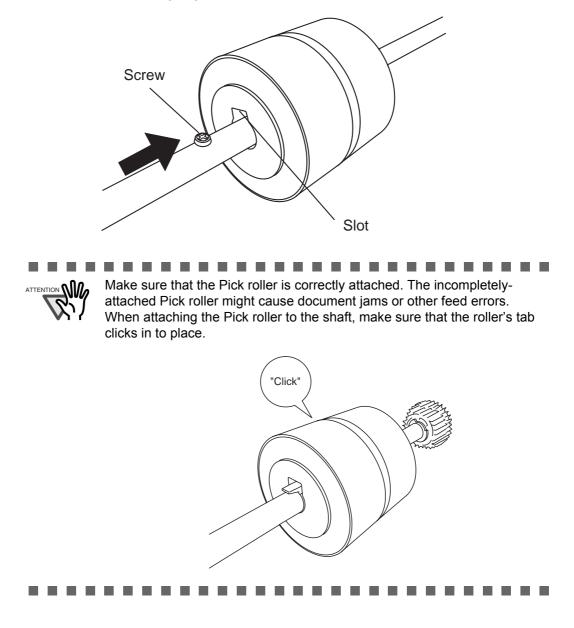
5. Remove the Pick roller from the shaft while lifting up the tab on the Pick roller.





6. Attach new Pick roller.

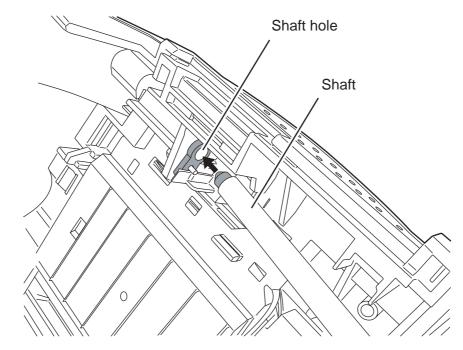
Insert new Pick roller aligning the screw on the shaft with the slot in the Pick roller.



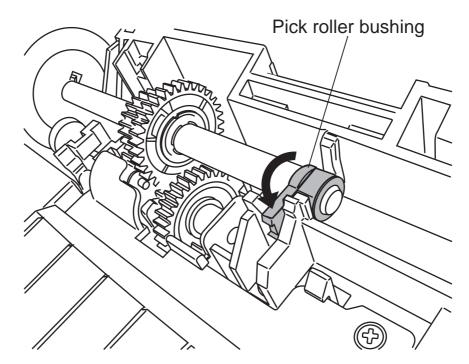
7. Attach the Pick roller shaft to the scanner.

Attatch the Pick roller shaft to the scanner in reverse order of removing.

1) Set the Pick roller inserting an end of shaft into the shaft hole.

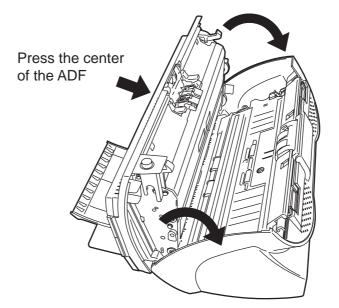


2) Turn the Pick roller bushing in the direction of the arrow.

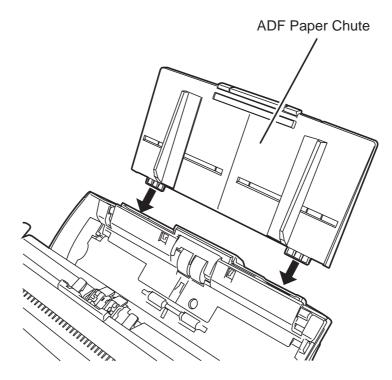


3) Attach the sheet guide.

8. Push in the center of the ADF to close it until the ADF button is locked.



9. Attach the ADF paper chute to the scanner.



- 10. Reset the pick counter.
 - For Windows 98 / Windows Me / Windows 2000 / Windows XP
 - 1) When turning on the power, check that the scanner is connected to your PC.
 - 2) Open the [Scanners and Cameras] from the control panel of your PC.
 - 3) Open the [Properties] of [fi-5530Cdj] from the [Scanners and Cameras].
 ⇒ The [Properties of fi-5530Cdj] dialogbox is displayed.
 - 4) Click the [Device Set] tab.
 - \Rightarrow The following window appears.

General	Even	ts		agement
Diagnosis	Device Info		Device Set	Abou
Page Counter:		~		
Total Page Cou	int(ADF):	170	pages	
			pages	
Pad :	í –	0	pages (Clear
Pick Roller :		0	pages	Clear
				Clear
				Clear
Power saving:-			1	5 minutes
	Multi feed	[Pi	ower Control	<u>O</u> ffse

- 5) After clicking the [Clear] button beside [Pick Roller] in "Page Counter", click the [OK] button.
 - \Rightarrow The following window appears.



Click the [OK] button. The Pick roller counter returns to "0".

- For Windows 95 / Windows NT 4.0
 - 1) When turning on the power, check that the scanner is connected to your PC.
 - 2) Right click the [FUJITSU Scanner Control Center] icon in the task tray, then select [Option]
 - 3) Click the "Device Setting" tab.
 - \Rightarrow The following window appears.

Page Counter:			
Total Page Count(ADF):	490	pages	
		pages	
Pad:	0	pages	Clear
Pick Roller:	0	pages	Clear
		pages	Liear
ĺ.		%	Clear
Power saving:			

- 4) After clicking the [Clear] button besides "Pick Roller" in [Page Counter], click the [OK] button.
 - \Rightarrow The following message is displayed.



Click the [OK] button. The Pick roller counter returns to "0".

Chapter 5

TROUBLESHOOTING

This chapter describes how to remedy document jams, other troubles and items to check before contacting the agent where you bought the scanner.

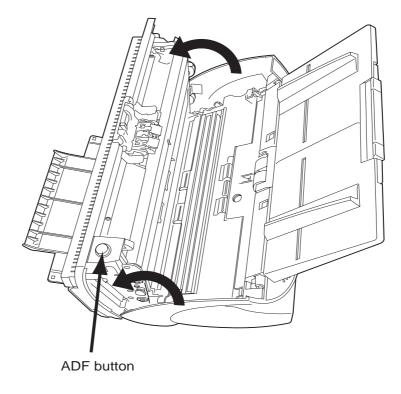
5.1 Removing Jammed Documents	80
5.2 Error Indications in the Function Number Display	82
5.3 Remedying Common Troubles	84
5.4 Items to check before contacting the agent where you bought the scanner	97
5.5 Checking Labels on the Scanner	99

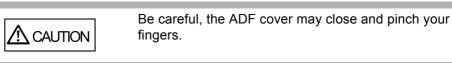
5.1 Removing Jammed Documents

If a document jam occured, follow the procedure below to remove the jammed documents.

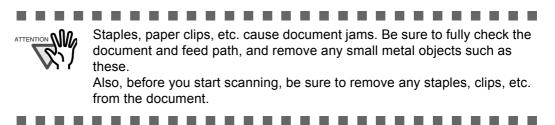
•	Take care not to get injured when removing the jammed documents. Be careful not to get neckties, necklaces, etc. entan- gled in the scanner when removing the jammed docu- ments. The surface of the glass may become hot during oper- ation. Take care not to get burned.
	alion. Take care not to get buttled.

- 1. Remove all documents from the ADF paper chute.
- 2. Open the ADF by pushing down the ADF button.

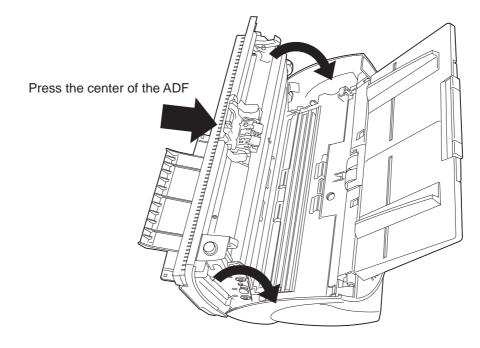


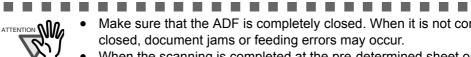


3. Remove the jammed documents.



4. Push in the center of the ADF to close it untill the ADF button is locked.





- Make sure that the ADF is completely closed. When it is not completely closed, document jams or feeding errors may occur.
- When the scanning is completed at the pre-determined sheet or canceled, the documents might remain inside the ADF even though any error message is not displayed.

Follow the procedure below to remove the documetns remaining in the ADF.

- 1. Remove all documents from the ADF paper chute.
- 2. Open the ADF by pushing down the ADF button.
- 3. Remove the remaining documents.
- 4. Push in the center of teh ADF to close it until the ADF button is locked.

5.2 Error Indications in the Function Number Display

When any error occurrs, the operator panel indicates "U" followed by a number alternately for temporary errors, or "E" followed by a number for device alarms (permanent error).

Temporary errors can be resolved by the operator, but the device alarm requires recovery works by support engineers.

When the Error Recovery Guide is installed on your PC and if any error or device alarm has occurred, this software displays information such as error names and error codes regarding the error/alarm. Take notes of the information and click [Details] on its window to learn detailed information for troubleshooting.

■ Temporary Errors:

Indication Meaning Solution Remove the jammed documents. U1 A paper feed error occurred. (Refer to "5.1 Removing Jammed Documents" on page 80.) Confirm that the documents meet the paper conditions for scanning. (Refer to "6.2 Document Quality" on page 103.) U2 A multi feed error occurred. Press the [Send to] button on the **Operator Panel.** The papers that were multi fed will be ejected. U6 The print cartridge is not set. This is a temporary error related with the Imprinter option (sold separately). For details refer to 553PR Operator's Guide, chapter "5 Error Message".

.

A number appearing in alternation following the "U" refers to the following type of errors:



• • •

The Error Recover Guide is stored in Setup CD-ROM. For installing the application software, refer to "2.3 Installing the Scanner Application" in fi-5530C Getting Started.

Device alarms:

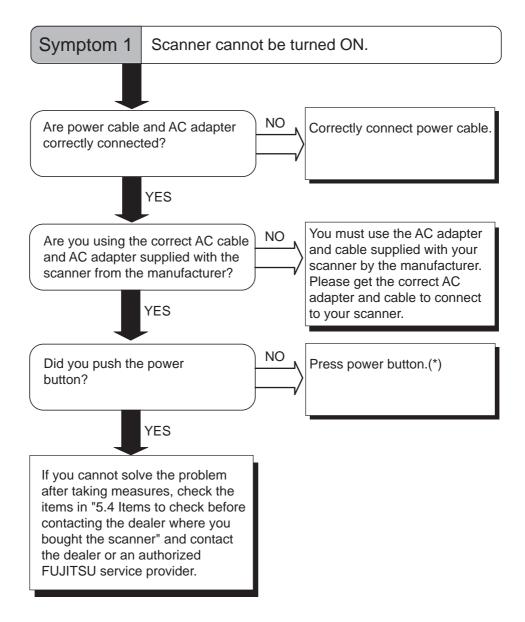
A number appearing in alternation following the "E" refers to the following type of device alarms:

Indication	Meaning	Solution		
E2	Trouble in the optical system (front).	When you encounter any alarm, turn off and on the scanner. If the alarm is		
E3	Trouble in the optical system (back).	still displayed on the Function Number Display, contact the dealer where you purchased the scanner or an autho-		
E4	The motor fuse has blown out.	rized FUJITSU scanner service pro-		
E6	Trouble in the operator panel.	vider.		
E7	Trouble occurred in the internal memory (EEPROM).			
E8	The SCSI interface fuse has blown out.			
E9	An error in the image memory.			
Ec	An alarm in the memory.			
Ed	Trouble in the SCSI interface controller			
EF	Trouble in the Background switching mechanism			

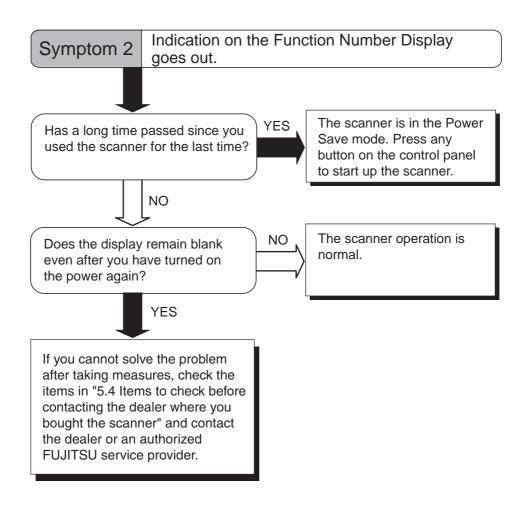
5.3 Remedying Common Troubles

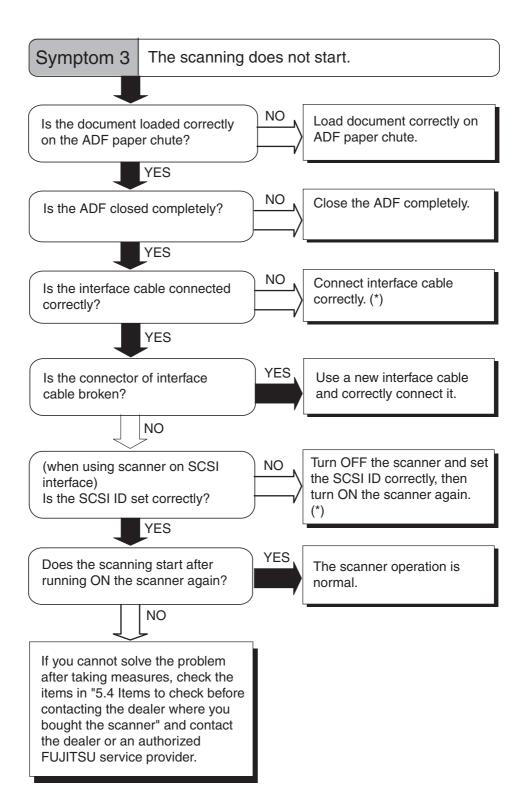
This section describes troubles that may occur during scanning and how to remedy them. Before you ask for repair service, check the following flowcharts.

If you cannot solve the problem after checking the remedies in the flowcharts, check the items in "5.4 Items to check before contacting the agent where you bought the scanner" (page 97) and then contact the agent where you bought the scanner.

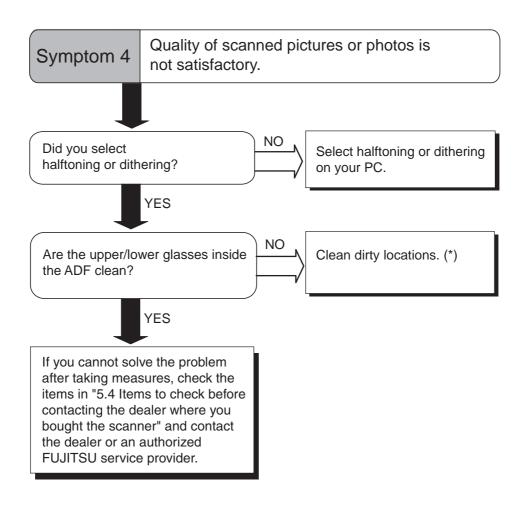


*) For details about how to turn the scanner on, refer to "1.1 Turning the Scanner ON" on page 2.

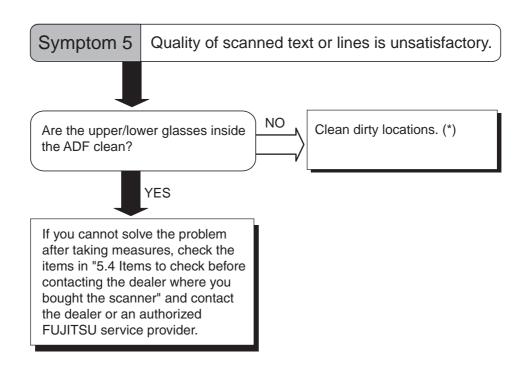




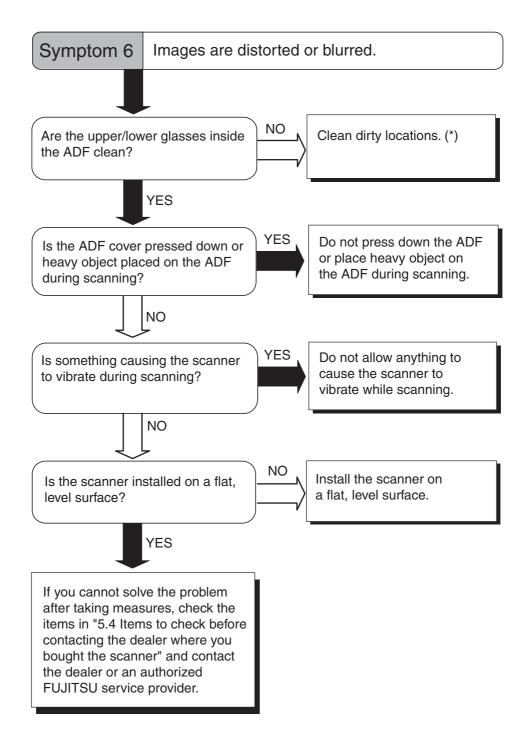
*) For details, refer to Getting Started "2.2 Connecting the scanner to your PC".



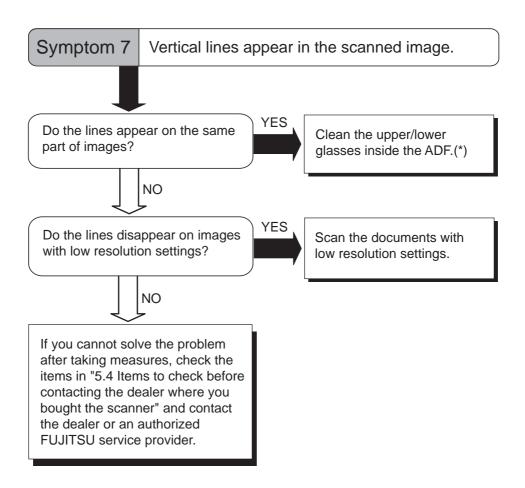
*) For details on how to clean dirty locations, refer to "3 DAILY CARE" on page 53.



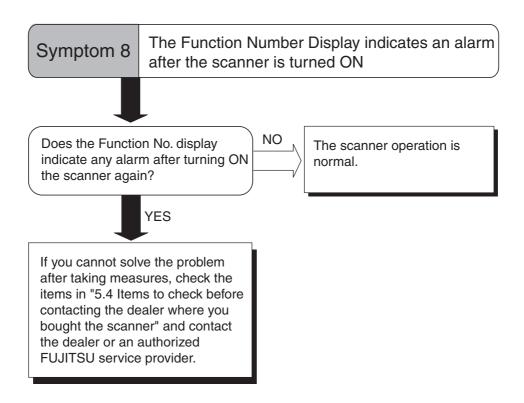
*) For details on how to clean dirty locations, refer to "3 DAILY CARE" on page 53.



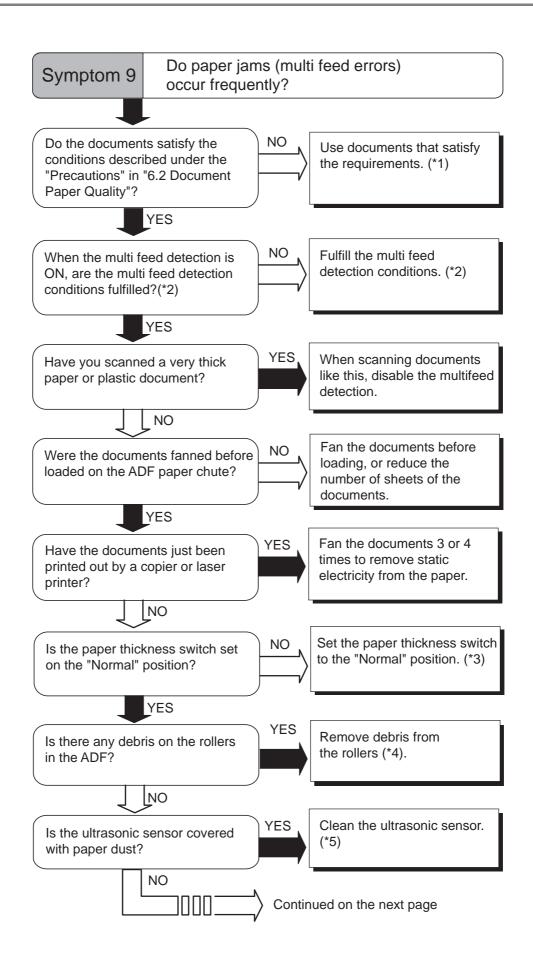
*) For details on how to clean dirty locations, refer to "3 DAILY CARE" on page 53.

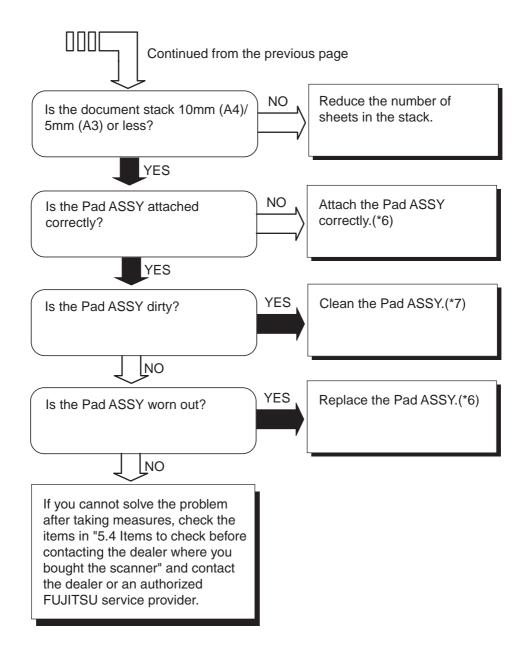


*) The ADF glass, refer to "3.2 Cleaning the ADF" on page 55.

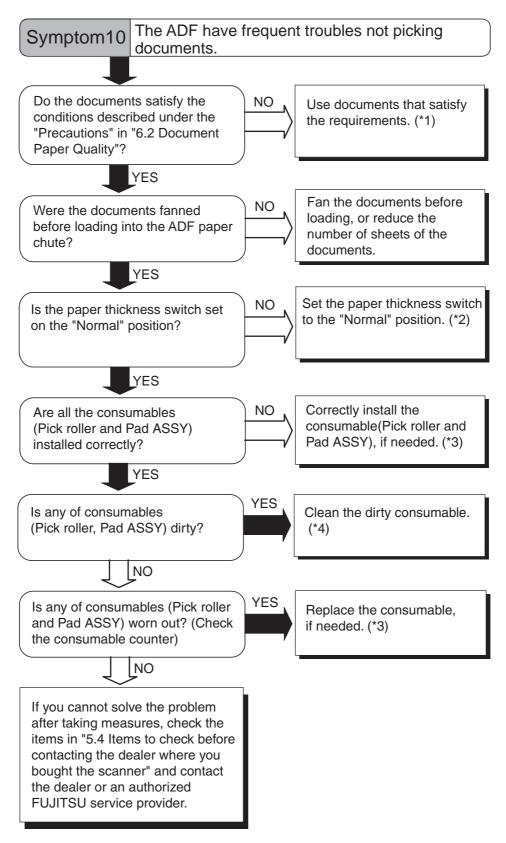




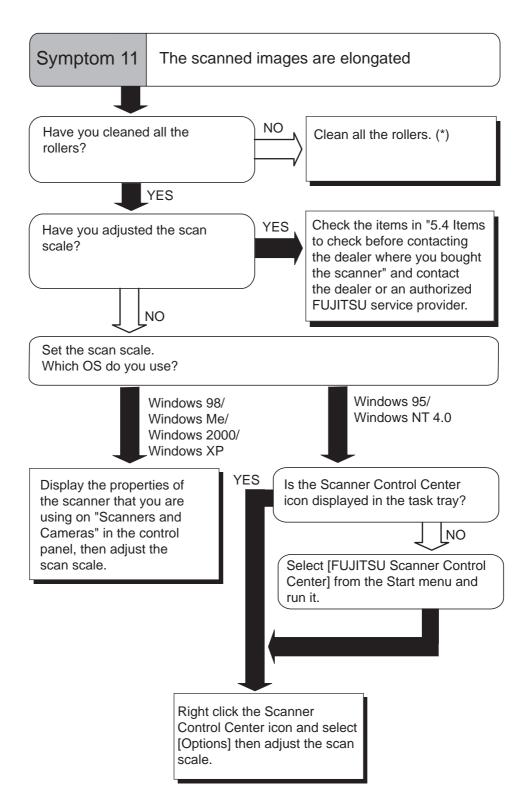




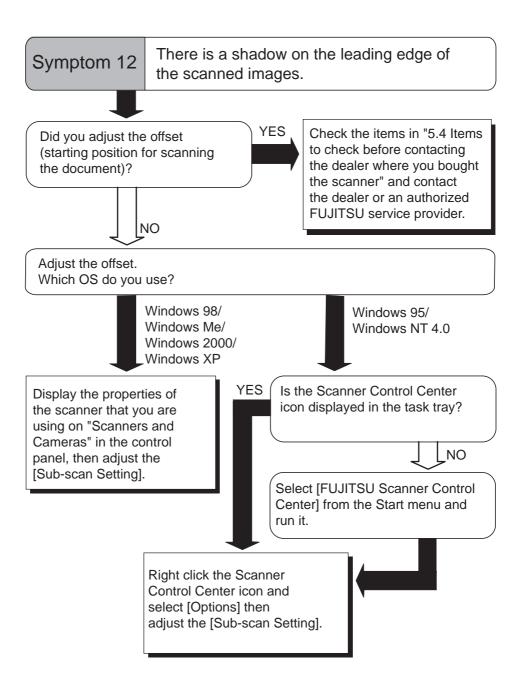
- *1) For details on the requirements, refer to "6.2 Document Quality" on page 103.
- *2) For details on multi feeds, refer to "6.5 Multi feed Detection Conditions" on page 108.
- *3) For details on how to set paper thickness switch, refer to "2.3 Scanning thin Documents" on page 31.
- *4) For details on how to clean the rollers, refer to "3.2 Cleaning the ADF" on page 53.
- *5) For details on how to clean the Ultrasonic sensor, refer to the "3.2 Cleaning the ADF" on page 55.
- *6) For details on how to replace (or attach) the Pad ASSY, refer to "4.2 Replacing the Pad ASSY" on page 66.
- *7) For details on how to clean the Pad ASSY, refer to "3.2 Cleaning the ADF" on page 55.



- *1) For details, refer to "6.2 Document Quality" on page 103.
- *2) For details, refer to "2.3 Scanning thin Documents" on page 29.
- *3) For details, refer to "4 REPLACING CONSUMABLES" on page 61.
- *4) For details, refer to "3.2 Cleaning the ADF" on page 55.



*) For details on how to clean the rollers, refer to "3.2 Cleaning the ADF" on page 55.



5.4 Items to check before contacting the agent where you bought the scanner

Check the following items before you contact the agent where you bought the scanner.

■ General Details

Item	Findings
Model	fi-5530C
Serial Number	(Example) 000001 For details on the serial number, refer to "5.5 Checking Labels on the Scanner" on page 99.
Production date	(Example) 2005-07 (July, 2005) For details on the production date, refer to "5.5 Checking Labels on the Scanner" on page 99.
Date of purchase	
Symptom	
Frequency of trouble	

■ Installation or PC connection issues

• Trouble of connection to your PC

Item	Findings
OS	
Displayed error message	
Interface	(Example) SCSI interface
Interface controllers	(Example) made by Adaptec SCSI Card 2940AU

• Feed system trouble

Item	Findings
Document type	
Main purpose of use	
Last cleaning date	
Last consumables replacement date	
Operator panel status at trouble	

• Imaging system trouble

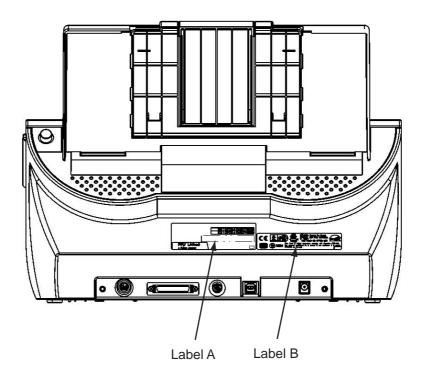
Item	Findings
Type and version of scanner driver	
Type of interface controller	(Example) made by Adaptec SCSI Card 2940AU
OS (Windows [®])	
Application software	(Example) ScandAll 21, Acrobat

• Others

Item	Findings
Can both the original document and the scanned image be sent to us by e-mail or Fax?	

5.5 **Checking Labels on the Scanner**

Positions of Labels on the Scanner



Label A (example): Indicates scanner information.

MODEL	fi-5530C	24	۷		:	2.5	A	_	8.5	kg		
PART NO.	PA03334-B303		0	1	2	3	4	5	6	7	8	9
SER. NO.	*****		0	1	2	З	4	5	6	7	8	9
DATE	2005-06	Barcode printing area										
PFU Limited a Fujitsu company		МА	DE	IN	:	**	*1	**	*		Γ.	

Label B (example): Indicates various standards that the scanner conforms with.



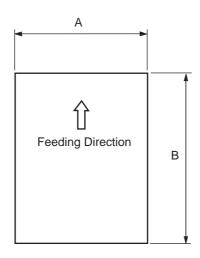
DOCUMENT SPECIFICATIONS FOR ADF

This chapter describes the required document sizes and paper quality for ensuring a correct operation when scanning documents on the ADF.

6.1 Document Size 1	102
6.2 Document Quality 1	103
6.3 Maximum ADF Capacity 1	106
6.4 Area not to be perforated 1	107
6.5 Multi feed Detection Conditions1	108

6.1 Document Size

The following shows the size of documents that can be scanned.



Maxi	mum	Minimum		
А	В	Α	В	
297 (11.7 in)	863.6 (34 in)	53 (2.0 in)	74 (2.9 in)	

(Unit:mm)

6.2 Document Quality

This section describes the types and thicknesses of documents that can be scanned stably, and precautions to follow.

Document Type

The recommended following paper types are:

- Woodfree paper
- Wood containing paper

When using documents of a paper type other than the above, perform a test-scanning with a few sheets of the same type before executing the actual task in order to check whether or not the documents can be scanned.

Document Thickness

Paper thickness is expressed by "paper weight." The following shows the paper weights that can be used on this scanner:

• 52 g/m^2 to 127 g/m^2 (13.9 lb to 34.0 lb)

Only a paper weight of 127 g/m² (34.0 lb) is allowed for A8-size documents.

Precautions

The following documents may not be scanned successfully.

- Documents of non-uniform thickness (e.g. envelopes)
- Wrinkled or curled documents (Refer to HINT on page 105.)
- Folded or torn documents
- Tracing paper
- Coated paper
- Carbon paper
- Carbonless paper
- Photosensitive paper
- Perforated or punched documents
- Documents that are not square or rectangular
- Very thin documents

Do not use the following documents:

- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- Documents smaller than A8 (Portrait) in size
- Documents wider than A3 or 11x 17 in size
- Documents other than paper such as fabric, metal foil, or transparencies



- When scanning semi-transparent documents, slide the [Brightness] bar to light to avoid bleed through.
- To prevent the rollers from becoming dirty, avoid scanning documents containing large areas written or filled in pencil. If scanning of such documents is inevitable, clean the rollers more frequently.

• Carbonless paper contains chemical substances that may harm the Pad

 Carbonless paper contains chemical substances that may harm the Pad ASSY or rollers (e.g. Pick roller) when documents are fed. Pay attention to the following:

Cleaning:

If document jams occur frequently, clean the Pad ASSY and the Pick roller. For details on cleaning the Pad ASSY and the Pick roller, refer to "3.2 Cleaning the ADF" on page 55.

Replacing parts:

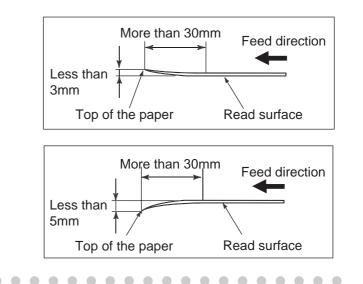
barts: The service life of the Pad ASSY and the Pick roller may be shortened compared to the case of scanning wood containing paper documents.

• When scanning wood containing paper, the life of the Pad ASSY and the Pick roller may be shortened compared to the case of scanning woodfree paper.



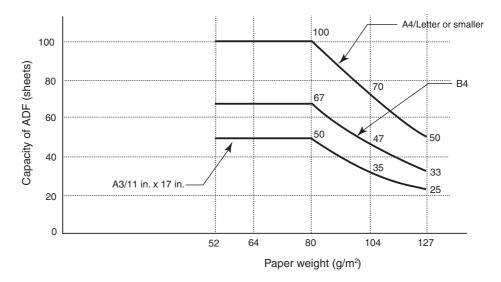


When using the ADF, the leading edge of all document sheets must be evenly aligned. Make sure that curling at the leading edge is within the following tolerances:



6.3 Maximum ADF Capacity

The maximum number of sheets that can be loaded on the ADF paper chute is determined by the size and weight of the documents. The following graph shows the maximum document loading capacity of ADF with respect to paper weight.

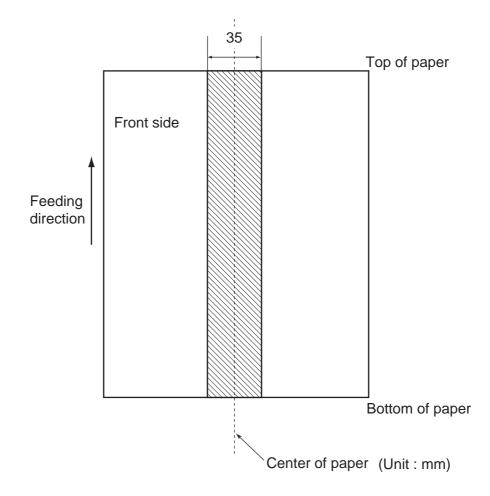


Paper weight conversion table

Unit	Conversion							
g/m ²	52	64	75	80	90	104	127	
lb	13.9	17.0	20.0	21	24.0	27.9	34.0	

l

6.4 Area not to be perforated



When using the ADF, document trouble might occur if there is any punched hole in the shaded area in the following figure.

6.5 Multi feed Detection Conditions

One of the following is selected to detect a multi feed:

- Check overlapping
- Check length
- Check overlapping and length

The following describes what condition is required for each selection:

Check overlapping

Paper weight $52 \text{ g/m}^2 - 127 \text{ g/m}^2 (13.9 \text{ lb to } 34.0 \text{ lb})$

Punched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document. Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.

■ Check length

Document length deviation1 % or lessPunched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document.

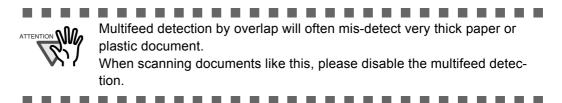
Check overlapping and length

Paper weight

52 g/m² - 127 g/m² (13.9 lb to 34.0 lb)

Document length deviation 1 % or less

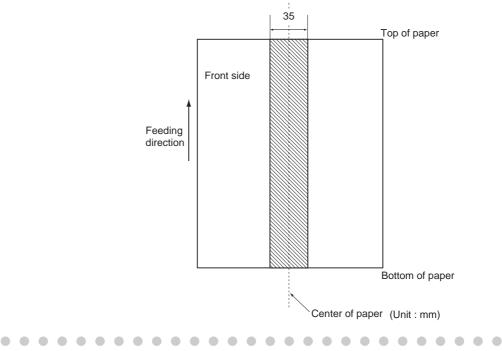
Punched holes are not allowed within 35 mm (1.4 in) of the vertical centerline of the document. Other paper shall not be glued within 35 mm (1.4 in) of the vertical centerline of the document.



 $\bullet \bullet \bullet \bullet \bullet \bullet \bullet$



- When the overlapping check is specified, the papers which contact closely each other, such as glued paper or electro-statically charged paper, can result in the miss-detection of multi feed.
- Normally multi feed detection will monitor the following area of the document.



Chapter 7

SCANNER SPECIFICATIONS

This chapter lists the scanner specifications.

7.1 Basic Specifications	112
7.2 Installation Specifications	114
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7.1 Basic Specifications

No.	lt	em	Specification			
1	Scanner Type		ADF (<u>A</u> utomatic <u>D</u> ocument <u>F</u> eeder)	-		
2	Image sensor		CCD x 2	Front / Back		
3	Light source		Incandescent cold cath- ode fluorescent lamp x 2	Front / Back		
4	Scanning	Minimum	A8 portrait	127 g/m ² paper		
	area	Maximum	A3 / 11 x 17 in			
5	Paper Weight	•	52 to 127 g/m ² (13.9 to 34.0 lb)	(Note(*1))		
6	Scanning Speed	Binary (monochrome)	Simplex: 35 sheets/min. Duplex: 70 sides/min.	200 dpi		
	(A4 Portrait) (Note(*2))	Color	Simplex: 45 sheets /min. Duplex: 90 sides/min.	150 dpi		
7	Capacity of ADF		100 sheets	A4, 80 g/m ²		
	(Note(*3))		50 sheets	A3 80 g/m ²		
8	Optical Resolu	tion	600 dpi	-		
9	Output resolution	Binary (monochrome)	50 - 600 dpi	Scalable in 1 dpi		
	(Halftone)	Glayscale		increments		
		Color				
10	Grayscale leve	1	8 bits per color	Internal 10 bits		
11	Halftone Patter	ms	Dither / Error diffusion	-		
12	Interface (Note(*4))		Ultra SCSI	Shield-type 50 pin (pin-type) halfpich		
			USB 2.0 / USB 1.1 (Note(*5))	В Туре		
13	Other functions	3	JPEG compression	-		
			Imprinter Port	-		

No.	ltem	Specification			
14	Options	Imaging Processing Software	(Note(*6))		
		fi-553PR Imprinter	(Note(*7))		

*1) For details, refer to "6 DOCUMENT SPECIFICATIONS FOR ADF" on page 101.

- *2) The scanning speed is the maximum speed of the scanner hardware. Software processing time such as data transfer time is added to the actual scanning time.
- *3) The maximum stacking capacity varies according to the document thickness. For details, refer to "6 DOCUMENT SPECIFICATIONS FOR ADF" on page 101.
- *4) The Ultra SCSI and USB2.0/1.1 interfaces cannot be used at the same time.
- *5) If you connect the scanner with USB 2.0, it its required that the USB port and the Hub are compliant with USB 2.0. The scanning speed may slow down when connecting with USB 1.1.
- *6) "Image Processing Software Option" is an optional software for FUJITSU fi-series scanners to perform advanced binarization processing using the "FUJITSU TWAIN 32" scanner driver.
- *7) By Using the Imprinter, a character string, such as the alphabet and numbers, can be printed in the scanned document. It helps you to organize your documents by printing a name, date, time or a serial number on the scanned document.

7.2 Installation Specifications

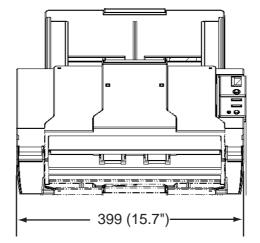
lte	em		Specification		
Dimensions		Depth	Width	Height	
(Without ADF paper chute and Stacker)		225 mm	399 mm	193 mm	
		(8.9 in)	(15.7 in)	(7.6 in)	
Installation Space		800 x 500 x 500 mm			
(D x W x H)		(31.5 x 19.7 x 19	(31.5 x 19.7 x 19.7 in)		
Weight		8.5 kg (18.7 lb)			
Input power	Voltage	100 to 120 VAC	±10% 220 to 240) VAC ±10%	
	Phases	Single-phase			
	Frequency	50 / 60 ± 3Hz			
Power consumption		57 W or less			
Ambient	Device status	Operating	Not ope	erating	
condition	Temperature	5 to 35 °C	-20 to 6	0 °C	
		(41 to 95 °F)	(-4 to 1	40 °F)	
	Humidity	20 to 80 %	8 to 95	%	
Heat capacity		49 kcal / H or less			
Shipping Weight		12 kg (33 lb)			

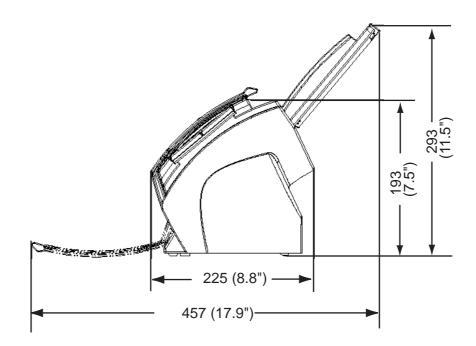
 ATTENTOR
 Installation Space is the reference value of an installation space required to read A3 documents.

 ATTENTOR
 Refer to Chapter 4 "REPLACING CONSUMABLES" (page 61) for details on the scanned number of sheets for current consumable.

7.3 External Dimensions

The following shows the external dimensions of the fi-5530C.





(Unit : mm)

Using [Scan] or [Send to] button

By setting the link of the application software to the [Scan] or [Send to] button, you can launch the linked application by simply pushing the button.

■ For Windows 98, Windows Me, Windows 2000, Windows XP

- 1. Select [Start]-[Control Panel].
- 2. Select [Scanners and Cameras]-[Properties].
- 3. Select the [Events] tab.
- 4. Select an Event. For the case of Windows XP, select an event for starting up any application from the [Select an event] menu.

Diagnosis	Device Info	Device Set	About
General	Events	Color Mar	nagement
Choose event o	an event below, then ccurs.	select the action to t	ake when th
Gelect an <u>e</u> vent:	🐌 Scan Button		~
Actions	Scan Button		^
Charle Main and	grai 🚰 Send to 1		-
O start this pro	Send to 3		
Prompt for w	hich program to run		
O <u>I</u> ake no act	ion		
O Save all pict	ures to this <u>f</u> older:		
H:\Docum	ents and Settings\Ow	ner\My Document	Browse
Create a	i subfolder usjng today	's date	
Deletere	ictures from camera a	fter saving them	
Delete p			

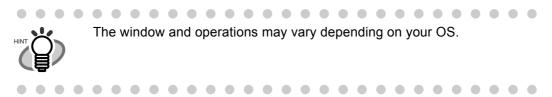
The events available for this function are:

- Scan Button (When pushing the [Scan] button)
- Send to 1-9 (When pushing the [Send] to button)

5. Select the application with its process, excuted by the event. For the case of Windows XP, click [Start this program] under [Actions] and select the application and process from the menu.

ieneral E	Events Color	Management	
<i>≫</i>	Choose an ev event occurs.	rent below, then select the action to take w	hen th
Select an	event:	Scan Button	*
Actions			
💿 Star	t this program:	🐌 ScandAll 21 ToFile	~
	npt for which p e no action	orog ScandAll 21 ToFile ScandAll 21 ToPrint ScandAll 21 ToPrint ScandAll 21 ToView ScandAll 21 ToPDF	
OSav	e all pictures to	S C MICHT M 1	Y
H:	Documents a	nd Settings\Owner\My Document	vse
		older using today's date s from camera after saving them	

6. Click the [OK] button.



■ For Windows 95, WindowsNT 4.0

- 1. Right click the [FUJITSU Scanner Control Center] in the task tray and select [Option].
- 2. Select the event for starting up the application from the [Event] menu.

FUJITSU Scann	er Control Center	X
~2	ner Information	
	ilmage.exe	
Event:	Start/Scan 💌	
Path: Argument:	Start/Scan Send to 1 Send to 2 Send to 3 Send to 4 Send to 5 Send to 6	
Start in:	J	
Run:	Normal	
Use al	Plug-In Setting	
OK	Cancel Apply Help	

The events available for this function are:

- Start/Scan button (When pushing the [Scan] button)
- Send to 1-9 (When pushing the [Send] to button)
- 3. Click [...] button right to the entry field of [Path] to select the application software to activate.
- 4. Click [OK].

APPENDIX B

GLOSSARY OF TERMS

A4 size

A standard paper size. Paper size is 210 x 297 mm.

A5 size

A standard paper size. Paper size is 148 x 210 mm.

A6 size

A standard paper size. Paper size is 105 x 148 mm.

A7 size

A standard paper size. Paper size is 74 x 105 mm.

A8 size

A standard paper size. Paper size is 53 x 74 mm.

ADF (Automatic Document Feeder)

A unit that allows the user to scan a number of pages consecutively. Fed documents are transported from the ADF paper chute (or hopper) to the Stacker. Actual scanning operation is executed by the mechanism inside of this unit. Backside reading = Back-side scanning Refers to reading the backside of the document, specifically in Duplex reading mode.

Automatic separation

An image processing method in which the scanner automatically detects difference between text and photos, and chooses the threshold accordingly. This function allows the scanner to switch between line mode and half tone mode in one pass.

Automatic size/skew detection

A function that automatically detects the documents' page size and adjusts output data to the detected page size. Document skewing is automatically detected and corrected for the output image.

Brake roller

A roller that prevents two or more sheets of paper from being fed simultaneously into the ADF.

Brightness

Refers to the brightness of scanned images in this manual.

Canadian DOC Regualtions

"A standard issued by Industry Canada, a department of the Canadian government, which sets out the technical requirements relative to the radiated and conducted radio noise emissions from digital apparatus."

CCD (Charged Coupling Device) Image Sensor

A semiconductor device inside the scanner that registers light reflected from the original image and converts it into a digitized (electronic) form. CCD technology is the basis of high-quality image acquisition in scanners, cameras, and other specialized devices.

Cleaning paper

Sheets used with the F1 cleaner for cleaning the rollers (pick rollers, feed rollers, etc.) and complete document path in the scanner. Used in daily maintenance of the low volume production scanner to reduce paper transport problems. Note: these sheets are not meant to replace the more thorough periodic cleaning of the scanner.

Cleaning sheet

Adhesive sheets used for cleaning the rollers (pick rollers, feed rollers, etc.) and complete document path in the scanner. Used in daily maintenance of the high volume production level scanner to reduce paper transport problems. Note: these sheets are not meant to replace the more thorough periodic cleaning of the scanner.

Color balance

Balance of colors in images.

Default settings

Pre-set values for optional menus.

Density

In this manual, refers to a measurement of the depth of the display.

Dither

The process by which a group of dots is arranged to represent a shade of gray. The predetermined dot pattern simulates shades of gray. This scanning process offers the advantage of reduce memory requirements compared to multilevel gray.

Document jam

A warning that appears when document is jammed in the transport unit, or transportation is Interupted because the paper is slipping.

dpi

Dots per inch. Number of dots lined along one inch A measurement of resolution normally used for scanners and printers. Higher dpi means better resolution.

Driver software

In this manual, driver software refers to software that allows the scanning application software to communicate with the scanner.

Dropout color

A color which is used in the document but does not appear in the read image.

Duplex reading mode

A mode for scanning both sides of the document in one pass.

Eject rollers

Rollers that transport documents from the ADF onto the Stacker.

Energy Star

ENERGY STAR is an international standard for energy-efficient electronic equipment. It was created by the US Environment Protection Agency (EPA) in 1992. The standard program has now been adopted by several countries around the world.

Equipment Error

An error that cannot be fixed by the operator. The operator should call the manufacturer for service.

Error diffusion

High-quality halftone (pseudo-grayscale) image production based on black-and-white pixel binarization. A pixel's optical density and that of adjacent pixels are summed, with black pixels relocated in their order of density as they relate to adjacent pixels. The purpose of this technique is to minimize the average error between read and printed densities. Density data for adjacent pixels is modified by diffusing errors on the objective pixel into several pixels, which are then binarized. This maintains high grayscale levels and resolution during reading, while suppressing more patterns by dotted halftone images such as newspaper photographs.

FCC

Acronym for "The Federal Communications Commission", an independent United States government agency which is in charge of regulating interstate and international communications via radio, television, wire, satellite and cable. The Part 15 of the FCC regulations mentioned in this manual is designed to prevent harmful interferences on radio communication of radio receivers and other devices which radiate radio frequency energy, and provides for the certification of radio receivers. It also provides the certification of low power transmitters and the operation of certificated transmitters without a license.

Feeds rollers

Rollers that feed documents through the ADF.

Filtering

A correction method that improves the read quality of handwritten documents. The read quality of images written in pencil or ball-pointed pen depends on the reflective light characteristics of the specific ink or lead used. Dropped pixels may produce outlines, gaps, or thin, barely connected lines due to uneven optical density. Filtering detects areas lighter than their surroundings and increases their density to improve image clarity. Flat bed An input device of the scanner, where documents are placed and scanned. Generally used for scanning pages out of a book, or paper that is out of the feeding specification of the ADF. Also used to scan a small volume of documents by manual operation.

Flatbed

An input device of the scanner, where documents are placed and scanned. Generally used for scanning pages out of a book, or paper that is out of the feeding specification of the ADF. Also used to scan a small volume of documents by manual operation.

Gamma

A unit of changes of images' brightness. It is expressed as a function of the electric input power to devices (scanner, display, etc.) and an image's brightness. If the gamma rate is larger than 1, the brightness of an image increases and vice versa. In order to adjust the brithtness of an image close to the orignal, generally the gamma value is set to 1.

Grayscale

A method for realizing the gradation from black to white on the scanned image. For example, when scanning monochrome documents, the computer recognizes the documents as sets of black and white dots. In the Gray scale method, each dot contains data regarding density of black. The original gradation of the documents is realized as the gradation of the density data.

Halftone processing

Any method used to reproduce a photograph which includes a shade as an image composed of dots, namely, a binary image. Dithering and error diffusion processing are examples of halftone processing.

Image emphasis

Density is decreased for lighter but not completely white areas adjacent to black areas. Weakening this emphasis eliminates spot noise or produces softened images.

Image processing

An image is scanned with specified parameters.

Interface

The connection that allows communication from the computer to the scanner.

Inversion (Reverse-image reading)

In reverse-image reading, data is changed from black to white and vice versa.

IPC preset mode

While reading binary images, it is necessary to set the scanner according to the quality of the sheet to be read. In this mode, these settings can be performed in advance by corresponding each setting to a pattern number.

ISIS (Image Scanner Interface Specification)

A standard of API (Application Program Interface) or protocol for imaging devices (scanners, digital cameras, etc.) developed by Pixel Translations, a division of Captiva Software. In order to use imaging devices designed on the ISIS standard, it is necessary to install the driver software of the same standard.

Jaggy images

Images that have sharp projections or irregular shape on their edges.

Job separation sheet

A sheet inserted between documents in a batch for separating different jobs.

Landscape

A document is transported and read with the Short side parallel to the moving direction.

Landscape orientation

A document is transported and scanned with the long side vertical to the moving direction.

Letter size

A standard paper size used in the U.S.A. and other countries. Paper size is $8-1/2 \times 11$ inches.

Linedrawing mode

Selecting linedrawing mode makes threshold and contrast settings effective but prevents brightness from being set. The specified threshold value determines whether black or white pixels are scanned. Line drawing mode is therefore appropriate for scanning text and line art images.

Multi Feed detection

A scanner function which detects accidental feeding of multiple sheets into the ADF. This can be set as both enabled/disabled.

Mirror image

The read image is symmetrically flipped to produce a mirror image of the original detected in the main scanning direction.

Moire Patterns

Recurrent patterns on scanned images caused by incorrect settings of angles.

Noise removal

Isolated noise from an image appearing as black spots in white areas and voids in black areas is removed to improve image quality.

Removes particles from the document image. Common particles include toner and fax particles. Noise reduction works via an algorithm that removes pixels up to 5×5 dots appart. A dot is 1/400 inch. A particle can be distinguished from a character as it is not connected to another dot within 5 pixels.

OCR (optical character recognition)

Devices or technologies for identifying characters on documents and converting them into text data that can be manipulated. The documents are checked by light and the differences of light reflection are recognized as character shapes.

Operator panel

A panel consists of indicators and buttons. The operator panel is used to control scanner operations such as, selecting features, and changing settings.

Optical sensor

A type of sensor for detecting Multi Feeding by light transmission. It also detects multi feeding by recognizing differences in length of documents.

Outline extraction

The boundary between black and white areas is traced and the outline extracted for closed areas.

Pad ASSY (Pad Assembly)

This part is used to separate a sheet of paper from a batch before feeding documents into the ADF. This assembly is made out of rubber.

Photograph mode (White level follower OFF)

Selecting photograph mode makes brightness and contrast settings effective but prevents the threshold from being set. With photograph mode, the darkness of image corresponds to the black-pixel density, making it suitable in scanning images such as photographs having gradations.

Pick roller

Roller(s) that picks the page from the batch of paper in the paper chute and feed it into the ADF.

Pick start time

The period from the manual insertion of the document until picking starts after the document passes the hopper empty sensor.

Pixel (Picture Element)

The tiny dots that make up a scanned image.

Portrait

Orientation of documents or images. Documents/images are set or displayed vertically.

Portrait orientation

A document is transported and read with the long side parallel to the moving direction.

Resolution

The measure of the details or grain of images displayed on a computer screen. As a metric of the resolution, dpi is customarily used.

SCSI (Small Computer System Interface)

An abbreviation for "Small Computer System Interface". SCSI is a standard for interfaces, used to connect devices such as hard disks, scanners, etc. Up to seven devices can be connected through this interface (daisy chain). The data transfer rates are different between "Fast SCSI" (Max. 10MB/sec.) and "Wide SCSI" (Max. 20MB/sec.).

SCSI-ID

Used to specify a particular SCSI device when the initiator selects a target or the target reconnects to the initiator.

Separation roller

A roller that separates the sheets of paper from each other.

Simplex reading mode

A mode for scanning only the front side of the document.

Smoothing

A process that eliminates "jaggies" from slanted lines and curves. Irregular convexities are deleted and irregular concavities filled in. This is useful in OCR applications, for example.

Storage temperature/humidity

The temperature and humidity levels necessary for proper storage of the scanner. Temporary Error An error that can be fixed by the operator.

Terminator

Devices with a SCSI interface can be daisy-chained. A resistor that includes terminal circuits needs to be placed at both ends of the SCSI chain when devices are daisychained. If a device (such as a scanner) is the last device in a chain, leaving an interface connector unused, a Terminator therefore must be attached to provide those terminal circits.

Third Party Interface

Used to install optional board provided by Fujitsu or interface board manufactured by a third party.

Threshold

A value used as a metric for judging a color as black or white. For scanning an image with gray gradation, this value must be defined. The threshold setting determines which pixels are converted to black and which will become white.

TUV

"An institution that controls products for conformity with various standars of security, usability and environmental matters. "

TWAIN (Technology Without Any Interesting Name)

A standard for API (Application Program Interface) or protocol for imaging devices (scanners, digital cameras, etc.) developed by TWAIN Working Group. In order to use devices that comply with this standard, it is necessary to install driver software based on the same standard.

Ultrasonic sensor

A type of sensor for detecting multi feeding by ultrasonic sound. Scanners detect multi feeding by recognizing differences in the amount of ultrasonic waves that penetrates the documents.

USB (Universal Serial Bus)

An abbreviation for "Universal Serial Bus". A standard for interfaces used to connect devices such as key boards, scanners, etc. Up to 127 devices can be connected through this interface. USB devices can be plugged/unplugged without turning off their power. Data transfer rates are different between the "Low speed mode" (1.5Mbps) and "High speed mode" (Max. 12Mbps).

White level follower

A function to correct the difference between white colors in unbleached paper (e.g. wood containing paper, etc.) and in scanned images.

White Reference Stripe

The white part located in the ADF that defines the lightest area in an image, causing all other areas to be adjusted accordingly.

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