

fi-5950 Image Scanner

Operator's Guide





INTRODUCTION

Thank you for purchasing the fi-5950 Image Scanner.

The fi-5950 is an image scanner designed to scan various documents in large quantities. The fi-5950 has the following features.

Improvement of color scanning speed (105 sheets or 210 pages per minute) with high resolution (300dpi)

By the newly-developed high speed CCD and high speed image processing circuit, scanning speed (A4 color, 300dpi) of 105 sheets/210 pages per minute) is improved. Now you can scan a large amount of documents which is about 100,000 sheets a day!

Efficient pre-processing and post-processing!

This scanner is able to scan mixed documents stables of papers of different color, density, size and thickness. This makes the scanning process even simpler and economic, since you no not have to sort out the documents before scanning any more! Furthermore, this scanner is equipped with an "Elevator" Stacker, moving automatically into the appropriate height, according to the amount of loaded documents. This will make the documents be easily and elegantly handled and also increases your scanning efficiency!

Prevention of data loss because of improved multi feed detection

This scanner is equipped with ultrasonic multi feed detection sensors, which detect reliably the feeding of 2 or more documents together into the scanner. Those multi feed can also be detected surely, when scanning documents of different thickness, size, color or density. This will help you to increase your efficiency, since the data loss caused by multi feed is detected immediately. This gives you the opportunity to correct the scanning without too much troubles and loss of time.

High image processing function

The automatic detection function of this scanner is able to detect if the loaded documents are color or monochrome and according to the detection the appropriate settings will be automatically chosen for the image creation. Since the scanner does this automatically, you do not have to set the image settings each time before scanning. Furthermore, The Kofax VRS image processing board is installed as standard equipment for this scanner. This VRS board which has a good reputation for image processing on a high level, enables you to create images of high quality and provides advanced functions like the "Automatic direction correction" and "Background equalization function".

Pre- and Post imprinter option can be installed

In today's document business, imprinters provide a vital tool for archiving, controlling and verification processes. For this scanner, you can select two optional types of imprinters, depending on your needs. The Pre-Imprinter Option prints information on the front side of the documents prior to the scanning. When using Pre-imprinter, the printed information will also be stored on the generated image. The Post-Imprinter on the other hand, will print after the scanning on the back sides of your documents. So only the originals, and not the images, will contain the imprint.

About this manual

The manual provides the following information.

1. NAMES AND FUNCTIONS OF PARTS

This chapter describes names and functions of parts.

2. BASIC OPERATIONS

This chapter describes basic scanner operations and basic document scanning.

3. SCANNING VARIOUS TYPES OF DOCUMENTS

This chapter describes how to scan various types of documents.

4. DAILY CARE

This chapter describes how to clean the scanner.

5. REPLACING CONSUMABLES

This chapter describes how to replace consumables.

6. SOLVING COMMON PROBLEMS

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

7. ADF DOCUMENT SPECIFICATIONS

This chapter describes documents that can be used with this scanner.

8. SCANNER SETTINGS

This chapter explains the how settings can be done for the scanner using the Software Operation Panel.

9. OPTIONS

This chapter describes the options available for this product.

10. SCANNER SPECIFICATIONS

This chapter lists the scanner specifications.

The "Getting Started" is supplied to this Scanner. This guide contains necessary information for getting started the scanner, also read the Getting Started.

1. PREPARING THE SCANNER

This chapter describes how to prepare the scanner for use.

2. INSTALLATION OF THE SCANNER

This chapter describes how to install and connect the scanner, and how to install the scanner application.

We hope that this manual is useful in taking full advantage of the fi-5950 Image Scanner features.

Regulatory Information

FCC Regulations

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 will not occur in a particular installation. If this equipment does cause harmful 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.

• The 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 SCSI interface cable must be 1.5 meters (5 feet) or less.
• 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 présent appareil numérique n'émet pas de parasites radioélectriques dépassant les limites applicables aux appareils numériques de la classe B et prescrites dans le Règlement sur le brouillage radioélectrique dictées par le Ministère des Communications du Canada.

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

Bescheimigung des Herstellers / Importeurs

Für den fi-5950 wid folgendes bescheinigt:

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

Dieses Gerät wurde nicht für die Benutzung in unmittelbarer Umgebung starker Lichtquellen (z. B. Projektoren) konzipiert.

ENERGY STAR[®]

PFU LIMITED, a Fujitsu company, has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

 $ENERGY\ STAR^{\circledast}$ is a registered trademark of the United States.



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 serious danger to life and health when an extremely 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.

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Kofax and VRS are either registered trademarks or trademarks of Kofax, Inc.

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

How Trademarks Are Indicated In This Manual

Product	Indica	ition
Windows [®] 2000 Professional (Service Pack 4 or later)	Windows 2000	Windows (*1)
Windows [®] XP Professional (Service Pack 2 or later),	Windows XP	
Windows [®] XP Professional x64 Edition,		
Windows [®] XP Home Edition (Service Pack 2 or later)		
Windows Server [®] 2003 Standard Edition,	Windows	
Windows Server [®] 2003 Standard x64 Edition,	Server 2003	
Windows Server [®] 2003 R2 Standard Edition,		
Windows Server [®] 2003 R2 Standard x64 Edition		
Windows Vista [®] Home Basic (32/64-bit),	Windows Vista	
Windows Vista [®] Home Premium (32/64-bit),		
Windows Vista [®] Business (32/64-bit),		
Windows Vista [®] Enterprise (32/64-bit),		
Windows Vista [®] Ultimate (32/64-bit)		
Windows Server [®] 2008 Standard (32/64-bit),	Windows	
Windows Server [®] 2008 R2 Standard	Server 2008	
Windows [®] 7 Home Premium (32/64-bit),	Windows 7	
Windows [®] 7 Professional (32/64-bit),		
Windows [®] 7 Enterprise (32/64-bit),		
Windows [®] 7 Ultimate (32/64-bit)		
Adobe [®] Acrobat [®]	Adobe Acrobat ((*2)

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

- *1 Where there is no distinction between the different versions of the above operating system, the general term "Windows" is used.
- *2 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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■ Note of 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, store this manual in a convenient and 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.

Preface

Safety Precautions

This manual describes important details for ensuring the safe and correct use of this product. Thoroughly read this manual before you start to use this product. In particular, be sure to read and fully understand the Safety Precautions described in this manual before you use this product.

Warning Indications Used In This Manual

This manual uses the following indications to ensure safe and correct use of this product, and to prevent possible danger and injury to the Operator and other persons.

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.



This manual uses the following symbols in explanations in addition to warning indications.





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.

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.

Furthermore, the screenshots in this manual are for the TWAIN driver, ScandAll PRO Image Capturing Utility Software, ISIS driver and Adobe Acrobat.

The Operator Panel Language Display

Apart from English, the operator panel can also display French, German, Italian, Spanish, and Chinese (Simplified). In this manual, the language display of the operator panel is shown in English.

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.

Safety Precautions

The following describes important warnings described in this manual.



Do not insert or drop any foreign objects (water, liquids, small metal objects, etc.) into the opening sections on the scanner.

If foreign objects get inside the scanner, immediately disconnect the power cable from the AC outlet.

Then, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider. Pay particular attention to this warning in households where there are small children.



If the scanner is damaged for any reason, immediately disconnect the power cable from the AC outlet. Then, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.



In the following situation, immediately disconnect the power cable from the AC outlet. Not doing so may cause a fire or electric shock.

- Smoke or heat coming from the scanner is detected.
- Strange noise or smell is detected.
- Foreign objects (water, liquids, small metal objects, etc.) get inside the scanner.
- Other problems which indicate a scanner failure are detected.

Then, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider. Never try fixing such problems by yourself. Doing so is dangerous.



Do not take apart or modify the scanner as high-voltage components inside the scanner are dangerous. PFU assumes no liability to any damage caused by taking apart the scanner, as doing so is not covered under the warranty.



The area around the part to which this warning label is affixed can become very hot. To avoid burns, never touch around the area indicated by this label.



Firmly insert the power cable into the AC outlet. Not doing so may cause a fire or electric shock.



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



Use only power cables provided with the scanner. Do not use any extension cords. Not following these instructions may cause abnormal heat or a fire. Do not also use the power cable provided with the scanner for other devices, since this might cause problems such as an equipment failure, or an electric shock.



Do not install in places that are damp or subject to smoke, steam, or dust, as this may cause a fire or electric shock.



Do not install the scanner in the following locations which are subject to high temperature, humidity, less ventilation, or dust. If placed in an area subject to high temperature, the cover may become overheated and deformed, causing the scanner to become hot, resulting in a fire.

- A place near heat-radiating devices such as stoves or electric heaters, or flammable items such as volatile inflammable materials or curtain.
- A place such as a bathroom, shower room, or swimming pool where it may easily get wet.
- A place under direct sunlight, in a car under the scorching sun, or near heating apparatus where it may get hot.



To avoid injuries, do not place the scanner in an area where small children may be able to reach.



Before moving the scanner, be sure to disconnect the power cable from the AC outlet, and all other interface cables. Make sure that the floor is free of any obstructions. Do not move the scanner with the power and interface cables connected as this can damage the cables, which can later cause a fire, electric shock as well as injuries.



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



When removing the power cable from the AC outlet, make sure to hold the power plug and not the cable. Pulling the power cable may damage it, which may cause a fire or electric shock.



Do not use a damaged power cable. Also, do not insert any cables or power plugs into loose sockets. Doing so may cause a fire or electric shock.

Be careful of the following when handling the power cable:

• Do not modify the power cable.

• Do not place heavy objects on the power cable.

• Do not pull or bend the power cable.

If the power cable is damaged, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.



Do not place heavy objects on the scanner or perform other work on top of the scanner. Doing so might cause injuries or an equipment failure.



Do not use the scanner while covered with a blanket, etc. Doing so may raise the temperature inside and cause a fire.



Avoid getting a sleeve, necktie, or hair caught up in any scanner mechanism during scanning since this may cause injuries.



Do not touch the heated section such as the bottom of the scanner for a long time. Doing so may cause a low-temperature burn on your skin.



When the scanner is not going to be used for a long period of time, be sure to disconnect the power cable from the AC outlet. Not doing so may cause a fire or electric shock.



Do not use any aerosol sprays or alcohol based sprays to clean the scanner. Dust blown up by strong air from the spray may enter the inside of the scanner. This may cause the scanner to fail or malfunction. Sparks, caused by static electricity, generated when blowing off dust and dirt from the outside of the scanner may cause a fire.



Check the following items once a month:

- The power cable is firmly inserted into the AC outlet.
- •The power cable is not emitting abnormal heat, or the power cable is not rusted or bent.
- •Dust is not accumulated on the power cable. If so, wipe off any dust with a soft, dry cloth.
- The power cable does not have any cracks or scratches.

If any abnormality is detected, contact your FUJITSU scanner dealer or an authorized FUJITSU scanner service provider.



Make sure to ground to avoid electric shock. Be sure to ground before plugging into the AC outlet. Unplug from the outlet before removing the ground connection.

The following describes important cautions described in this manual.



When installing the scanner on a table, make sure that the table is flat and level. Place the scanner so that none of its parts extend beyond the edge of the table, otherwise it may fall or collapse and cause injuries.



Install the scanner away from strong magnetic fields and other sources of electronic noise. Protect the scanner against any static electricity and choose a static-free place to install the scanner.

Static electricity can cause the scanner to malfunction.



If there is an electrical storm, disconnect the power cable from the AC outlet. Lightening can travel through wires and water pipes and damage the scanner, which may damage your property.



Do not supply the power from the AC outlet where the devices requiring much power such as copying machines or paper shredders are connected.



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



Do not use the scanner immediately after moving it from a cold place into a warm room. Condensation may occur, which might lead to scanning errors. Let the scanner dry for one or two hours before you use it.



When handling documents, be careful not to cut your fingers with them.



When carrying the scanner outside while it is raining or snowing, pay special attention so the scanner does not get wet.

If the scanner gets wet, wipe it or wait until it dries.



When transporting the scanner, never carry it alone. The scanner is heavy.

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1 NAMES AND FUNCTIONS OF PARTS

This chapter describes names and functions of various parts of the scanner.

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1.1 Names and Functions of Parts

This section describes the names of parts.

Front side



No.	Name	Function
1	Stopper	Prevents ejected documents from dropping off the scanner.
2	Stacker side guide	For aligning ejected documents to a certain width.
3	Top cover	Cover to access the consumables storage box and Post-Imprinter option (sold separately).
4	Stacker	Documents will be ejected into the Stacker after scanning.
5	Ejector	For ejecting the documents after scanning.
6	Operator panel	For operating the scanner.
7	Stacker extension	For scanning long documents. Pull the extension out according to the document's length.
8	ADF cover	Open the cover for cleaning the inner parts of the ADF or for replacing consumables.
9	ADF cover open button	Button used to open the ADF
10	Pre-imprinter cover	For the Pre imprinter option
11	ADF (Automatic document feeder)	The documents loaded onto the Hopper will be fed sheet by sheet for scanning.
12	Hopper extension	Pull the Hopper extension out for loading long documents.
13	Hopper	Documents to be scanned are loaded onto the Hopper.
14	Hopper side guides	Sheet Guides used to make sure that the paper to be scanned is fed into the scanner straight, avoiding skew.
15	Power button	Switch the scanner ON&OFF.

■ Rear side



No.	Name	Function
1	Main power switch	For switching the power supply ON/OFF.
2	Power connector	For connecting the AC cable.
3	SCSI ID Switch	Sets the scanner's SCSI ID.
4	SCSI connector	For connecting the SCSI cable.
5	USB connector	For connecting the USB cable.
6	Extended memory	For connecting an extension memory (sold separately). For details see
	slot	section 9.4.
7	VRS slot	The VRS board has been installed in this slot.
8	Extended slot	A spare slot for a third party board

Removable Parts



No.	Name	Description
1	Document smoother	Attached when the stacker position is set to align the ejected document by the leading edge (see page 24), or when scanning documents with different widths (see page 67).
2	Pick Rollers	Rollers that pick the paper from the hopper into the ADF. This is a con- sumable item.
3	Separator rollers	Roller used to help separate the paper as the feeding begins. This is a con- sumable item.
4	Brake rollers	Roller used to help separate the paper as the feeding begins. This is a con- sumable item.
5	Pad	Separation Pad used to help separate the paper as the feeding begins. This is a consumable item.

NAMES AND FUNCTIONS OF PARTS

1.2 Operator panel

The operator panel is located on the right side of the scanner. The panel consists of a Function Number Display, buttons and LEDs.



Name	Function
Function Number dis- play and Function button	Shows the status of the scanner. For details, refer to "Indications on the Function Number Display" (page 6).
Function	
Hopper height adjustment button	Use these buttons to adjust the height of the Hopper to the Upper/Middle/ Lower Positions. The hopper moves automatically to the right position after recieving a scan- ning command. However, this may cause a delay before the actual scanning starts. To avoid unnecessary waiting time, it is recommended to set the hop- per height prior to scanning. For details, refer to "2.5 Setting the Hopper Height" on page 15.
Document thickness adjustment button Paper Thidmess Thin O O O O O Thick	Use this buttons, to set the paper thickness of the documents. (Normally no need to change from the default setting) For details, refer to "2.9 Setting the Paper Thickness" on page 29.
[Send to] button	Use this button to start linked application. When this button is pressed at manual feed mode, the scanning stops immedi- ately. (* About the settings, refer to section "2.14 Before Using [Scan] / [Send to] button" on page 60, or the TWAIN Driver help.)
[Scan] button	Use this button to start linked application. When this button is pressed during scanning operation, the scanning is can- celled. (* About the settings, refer to section "2.14 Before Using [Scan] / [Send to] button" on page 60, or the TWAIN Driver help.)
Power button	Use this button to turn the power ON/OFF. When the power is turned on, the button is illuminated in blue.



Operator Panel Overlays sheets in French, German, Italian, Spanish and Chinese (Simplified) are provided with the scanner. To change the overlay, open the plastic cover of the Operator Panel.



Indications on the Function Number Display

The following shows the indications on the Function Number Display.

No.	Descriptions
B	Lights only one time upon turning on the scanner.
P	Indicates that the scanner has been turned ON and is being initialized.
{	Indicates that initialization has been completed successfully. This status is called "Ready Status".
or	Indicates that a temporary error (that users can solve) has occurred during the initialization or scanning of documents. "J" or "U" and an error number (1, 2, 4, 6, 8, 0) are displayed alternately. To return the scanner to the ready status ("1"), press the "Scan" or "Send to" button while the error is indicated.
E	Indicates that a device alarm (that users can not solve) has occurred during the initialization or scanning of documents. "E" and an alarm number (0, 2 to 9, and A, c, d, F, 10 to 12, 15 to 19, 1A, 1b) are indicated alter- nately. To return the scanner to the ready status ("1"), press the "Scan" or "Send to" button. If this alarm occurs, turn the power off and then on again. If the alarm is indicated after turning on the power again, contact your service engineer.

2 BASIC SCANNER OPERATIONS

This chapter describes basic scanner operations.

This chapter explains operations using the screens of Windows XP. Depending on your OS, your PC's screen shots and the operation may be different from this manual. Be aware that when the TWAIN driver, or the ISIS driver is updated, the screens and operations noted in this chapter may be changed slightly. In this case, refer to the User's Guide provided with the update.

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2.1 Turning the Scanner ON /OFF

Turning the Power ON



1. Press "I" side of the main power switch located on the back of the scanner.



2. Open the Hopper.



3. Press the Power button on the Operator panel.

The power turns on and the Power button lights up.

During initialization, the Function No. Display changes from "8" --> "P" to "1" in order. When "1" shows, it means the scanner is ready.



BASIC SCANNER OPERATIONS

■ Turning the Power OFF

Hold the Power button for at least two seconds.





If the scanner will not be used for an extended period, turn off the scanner's main power switch on the back and unplug the power cable.



2.2 Opening and Closing the Hopper

Opening the Hopper

1. Hold the centrer of the upper part of the Hopper.



2. Flip down the Hopper gently.



2

Closing the Hopper

- 1. Remove the document if there is any on the Hopper.
- 2. Slide the extension in the Hopper.



3. Restore the original position of the hopper if the height of Hopper is adjusted.

Lower the hopper to the bottom by pressing the \bigtriangledown button. (Refer to "2.5 Setting the Hopper Height" on page 15)

4. Close the Hopper.



2.3 Opening and Closing ADF

Opening ADF

1. Remove the document if there is any on the stacker.



2. Press the ADF cover open button.



 \Rightarrow The cover is slowly opened.



Closing ADF

1. Hold the ADF cover with both hands and press it down slowly.



Press the ADF cover until it is fixed.



2.4 Opening and Closing Top Cover

Under the Top cover, there are a storage tray for storing the consumables and cleaning goods and a space for installing the Post-Imprinter. When you use the tray or access the Post-Imprinter, open the top cover as follows.

Opening the Top Cover

Press the tabs of the Top cover and open the top cover.



Space for installing the Post-Imprinter

I Closing the Top cover

Close the Top cover and press lightly until it is fixed with the tab.



2.5 Setting the Hopper Height

When there is no alarm (the function number display is showing "1"), the Hopper height can be adjusted. When the scanning load is not very heavy, setting the hopper higher will shorten the time it moves to the feeding position.

Do not touch the hopper when it is being adjusted. Your finger(s) may be pinched.
Do not load anything onto the hopper when it is moving. If something gets into the mechanism, the scanner may be damaged.
Do not place anything under the hopper. The hopper may collide with it and become damaged.
Do not press the [Hopper Height] button (\(\Delta\vee\)) when the hopper is closed. The hopper may be damaged.

Adjustment is not possible when:

- The scanner is scanning
- The hopper is closed.
- •When using Software Operation Panel (see page 173).

Three hopper heights are available and the corresponding capacities are as follows.

Middle: Up to 300* sheets

Low: Up to 500* sheets

*: Estimated using paper of 80g/m² (20lb).





Depending on the thickness of the document, the loading capacity differs. Refer to "7.3 Maximum Document Loading Capacity" on page 162.



The adjustment is done by using the Operator Panel on the scanner.

When you press the \triangle button, the hopper is raised one step higher.(Low \rightarrow Middle \rightarrow High) When pressing the ∇ button, the hopper is lowered one step lower.(High \rightarrow Middle \rightarrow Low)


Preparing the Document

1. Align both edges of the documents.



For how to scan the document with different widths, refer to "3.3 Scanning Documents with different widths" on page 67.

2. Fan the documents.

- 1) Take a stack of documents about 15mm to 20mm thick (1/2 to 3/4 inch).
- 2) Hold both ends and bend the documents into an arch.



3) Firmly holding the document with both hands, bend back the document as follows so that the bent section rises up in the middle of the document as follows.



- 4) Repeat steps 1) to 3) for a few times.
- 5) Rotate the document 90 degrees, and fan again.
- 3. Align the leading edges of the documents.

BASIC SCANNER OPERATIONS

Setting the Document

There are 2 ways to set documents on the hopper.

- (1) Set the document at the center of the hopper (mainly for document of equal size pages).
- (2) Set the document by either side of the hopper (mainly for document of different size pages, or you want to align the document by the side instead of the center line).

(1) Setting the document at the center of the hopper

1. Load the document on the hopper.

Place the document face-up on the hopper.



2. Adjust the Side guides to the document width.

Pressing the lock lever, slide the Side guides so that they contact the document sides.

If there is space between the document edges and the guides, the scanned images may be skewed.





3. Start the scanner application and scan the document.

For the details on how to scan using ScandAll PRO, refer to "2.10 Scanning Documents" on page 30.

(2)Setting the document by either Side Guide of the hopper.

For scanning documents with pages of different sizes, see section "7.8 Scanning Mixed Documents" on page 168.

1. Move the hopper side guides to their outermost positions.



2. Lock the side guide not to be used.

Flip up the lock switch on the front side of the side guide to lock it.



3. Move the other side guide to the desired position while pressing down the lock lever.



4. Set the document against the side guide.

Set the documents with the front side (scanning side) facing up.





5. Start the scanner application and scan the document.

For the details on how to scan using ScandAll PRO, refer to "2.10 Scanning Documents" on page 30.



Lock Lever

3.Release the lever.

 \Rightarrow Now the two sides will move symmetrically as before.

• •

2

BASIC SCANNER OPERATIONS

2.7 Setting up the Stacker

The document set on the hopper, once scanned, will be ejected onto the stacker.

You can adjust the inclination of Stacker table to align the leading edge of document or not. Also you can fix the height of Stacker table for thin paper stacking.

Set up the Stacker by adjusting the Stacker extension, Stopper, Side Guides and Stacker's inclination.

Stacking the document

1. Pull out the stacker extension in accordance with document length.





When scanning long pages (longer than A3), the document may be longer than the stacker extension even if it's pulled to the outermost position. In case like this, place a thick paper about the size of A4 on the stopper and make a slope as depicted below.



(The scanner can scan document up to 3,048mm (120inch) long. Refer to "7.1 Document Size" on page 158.)

2. Adjust the stacker side guides to the document width.



Changing Stacker inclination/motion

The location of the stacker can be switched when ejecting documents by fixing the stacker height in the appropriate position, or by using either the horizontal setting for bottom edge alignment or the tilting forward setting for leading edge alignment. The factory default is set to the horizontal setting. When using the tilting forward setting for leading edge alignment, follow the procedure below to switch the position of the stacker.



<Switching to the tilting forward setting>

- 1. Slide the stacker out towards you.
- 2. Push down the part of the stacker which is closer to you.



 \Rightarrow The stacker inclines towards you.

3. Move your hands away from the stacker slowly.

 \Rightarrow The stacker will be fixed in a position tilting forward.



<Switching back to the horizontal setting

- 1. Slide the stacker out towards you.
- 2. Push down the inner part of the stacker.



 \Rightarrow The stacker goes back into its horizontal position.

3. Move your hands away from the stacker slowly.

 \Rightarrow The stacker will be fixed in a horizontal position.

When set to the "bottom edge alignment" position, the stacker will automatically adjust its height according to its load.
 When set to the "Bottom edge alignment" position, the stacker's maximum load will be 500 sheets.

 On both sides walls of the stacker, photo sensors are installed to detect document height on the stacker. Make sure these sensors are not blocked.

 Photo sensors



 The stacker may move up or down when the scanner is in the ready status up or when scanning starts. Do not touch the stacker or place anything on it at those times.

<Changing Stacker table motion>

Thin paper sometimes curles when it is ejected to the stacker. This method may be effective to improve the stacking capability by fixing the stacker hight in the appropriate position.

- 1. Close the scanner driver dialog box if it is displayed on the PC monitor.
- 2. Press both Hopper Height buttons on operator panel (\bigtriangleup and \bigtriangledown) for more than 2 seconds.

⇒Every time this is done, the stacker table moves between the lowest position and the position little a bit above. Set the stacker table at the position little a bit above the lowest position.

2.8 Using the Document smoother

The ejected document may not stack correctly when the stacker's angle is adjusted to the tilting forward setting (see page 24), or when scanning document of different size pages (see page 67). If that is the case, install the Document Smoother as described below.

The Document Smoother will suppress the splattering of ejected pages so they will stack correctly.

1. Prepare the Document Smoother.



2. Insert one of the tabs into the slit in the scanner.



- Document Smoother
- 3. While bending the center part, insert the other tab into the scanner slit.

 \Rightarrow It will look like this when installed.

2.9 Setting the Paper Thickness

When multifeeds or paper jam occurs frequently, adjust the paper thickness by using the Paper Thickness button on the operator's panel. (Under normal circumstances, use the default setting.)

Set the paper thickness on the Operator Panel.



When pressing the \triangleright button, the scanner is set for one level thicker document. When pressing the \triangleleft button, the scanner is set for one level thinner document.

The following five (5) steps of document thickness are selectable.

Thin	Thick				
•000	OO:	Thin	↑	Prevent picking failure and paper jam	
0000	OO:	Medium thin			
0000) ():	Medium (Documents with thickness	of 5	2 through 127g/m ²) <default setting=""></default>	
000	O:	Medium thick			
0000) ●:	Thick	\downarrow	Prevent multifeeding	



- When multifeeds occur frequently, set the thickness level thicker.
- When picking failure or paper jams frequently occur, set the thickness level thinner.

• Multifeeds, picking failures and paper jams can also occur due to worn-out of the consumables and dirt of the rollers. When such problems are not cleared, change the consumables or clean inside of the scanner.

2.10 Scanning Documents

This section explains about the basic flow of scanning operations.

In order to use the scanner to scan documents, you need a scanner driver and an application that supports the driver.

The scanner is bundled with the TWAIN-compliant driver called "TWAIN Driver", the ISIS-compliant driver called "ISIS Driver", the image processing software "Kofax VRS", and the "ScandAllPRO (TWAIN driver/ISIS driver)" application which supports the "TWAIN Driver", the "ISIS Driver", and "Kofax VRS".

For details about the scanner drivers, refer to the following:
"2.13 Configuring the Scan Settings" on page 43
TWAIN Driver Help
ISIS Driver Help
For details about Kofax VRS, refer to the following:
Virtual ReScan (VRS) User Guide
Read Before Using VRS
For details about ScandAll PRO, refer to the following:
How to Use ScandAll PRO
ScandAll PRO Help

1. Load the documents on the hopper.

Refer to the section "2.6 Loading Documents on the Hopper" on page 17.

2. Adjust the stacker table to the document size.



ScandAll PRO will be used here as an example to explain the procedure.

ScandAll PRO - Untitled	
ile Scan Edit View Page Mark Zoom Tool Help	
드 내 물 표 및 백 박 🗋 🖉 🍳 🗃 🔓 🖉 🗖 🔂 🖬 🔂 등 등 등 등 🖄 등	6
표 🖬 🔍 🖉 🛃 🕼 🖧 🗸 🗸 🖧 🤹 🖧 🖬 🖘 🔽 🖬 🖉 🖬 🖉	
When ScandAll PRO is launched	

For information on how to launch ScandAll PRO, refer to "How to Use ScandAll PRO".

4. Select a scanner driver to use for scanning.

p	
t Scan View Hot Key Event Password	
Device Driver	
● TWAIN	
Enable automatic search of scanners	
◯ ISIS / VRS	
Report Scan Result	
Do not output	
File Name : C:\Documents and Settings\bs2\My Documents\	Browse
Temporary Directory	

	🐊 ScandAll PRO - Untitled	
	File Scan Edit View Page Mark Zoom Tool Help	
	Scan Settings Ctrl+N	
	Batch Scan Batch Scan Settings Ctrl+B Save Batch Scan Restore Batch Scan Delete Saved Data	
	Scanner Seltion Select Scanner	
	Cancel(P)	
For TWAIN Driver		
	Select Scanner	
	Device :	
	FUJITSU FI-5950d	
		
For ISIS Driver		
	Select Scanner	
	Device : Select	
	Fujitsu fi-5950	
	Settings	

5. Select a scanner.

6. Launch a scanner driver from the application.

🌛 ScandAll PRO - Untitled

File Scan Edit View Page Mark Zoom Scan Ex Scan Settings... Ctrl+N -Batch Scan ÷ Batch Scan Settings... Ctrl+B Save Batch Scan Restore Batch Scan. Delete Saved Data Scanner Setting.. ct Scanner Cancel(P) For TWAIN Driver 🕹 TWAIN Driver (32) SIPC 512MB Browse... 0 1 2 3 4 5 6 7 8 9 10 11 Janlaulaulaulaulaulaulaulaulaulau Image Scanner: Fi-5950d Setting Files: 00 : Current Setting ▼ Config... <u>R</u>esolution Scan Type: 🔎 300 x 300 ADF (Front Side) • Paper Size: 300 🗐 dpi • Predefine Letter (8.5x11in) Enable <u>M</u>ulti Image Enable Software IPC Front Image Mode: 128 AE Black & White • Black/White: Threshold: 128 • Static Threshold 17 Scanning Area[inch] <u>C</u>ontrast 0.000 <u>I</u>op: 0.000 Left: 128 v <u>₩</u>idth: 8.500 Length: 11.000 Advance Scan Preview Close Res<u>e</u>t Option... <u>H</u>elp Ahout Data Size about: 1.1MB solution for scan roperties for Fujitsu fi-5950 on STI - 0000 Compression Online About Layout Image Processing Paper Handling Gamma Color Dropoul Main Image Mode Camera Dots peginch 200 • Front Image #1 Front Image #2 Back Image #1 Back Image #2 Djther None • Cropping Fixed •

Brightness Automatic Manual

▶ Auto

• 128

OK

Cancel

4

Contrast Manual •

Mode Image Processing Black and White 16-level Gray 256-level Gray 24-bit Color Auto Detect 16-level Gray Auto Detect 26-level Gray Auto Detect 26-level Gray

Default

For ISIS Driver

7. In the scanner driver's setup dialog box, configure the scan settings.

8. Perform a scan.

For information on how to scan using ScandAll PRO, refer to "How to Use ScandAll PRO".

9. Save the scanned images in a file.



2.11 Starting Scanning with Button

Pressing the [Scan] / [Send to] button can start an application previously linked. However, you need to set the application for [Scan] and [Send to] button referring to "2.14 Before Using [Scan] / [Send to] button" on page 60.

1. Load the documents on the hopper.

Refer to the section "2.6 Loading Documents on the Hopper" on page 17.

2. Adjust the stacker table to the document size.

Refer to "2.7 Setting up the Stacker" on page 22.

3. Press the [Scan] or [Send to] button.

When using the [Scan] button, press the button.

When using the [Send to] button, you can set from [Send to 1 to 9] of nine (9) kinds of settings.

Each pressing the [Function] button increases the number of Function Number display as $1 \rightarrow 2$ \rightarrow 3.... Set the number that links the application software you want to use for scanning and press the [Send to] button.



 \Rightarrow The application previously set for the number is started.



2.12 Feeding Documents Manually

Besides the "Automatic Feed Mode" which automatically scans the document set on the hopper, the scanner can also scan documents in the "Manual Feed Mode". In addition, the "Manual Feed Mode" is divided into 2 types:

<1> Single Feed: Only one sheet is manually fed and scanned. This is suitable for

- •thick paper, envelopes and folded paper and other types of documents that are difficult to scan using Automatic Feed Mode. (In case of folded paper, make the folding line as the leading edge).
- •reducing the load on the hopper.
- •making sure a certain page is scanned.

<2> Continuous Feed: Multiple sheets of document are manually fed one at a time and continuously scanned. This is suitable for

- •manual feed, even if multiple sheets are mistakenly fed, the scanner will scan one at a time.
- •selectively scanning a stack of document.
- •making sure certain pages are scanned.

The procedure is described below.

1. Lift up the Pick roller unit.

Lift up the small plate on the left side using your finger.



 If there is any document loaded on the Hopper, remove it before adjusting. Be careful not to get your fingers or anything caught in the mechanism when the hopper table moves up
when the hopper table moves up.

2. Place documents face-up at the center of the hopper table.

At this moment, do not stick the top edge of the document against the inner side of the hopper, instead set them a bit apart.

3. Start the application and display the scanner driver screen.

Set the scanning condition.

For the information about how to run the scanner driver, refer to "2.10 Scanning Documents" on page 30.

4. Start scanning.

When using the TWAIN driver, click the [Scan] button on the following screen.

🛓 TWAIN Driver (32)		
	Image Scanner: Fi-5950d	SIPC 512MB Browse
	Besolution	Scan Type:
4	300 × 300 ▲ doi	Paper Size:
		Letter (8.5x11in)
	Front	Enable <u>M</u> ulti Image Individual Setting
11 12 13 13 14	Image Mode:	Brightness:
16	Black/White: Static Threshold	Threshold:
Left: 0.000 Iop: 0.000 Width: 8.500 Lenath: 11.000	Hal <u>(</u> tone:	<u>Contrast</u> 128
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Ogtion	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

5. Insert the document until the top edge touches the rollers on the inside.

When more than one sheet is loaded, only the one on the top of the stack will be fed.



 \Rightarrow The document is picked up and ejected onto the stacker after scanning.



After a certain time period of inactivity or at pressing of [Send to] button, the scanner will

7. To deactivate "Manual Feed Mode" (Single Feed), return the Pick roller unit to its original position.

Repeat the procedure 5 until all the documents are scanned.

Flip down the small plate on the left using your finger.

6.



Continuous Feed

1. Open the hopper if it is closed.

Refer to section "2.2 Opening and Closing the Hopper" on page 10.

2. Press down the Hopper Height Button (\triangle) on the Operator Panel for more than 3 seconds.



⇒Hopper will move up to the manual feed position.

• Be careful not to get your fingers or anything caught in the mechanism when the hopper table moves up.

• To deactivate the "Manual Feed Mode" (Continuous Feed) in the middle of an operation, press down the Hopper Height Button (▽) on the Operator Panel for more than 3 seconds.

3. Place documents face-up at the center of the hopper table.

At this moment, do not stick the top edge of the document against the inner side of the hopper, instead set them a bit apart.

4. Start the application and display the scanner driver screen.

Set the scanning condition.

For the information about how to run the scanner driver, refer to "2.10 Scanning Documents" on page 30.

When using the TWAIN driver, click the [Scan] button on the following screen.

🕹 TWAIN Driver (32)		X
	Image Scanner: Fi-5950d Setting Files: 00 : Current S	SIPC 512MB Browse
	Besolution	Scan Type:
	300 dpi	Paper Size:
8 9 10	Enable Software IPC	Enable <u>Multi Image</u>
	Image Mode:	Brightness:
	Black/White:	Threshold:
Scanning Areal inch Jop: 0.000 Left: 0.000 Lop: 0.000 Width: 8.500 Length: 11.000	Hal <u>f</u> tone:	<u>Contrast:</u> 128
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About

6. Load the documents towards the back of the hopper.

When more than one sheet is loaded, only the one on the top of the stack will be fed.



 \Rightarrow The document is picked up and ejected onto the stacker after scanning.



In "Manual Feed Mode" (Continuous Feed), even if multiple sheets are mistakenly fed, the scanner will scan only one sheet at a time.

7. Repeat the procedure 6 until all the documents are scanned.

⇒After a certain time period of inactivity or at pressing of [send to] button, the scanner will recognize it as "no document" and stop scanning.



8. To deactivate the "Manual Feed Mode" (Continuous Feed), press down the Hopper Height Button (∇) on the Operator Panel for more than 3 seconds.

2.13 Configuring the Scan Settings

TWAIN Driver

The TWAIN driver is a software driver that conforms to the TWAIN standard. This driver can be used with an application that supports TWAIN to perform scanning.

Normally, the scanner driver is launched via an application, and then the scan settings are configured in the setup dialog box of the driver (some applications may not display the setup dialog box).



TWAIN Driver (32)		
0 1 2 3 4 5 6 7 8 9 10 11	Image Scanner: Fi-5950d	SIPC 512MB Browse
	Setting Files: 00 : Current 9	Setting 🗸 Config
	<u>R</u> esolution	Scan Type:
	200 x 300 -	ADF (Front Side)
5	300 哥 dpi	Paper Size:
		Letter (8.5x11in)
	Enable Software IPC	Enable <u>M</u> ulti Image
10	Front	Individual Setting
	Image Mode:	Brightness:
13 == 14 ==	Black & White	▲ 128
15	Bl <u>a</u> ck/White:	Threshold:
17 17	Static Threshold	• 128
Left: 0.000 Top: 0.000	Halftone:	Contrast:
2000 <u>100</u> 1000		
Scan Preview		
Close Res <u>e</u> t	Option	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

Main screen

You can perform settings for the TWAIN Driver on this window.

The following describes the main setting items.

• For details on each functions, refer to "TWAIN Driver Help" (appears by pressing [Help] or [F1] button).

Resolution

Specifies the resolution of scanning.

It can be specified by selecting a default value from the list or customizing (specifies any resolution in 1 dpi unit, within a range of 50 to 600 dpi).

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

Otherwise, you can change the details of the predefined settings on the [Resolution Setting] window, which appears when you click on the [...] button.

Scan Type

Specifies the feeding method, the side(s) to be scanned (Front Side, Back Side, Duplex) or details of Long page (Front Side, Duplex) details of Long page (Front Side, Duplex) *.

* Refers to documents larger than Double Letter $(11 \times 17 \text{ in.})/A3$.

Paper Size

Select the size of documents to be scanned from this list.

Windows for customizing the paper size will appear when you click on [...] besides 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.

Black & White	Documents are scanned in binary (black and white).
Halftone	Documents are scanned with halftone processing in black and white.
Gray scale	Documents are scanned in gradations from black to white. For this mode you can select 8 bit (256 gradations) or 4 bit (16 gradations).
Color	Documents are scanned in color. For this mode, you can select 24 bit Color, 256 bit Color or 8bit Color.
SEE (Selectable Edge Enhancement)	Documents with line drawings and photographs are scanned using halftone processing, and only the line drawings and text are empha- sized. This mode is most suitable for emphasizing only text of documents containing both photographs and text.

[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 "TWAIN Driver Help" window. The window also opens by pushing the [F1] key.

[About...] button

Opens an information window about the TWAIN Driver's version.

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

Option		
Rotation Job/Cache Imprinter(E	ndorser) Generic Startup Filter Compl	
Flip Side Rotation		OK
		Cancel
		Help
Botation		
Rotation Degree:	Hole punch removal:	
0.0 degree	Do not remove	
Automatic Size and Skew dete	ection :	
Disable	•	
Priority:	🔲 Split Image(V)	
opeed Ad	2 0:Rectangular document	
т т О	1:Document without tab	
□ Overscan	2 2.Document with tab	

[Rotation] tab

Select this tab when setting items such as flip side rotation, image rotation, hole punch removal, skew correction, size and length detection, black background, and overscan.

[Job/Cache] tab

Select this tab when setting cache mode, job controls, multifeed detection, blank page skipping, etc.

[Imprinter (Endorser)] tab

Select this tab when setting printing configuration for imprinter (sold separately). Only shows when an imprinter is installed.

[Generic] tab

Select this tab to change the unit displayed on the Setting Window for the TWAIN 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, White Level Follower, 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 "TWAIN Driver Help".

ISIS Driver

The ISIS driver is a software driver which conforms to the ISIS standard. This driver can be used with an application that supports ISIS to perform scanning.

Normally, the scanner driver is launched via an application, and then the scan settings are configured in the setup dialog box of the driver (some applications may not display the setup dialog box).



Ways to launch the scanner driver differ depending on the application. For more details, refer to the manual or the Help files of the application.

	Compression		Imprinter		About
1ain	Layout Im	age Processing	Paper Handling	Gamma	Color Dropout
Image Mod	le	[ots per inch:		
Camera:			200		~
Front	Image #1)ither:		
🗖 Front	lmage #2		None		~
🔲 Back	lmage #1		Cropping		
🔲 Back	Image #2		Cropping.		
			Fixed		
Mode:			Priority:		
IPC			Speed	Accu	iracy
Black and	l White		Y		1
16-level 0 256-level	irayscale Gravoalo				2
24-bit Col	or				
Auto Dete	ect 16-level Graysca	le la	Brightness		
Auto Dete	ect 24-bit Color	ale		128	*
			.	000	
	Calve IDC		1	255	
	Setup IPC		Contrast		
				50	~
					v
			1	100	

Settings for the ISIS driver are configured in the above dialog box.

For more details, refer to the ISIS Driver Help.

[Main] tab

Compression	Imprinter About
Main Layout Image Processir	ng Paper Handling Gamma Color Dropout
Image Mode	Dots per inch:
Camera:	200
✓ Front Image #1	Dither:
Front Image #2	None
Back Image #1	- Cropping:
Back Image #2	Fixed
	Priority:
Mode:	Speed Accuracy
IPC Black and White	
16-level Grayscale	0 2
256-level Grayscale 24-bit Color	
Auto Detect 16-level Grayscale	Brightness
Auto Detect 236-level drayscale Auto Detect 24-bit Color	128
	1 255
Setup IPC	1 200
octop in c	Contrast
	50 🌍
	100
	1 100

Camera

Selects the document's side (front or back) to be scanned.

The check-marked side(s) will be scanned.

By marking only the checkbox(es) of Front Image, you can scan the one side of the documents (simplex scan), and by marking the checkboxes of both Front and Back Images, you can scan the both sides of the documents (duplex scan).

Moreover, you can select color/gray scale scanning and black and white scanning (#1/#2) for both the Front and Back Images so that two different types of images are output at a scan. (Multi Image)

The settings you have made on this window are applied to the selected side(s) (Front Image #1, Front Image #2, Back Image #1, and/or Back Image #2).

.



If you select color or gray scale mode for a side (Front or Back) #1, you can select only black and white mode for the same side #2. In turn, if you select black and white mode for a side (Front or Back) #1, you can select either color or gray scale mode for the same side #2.

• •

Mode

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

Image Processing	Scans data in binary (black and white) using Image Processing Soft- ware Option. When this mode is selected, the [Setup IPC] button below becomes available. (Note that only when Image Processing Software Option is installed in the computer, it is displayed.)
Black and White	Scans data in binary (black and white). Distinguishes black from white according to the fixed threshold. This scanning mode is suitable for scanning line drawings and text documents.
16-level Gray	Scans data with 16 gradations from black to white. This mode uses 4 bits per pixel.
256-level Gray	Scans data with 256 gradations from black to white. This mode uses 8 bits per pixel.
24-bit Color	Scans data as full-color images using 24 bits per pixel. This mode is suitable for scanning color photographs. However, more memory space is needed compared to gray scale scanning.
Auto Detect 16-/256- level, Auto Detect 24-bit Color	- Distinguishes between color data and black and white data, and outputs documents as they are; that is, color data is output in color (or gray scale) mode and white and black data is output in black and white mode. Configure settings for color documents using Front/Back Image #1, and for black and white documents using Front/Back Image #2, under "Camera".

[Setup IPC] button

You can configure settings for scanning with Image Processing Software Option.



 For details on how to configure settings for Image Processing Software Option, refer to "Image Processing Software Option User's Guide". To display the "Image Processing Software Option User's Guide", select [Start] > [All Programs] > [Image Processing Software Option] > [User's Guide].

• • •

Dots per inch

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

Specifies the number of pixels (dots) per inch. Select a fixed resolution from the list or input a number from 50 to 600. The higher the resolution, the more memory is required.

Dither

Select the halftone pattern for halftone scanning. This setting is available when "Black and White" is selected in the "Mode".

Pattern 1	This setting is suitable for scanning dark photographs.
Pattern 2	This setting is suitable for scanning dark-colored documents containing
	both text and photographs.
Pattern 3	This setting is suitable for scanning light photographs.
Pattern 4	This setting is suitable for scanning light-colored documents containing both text and photographs
Error Diffusion	This function minimizes the differences of color levels.

Cropping

Select how to crop scanned documents to output.

Fixed	Outputs the document in the specified size.
Detect Length	Detects the rear end of the document to scan the whole length of the document. When shorter pages are included in the document, the output images of them are adjusted to the original size.
Automatic	Automatically detects the paper size of the document and outputs in the original size. In addition, document skews are automatically detected and corrected to output the image data.
Deskew	Corrects document skews after scanning to output correct image data.
Long page	Scans long documents and outputs the deskewed / cropped image data.

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 100 (high [sharp]). Increasing this value makes the contrast sharper.

[Layout] tab



Page Orientation

Specifies the page orientation (Portrait or Landscape).

Paper Size

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

[Scan Area...] button

Opens the [Scan Area] dialog box. You can specify the area to be scanned.

Scan Area	? 🛛
Page Size:	0, 1, 2, 3, 4, 5, 6, 7, 8
Letter - 8.5 x 11 in	0 Both
Page Layout	1
Portrait	[]
C Landscape	
	2
	1
	3 1
	-
Area	4
✓ Snap	
×: 0''	°
Y 0"	
Width: 01/2	
Height: 11"	
Units	8
	9 -
OK Cancel	<u>.</u>

[Image Processing] tab



Quick Set

You can select a preset pattern for image enhancement. By selecting the one from the list, you can quickly set the details of the image enhancement processing. Available patterns are as follows:

Normal documents (default)	This item is suitable for scanning the documents like the ones used in offices.
Advanced DTC	This option scans any kind of documents by binary processing to produce data with good scanning quality. Documents containing thin letters, characters with the colored background, and colored charts cannot be scanned sufficiently clearly by ordinary binary processing. By using this option, how- ever, you can achieve good scanning quality.
Background/Fore- ground Enhancement	This option makes image contours soft by disabling the Outline Extraction, and the whole image blurs.
NCR forms with back- ground removed	This option removes background of scanned images and smooths outline, giving an effect of anti-aliasing on the images.
Cleanup noisy docu- ments	This option removes noise on the data.
Magazines, Brochures, etc.	This option is suitable for scanning documents which have texts and photos (e.g. magazines, brochures).

Reverse Image Format

Converts colors from/to negative to/from positive.

2

Overscan

Scans the document allowing more margins than the ones of paper size specified at [Paper Size:]. Thus, the result of scanning is bigger than the specified paper size.

Image Emphasis

This option processes the outline of the scanned image as follows:

Low, Mid, High	Emphasizes the contour of images. You can select the degree of
	emphasis from low, mid, and high.
Smooth	Smooths jaggy images.

White Level Follow

Use this option when the basic color of documents is not white; for example, when scanning newspaper.

Auto	Automatically switches between "On" and "Off"; when the "Mode" is "Black and White", this option is "On", and when the "Mode" is "Color/Gray scale", it is "Off".
On	Scans the document, adjusting the white balance of its background. (Line drawing mode)
Off	Scans the document with a predetermined value for the white bal- ance.(Photograph mode)

Hole Punch Removal

When scanning punched documents that have punch holes on them, their images are output with punch holes removed. The background color is "black."

Fill with white	Punch hole marks are filled with white.
Background color	Punch hole marks are filled with the most used color around the punch holes.

When scanning a color document, select [Background color]. If you select [Fill with white], punch holes will be filled with white.
Compression		Imprinter	About		
Main	Layout	Image Processing	Paper Handling	Gamma	Color Dropout
Pre-nick:					
Operator	Panel Setting	~			
Backing:					
White		~			
- Multifee	d Detection		N 12 15		
Ena Dete	ble at based and		Multireed Recovery-		
	on Daseu on.		✓ Un		
	apei uveilap keiwi		Auto-cancel Timer-		
	aper Length			0	-
+	/- 20mm	~	Off	60	
	o not stop scapr	ing upon detection			
	e not stop soan	ing apon dotooton			

Pre-pick

With this option, you can enable or disable Pre-picking. Pre-picking is an operation that feeds documents into the ADF (to the scanning position) before starting actual scanning operation. Select "On" to shorten the required time for scanning.

Backing

With this option you can set the background color (Black/White).

Multi-feed Detection

Multi-feed is an error that occurs when two or more sheets are fed simultaneously. You can set conditions so that the scanner will stop its operation and display an error message when Multi-feed is detected.

Multi-feed can be detected based on the "Paper Overlapping" or "Paper Length".

Skew

With this option, you can set the scanner so that it will stop its operation and display error messages when any skewed document is detected.

Do not stop scanning upon detection

With this option, you can set the scanner so that it continues scanning even if any Multi-feed or skew is detected.

Multifeed Recovery

Scaning is not restarted for the set period (minutes) of time after a multifeed error. This period is specified here. If scanning is not started after the set minutes, the application is notified of the error by the driver. If Auto-cancel timer is set to 0, the application will never be notified of the error.

[Gamma] tab

perfies for Fujitsu fi-5950 on STI -	0000	
Compression	Imprinter	About
Main Layout Image Processi	ng Paper Handling	Gamma Color Dropout
Image Mode	Pattern:	
Camera:	Default	
Front Image #1	Normal	
Front Image #2	Sharp	
Back Image #1		
	Custom Properties	
	Giamma:	
Mode:	<	> 0.0
IPC Displayed by (b) a	Brightness:	
16-level Grayscale	<	> -2
256-level Grayscale	Contrast:	
Auto Detect 16-level Grayscale	<	> Auto
Auto Detect 256-level Grayscale Auto Detect 24-bit Color		
	<	> 0
C	Highlight	
Setup IPC	<	> 255
	Rese	et

Pattern

Specifies how to correct Gamma. Available correction patterns are: "Normal", "Soft", "Sharp". "Custom" is selectable when "Color" is selected on the Main tab.

Camera

Specifies side(s) to which you want to apply the settings made on this window.

Custom Properties

Can be specified when "Cutom" is selected in the "Pattern" list.

You can specify the numeric values of items such as "Gamma", "Brightness", "Contrast", "Shadow" and "Highlight".

[Color Dropout] tab

Red, Green, Blue (Light's three primary colors) or any color can be selected to drop out from the documents to be scanned. For example, if you specify "Red" when scanning black letters with red outlines, only the black part of the letters are scanned.

You can use this function when black and white or gray scale is selected.

Compression	Imprinter		About
Main Layout Image Processin	g Paper Handling	🗌 Gamma 🌔	Color Dropout
Image Mode Camera: Image #1 Back Image #1 Back Image #2	Enable Color Dropout Dropout Red Dropout Green Dropout Blue		
	Use Custom Color Dr.	opout	
Mode:	Custom Color Dropout		
IPC Black and White 16-level Grayscale 256-level Grayscale 24-bit Color Auto Detect 16-level Grayscale Auto Detect 256-level Grayscale Auto Detect 24-bit Color	Red: < Green: < Blue: <	Edit	175 175 175
Setup IPC	✓ Priority Black Sensitivity:		30

Enable Color Dropout

Color Dropout is enabled.

Dropout Red	An image in which red color dropout has occurred is output.
Dropout Green	An image in which green color dropout has occurred is output.
Dropout Blue	An image in which blue color dropout has occurred is output.
Use Custom Color Dropout	An image in which a selected color dropout has occurred is output.

Custom Color Dropout

Any color to drop out can be specified when "Use Custom Color Dropout" is selected.

[Edit...] button

Clicking this button displays the "Select Dropout Color" window and you can specify any color to drop out as checking Dropout Image.

Select Dropout color	X
Original image	Dropout Image
Color 1 Color 2 Color 3	1
C Dropout	
Red: 0 Sam	ple
Green: 0	
Blue: 0	Priority Black
Sensitivity:	
15	15 degrees
<u>F</u> ile	Apply Cancel

Original Image

The sample color is shown. By clicking colors in Original Image, you can select the color to drop out from the image.

Dropout Image

The image after color dropout is shown.

Dropout Color

Both the numeric values and the sample color of the specified color to drop out are shown.

You can change the numeric values by directly inputting them or using $\blacktriangle/ \blacktriangledown$.

Priority Black

Mark this checkbox when you want no color dropout for scanning letters. Marking this checkbox avoids dropout of colors with low saturation such as black, which is often used for letters.

Sensitivity

You can specify the degree of color dropout. **The range of sensitivity**: 15 - 180 degree (30 degree by default) The larger the degree, the broader the range of colors to drop out.

[File...] button

You can select an image file (*.bmp format) to display it in "Original Image".

[Apply] button

Changes made are applied and the "Select Dropout color" window is closed.

[Cancel] button

Changes are voided and the "Select Dropout color" window is closed.

[Compression] tab

You can configure compression settings for scanning images in color or gray scale on this tab.

Main Lavout Image Processing	g Paper Handling	Gamma	Color Dropout
Compression	Imprinter	1	About
PEG Quality:			
Extremely High Compression, Low Image Qualit	y		
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			
Externely cow compression, riigh image qualit,	y		
ample Ratio:			
YUV 4:4:4			
YUV 4:2:2			

JPEG Quality:

Specify the compression level and image quality.

Sample Ratio:

Specify the sample ratio by which images are compressed. The file size of images compressed by the ratio of YUV4:2:2 is smaller than that of images compressed by the ratio of YUV4:4:4.

[About] tab

You can check the version number of the ISIS driver as well as hardware information of the scanner connected to the personal computer.

Main	Layout	Image Processi	ng Paper Handling	Gamma	Color Dropout
	Compression		Imprinter		About
CEF		fi5950 Ve Fujitsu fi-1 Copyright QuickDriv	ersion 2.1. 5950 ≀© EMC Corporation ver Version		
)evice Ir	nformation:	#117380		^	
1222	ingenter d ander Court d				
MC2 an	nd ISIS are register	red trademarks and	QuickDriver is a trademark	. of EMC	
Corporati wners.	on. All other trade	marks used herein a	are the property of their resp	pective	
Copyright	t© 1998-2 EM	IC Corporation. All F	Rights Reserved.		

[Imprinter] tab

You can make settings for Pre-/Post-Imprinter Options (to be purchased separately). Unless Imprinter Option is installed, this tab will be unshown.

Main Layout	Image Processing		Paper Handling	Gamma	Color Dropout
Compression	n (In	nprinter		About
nprinter Mode:					
Print on the back of do	cument after scanning			*	
ormat Template:			Top Margin:		
		0	0.5 in		
Date			Units:		
Format:	Delimiter:		Inches	~	
MMDDYYYY	V None	•	Font:		
			Normal	*	
Counter			Rotation		
Initial Value:	0	٦	90 degrees	~	
Eadely Gebbs	0				
rield width.	0		H		
Number Control:	Increase by 1	<u> </u>			
xample:					

Do not print	Imprinter is not used.
Print before scanning	With Pre-Imprinter, printing is done on the front face of the document.
Print after scanning	With Post-Imprinter, printing is done on the rear face of the document.

Format Template:

Letters typed in this text box are printed on the document.

You can use the follow	ving characters.
Alphabet	A to Z, a to z
Numeric	0, 1 to 9
Symbol	! " \$ # % & ' () * + , / : ; < = > ? @ [\]^_ ' { } ~
Year/Month/Day	%Y
Time	%Т
Counter	%S (You can select 3-digit to 8-digit.
	You can be placed the counter at the first, middle or end of the string.)
Other	One byte space

Up to 43 characters can be typed in.



BASIC SCANNER OPERATIONS

Date

Specifies how to display the date.

Format:	You can specify how to display the date.
Delimiter:	You can select delimiters (grouping separators).

Counter

Specifies the rule of display.

Initial Value:	You can specify the initial vale.
Field Width:	You can specify the number of digits for the counter. (3 to 8 digits).
Number Control:	You can specify the number by which the counter is incriminated/decremented.

Top Margin:

Specifies the location where the printed string of characters starts.

Setting range:	0.5 to 10.5 in.(1.27 to 26.7cm)
Minimum unit:	0.1 in.(0.01cm)

Units:

Selects a unit for Top Margin values i(nch, cm, or pixel).

Font:

Selects the font to use for printing (Normal, Bold, or Narrow).

Rotation:

Specifies the orientation of strings of characters.

2.14 Before Using [Scan] / [Send to] button

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

- 1. Select [Control panel] from the [Start] menu.
- 2. Select [Property] from [Scanner and Cameras].



For Windows XP, when the control panel is displayed in "Category" mode, select [Printer and other hardware] and then click [Scanner and camera].

3. Display the "fi-5950" properties.

For Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008 and Windows 7, right-click the "fi-5950d" icon.

For Windows 2000, double-click the "fi-5950d" icon.

4. Select the [Event] tab.

5. Select the event to launch the application.

For Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008 and Windows 7, select event to be performed by the application from the [Select event] menu.

Poyood Propert	ies		?		
Diagnosis	Device Info	Device Set	About		
General	Events	Color Man	agement		
Signal Choose event of	Choose an event below, then select the action to take when that event occurs.				
Select an <u>e</u> vent:	Scan Button		~		
Actions	Send to 1				
O Start this pro	grai 🐉 Send to 2		~		
Prompt for will	bick Send to 3		~		
	non program to tarr				
◯ <u>I</u> ake no action					
O Save all pict	ures to this <u>f</u> older:				
D:\Documents and Settings\scanner\My Documen					
Create a subfolder using today's date					
Delete n	ictures from camera aft	er saving them			
L					
	ОК	Cancel	Annlu		

With this function, the next events can be selected.

Scan button (When clicking on [Scan] button) Send to 1-9 (When clicking the [Send to] button)

6. Select the application executed by the event.

For Windows XP, Windows Server 2003 and Windows Vista, select [Performing selected program] under [Performing] and then select the application to be processed.

7. Click OK.

2.15 Resuming from Power Saving Mode

Power saving mode saves the power consumption of the scanner while the power is turned on. When the scanner is left without operation for 15 minutes or more (factory initial setting), it automatically enters the power saving mode.

When the scanner entered the power saving state, the LCD indication of Operation panel becomes off and the green LED lamps for Power button and Paper Thickness keeps lighting.

If you want to resume the scanner from the power saving mode, take any of these actions below.

- •Set documents on the hopper.
- Press any button on the Operator panel (except the Power button*).
- * If you press the power button for two seconds or longer, the power is turned off.

•Execute any command from the scanner driver screen in the PC.



The waiting time for entering the power saving mode can be set in a range from 15 to 55 minutes in steps of 5 minutes. To set the power saving mode, refer to "8.2 Power saving setting" on page 187.

3 SCANNING VARIOUS TYPES OF DOCUMENTS

This chapter describes how to scan various types of documents.

This chapter explains operations using the screens of Windows XP. Depending on your OS, your PC's screen shots and the operation may be different from this manual. Be aware that when the TWAIN driver or the ISIS driver is updated, the screens and operations noted in this chapter may change. In that case, refer to the User's Guide provided with the update.

3.1 Double Sided Scanning64		
3.2 Scanning Documents Longer than A365		
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3.5 Excluding a Color from the image (drop out color)76		
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3.9 Setting Auto Correction for Document Page Orientations		
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3.11 Color/monochrome Auto Detection		
3.12 Not detecting Multifeed for fixed format95		

3.1 Double Sided Scanning

When you want both sides of a document to be scanned at the same time, set the feeding option to "Duplex".

Below is the procedure with TWAIN driver.

1. Set the document on the hopper.

Refer to section "2.6 Loading Documents on the Hopper" on page 17.

2. Adjust stacker in accordance with document size.

Refer to section "2.7 Setting up the Stacker" on page 22.

3. Start TWAIN driver with the application used.

Refer to section "2.10 Scanning Documents" on page 30.

4. Set the [Scan Type:] to "ADF (Duplex)".

🛓 TWAIN Driver (32)		X
	Image Scanner: Fi-5950d	SIPC 512MB Browse
?=	Setting Files: 00 : Current Se	tting Config
	Resolution .	Scan Type:
3	600 x 600 🔹	ADF (Duplex)
5	600 🛒 dpi	ADF (Front Side)
7	Predefi <u>n</u> e	ADF (Duplex)
9	Enable Software IPC	Long page (Front Side)
	Image Mode:	Long page (Duplex)
13	Black & White	ADF (Back Side)
15	⊑≕⊒ Bl <u>a</u> ck/White:	Threshol <u>d</u> :
	Static Threshold	• 128
Left: 0.000 <u>I</u> op: 0.000	Hal <u>f</u> tone:	Contrast:
<u>₩</u> idth: 8.500 Length: 11.000]	
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About
Select an scanning method.		Data Size about: 4.2MB

5. Set resolution and document size and so on, and then click [Scan] button.

3.2 Scanning Documents Longer than A3

When scanning documents longer than A3, set the feeding option to "Long Page". This scanner can scan documents up to 3,048mm (120inch) long.

Below is the procedure with TWAIN driver.

1. Set the document on the hopper.

Refer to section "2.6 Loading Documents on the Hopper" on page 17.

.

2. Adjust stacker in accordance with document size.

Refer to section "2.7 Setting up the Stacker" on page 22.

When scanning long pages (longer than A3), the document may be longer than the stacker extension even if it's pulled to the outermost position. In case like this, place a thick paper about the size of A4 on the stopper and make a slope as depicted below.



3. Start TWAIN driver with the application used.

Refer to section "2.10 Scanning Documents" on page 30.

4. Set [Scan Type:] to "Long Page (Front Side)" or "Long Page (Duplex)".

Choose "Long Page (Front Side)" when scanning one side; "Long Page (Duplex)", both sides.

💁 TWAIN Driver (32)		
0 1 2 3 4 5 6 7 8 9 10 11 Janlanlanlanlanlanlanlanlanlanlanlan	Image Scanner: Fi-5950d	SIPC 512MB Browse
?=	Setting Files: 00 : Current Setting	▼ Config
	Resolution Scan	Туре:
3	🔎 600 × 600 🔹 🍱) ADF (Duplex)
5	600 🚽 dpi	ADF (Front Side)
		ADF (Duplex)
9	Enable Software IPC Duplex	Long page (Front Side)
	Image Mode:	Long page (Duplex)
13 14	Black & White	ADF (Back Side)
15	Bl <u>a</u> ck/White:	Threshol <u>d</u> :
17 Scamping Areal inch 1	Static Threshold	128
Left: 0.000 <u>T</u> op: 0.000	Halftone:	Contrast:
<u>W</u> idth: 8.500 Length: 11.000		
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About
Select an scanning method.		Data Size about: 4.2MB

 \Rightarrow The "Set the document size" screen will appear.

5. Click [OK] after setting the document

When excessively long length is specified, the scanning speed may be slow. So, it is recommended to specify the closest length to the actual document.

Long Page Paper Size Setting 🛛 🛛 🔀		
Width :	12.000 inch	
Length: 📕 🔄	× 17.000 inch	
ОК	Cancel Help	

6. Set resolution and document size and so on, and then click [Scan] button.

3.3 Scanning Documents with different widths

When you scan a batch of documents with different widths, follow the instruction below.

1. Align the leading edge of the documents.







This section describes the procedure to align the document alongside their center line. For the procedure to align the document with its left (or right) edge, refer to "(2)Setting the document by either Side Guide of the hopper." on page 19.

2. Load the documents on the center of the hopper.





Load the documents so that each sheet can be reached by the pick roller. (If the documents are not placed below the Pick roller, the document feeding will not be possible.)

.



3. Align the side guides to the width of the widest document.



4. Align the stacker's position.

Refer to "2.7 Setting up the Stacker" on page 22 for details.

5. Start up the scanner driver.

Refer to "2.10 Scanning Documents" on page 30 for further information about how to start up the scanner driver.

6. Perform the settings for the scanning on the scanner driver's configuration window.

For the TWAIN driver

Paper size: (Main display) Set the width of the widest, and the length of the longest document. Automatic size and skew detection: ([Option] Screen \rightarrow [Rotation] tab) Select Automatic Page Size Detection.

For the ISIS driver

Cropping: (on the [Main] tab) Select [Automatic].

7. Scan

 \Rightarrow The images of each document will be generated according to their size and displayed on the screen.



scannable mixed size documents.

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3.4 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 DVD-ROM.

There are two ways to create PDF files:

(1) By ScandAll PRO(page 71)

Recommended when you want to create PDF files according to your business needs, by scanning in color or grayscale mode.

Reduce the data size of the PDF file

Easily create PDF files without any special operations

(2) By Adobe Acrobat (page 71)

Recommended when you want to create PDF files quickly, by scanning in binary mode (black & white).

Quickly create PDF data in the same resolution as the original image

Create PDF data in an arbitrary size by changing the compression rate

Although the data size is usually very large for color documents, you can drastically reduce the data size by using Acrobat Distiller before saving the image.

For more details, refer to "How to reduce the file size by Acrobat Distiller" on page 75.



- For [Resolution], [Scan Type], and [Image Mode], Adobe Acrobat's settings are given priority over the scanner driver settings, thus the scanned image may not be displayed as previously configured in the scanner driver.
- The following functions are not available:
 - [256 Color] and [8 Color] modes
 - [Rotation Degree] specified when [End of Page Detection] is selected
 - Long Page Scanning
 - Automatic Page Size Detection
- When you use Adobe Acrobat to scan and convert a document into PDF, the output image may not turn out as intended:
 - When the [Edge shadow removal] option of Acrobat and [Digital Endorser] or [Black Background] of TWAIN driver are enabled, character strings embedded in the image or the background may be lost.

Solution 1:

- 1. In Acrobat, select [File] → [Create PDF] → [From Scanner] → [Custom Scan].
- 2. In the [Custom Scan] dialog box, click the [Options] button next to the [Small Size/ High Quality] slide bar under [Document].
- 3. In the [Optimization Options] dialog box, either set [Edge shadow removal] to [Off], or set [Color/Grayscale] and [Monochrome] under [Compression] to a setting other than [Adaptive].

Solution 2:

Adjust the scanning density of the TWAIN driver.

Solution: To scan a Double-Letter (11 × 17 in.) or A3 sized document, do not enable [Overscan] in the TWAIN driver.

Acrobat, the output image may not be satisfactory.

when [Overscan] is enabled in the TWAIN driver.

- For more details on using Acrobat and other information, refer to the Adobe Acrobat Help ("Create a PDF file from a scanned document") or http://www.adobe.com/support/acrobat/ from the Adobe website.

- When you scan in a resolution lower than Adobe's recommended resolution with [Color/Grayscale] and/or [Monochrome] under [Compression] set to [Adaptive] in

Under [Compression], set [Color/Grayscale] and/or [Monochrome] to a setting other

 Since scanning of documents longer than A3 or Double-Letter (11 × 17 in.) size is not supported in Acrobat, you may not be able to perform scanning successfully

By ScandAll PRO

Solution:

than [Adaptive].

For information on how to create PDF files by ScandAll PRO, refer to "How to Use ScandAll PRO".

By Adobe Acrobat

Following shows the procedure for saving scanned images in PDF format.

1. Load the documents on the hopper.

For information on how to load documents, refer to "2.6 Loading Documents on the Hopper" on page 17.

2. Start up Adobe Acrobat.

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

3. From the [File] menu, select [Create PDF] - [From Scanner] - [Custom Scan].

📥 Adobe Acrobat	
File Edit View Document Comments	Forms Tools Advanced Window Help
Open Ctrl+O	yllaborate 🔻 🔒 Secure 👻 🥒 Sign 🔹 📑 Forms 🔹 쯝 Comment 👻
Create PDF Portfolio	
Modify PDF Portfolio	
Create PDE	From File Ctrl+N
Combine	From Scanner Black & White Document
🔊 Collaborate	From Web Page Shift+Ctrl+O Grayscale Document
	From <u>Clipboard</u> <u>Color Document</u>
Source Curro	From Blank Page
Save as Cortified Decument	Assemble PDF Portfolio Custom Scan
Export	Merge Files into a Single PDF

⇒Custom Scan] dialog box appears.

4. Select "FUJITSU Fi-5950d" at [Scanner] .

	Custom Scan
	Input
	Scanner: FUJITSU Fi-5950 d Options
	Sides: Front Sides
l	
ATTENTION	 If your document is scanned by the default settings, the output image may not be satisfactory. It is recommended to change the settings as follows: 1. Clear the [Make Searchable (Run OCR)] check box. 2. Click the [Options] button for [Small Size / High Quality] under [Document].
	 ⇒ The [Optimization Options] dialog box appears. 3. Select [Custom Settings] and configure the following settings: Color/Grayscale: none Monochrome: JBIG2 or CCITT Group 4 Background removal: Off Edge shadow removal: Off

5. Click the [Options] button.

Custom Scan			×
Input			
Scanner:	FUJITSU Fi-5950 d	Options)
Sides:	Front Sides	~	
Color Mandar			

 \Rightarrow The [Scanner Options] dialog box appears.

6. Select [Show Scanner's Native Interface] for [User Interface], and then click the [OK] button.

Scanner Options	X
Data Transfer Method:	Native Mode
User Interface:	Show Scanner's Native Interface 🔽
🔲 Invert Black and Whit	Show Scanner's Native Interface
Defaults	OK Cancel

⇒The [Scanner Options] dialog box closes and it returns to The [Custom Scan] dialog box.

7. Click the [Scan] button.

Custom Scan	X			
~Input				
Scanner:	FUJITSU Fi-5950 d V Options			
Sides:	Front Sides			
Color Mode:				
Resolution:	 ✓			
Paper Size:				
	Width: Height:			
	Promot for scapping more pages			
New PDF	Document			
Multi				
O Append to	o existing file or portfolio			
Select:	Browse			
Document —				
Small Size				
✓ Make Searchable (Run OCR) Options				
Make PDF	/A compliant Add Metadata			
Help	Defaults Scan Cancel			

 \Rightarrow The [TWAIN Driver (32)] dialog box appears.

8. Configure settings such as [Resolution] and [Paper Size], and then click the [Scan] button.

🖢 TWAIN Driver (32)		×
0 1 2 3 4 5 6 7 8 9 10 11	Image Scanner: Fi-5950d	SIPC 512MB Browse
!⊒	Setting Files: 00 : Current S	etting Config
	<u>R</u> esolution	Scan Type:
3	200 x 300 🗸	ADF (Front Side)
	300 🚔 dpi	Paper Size:
	Predefine	Letter (8.5x11in)
	Enable Software IPC	🔲 Enable <u>M</u> ulti Image
10	Front	Individual Setting
12	Image Mode:	Brightness:
13	Black & White	✓ 128
	Bl <u>a</u> ck/White:	Threshold:
17	Static Threshold	■ 128
Left: 0.000 <u>I</u> op: 0.000	Hal <u>í</u> tone:	Contrast:
Width: 8.500 Length: 11.000	J	
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Ogtion	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

 \Rightarrow The scanned image is displayed.



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

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

• How to reduce the file size by Acrobat Distiller

Depending on the scan setting, the file size may be greatly increased.

To reduce the data size, try saving the scanned image by the following method (note that this takes longer than usual to save):

- 1. From the [File] menu, select [Print].
- 2. In the [Print] dialog box, select [Adobe PDF] for [Name].

Print	X
Printer	
Name: Adobe PDF	Properties
Status: Ready	Comments and Forms:
Type: Adobe PDF Converter	Document and Markups
Print Range	Preview: Composite
O Current view	×
O Current page	
OPages 1-3	
Subset: All pages in range	
Reverse pages	
Page Handling	
Copies: 1 Collate	1 H
Page Scaling: Shrink to Printable Area	
✓ Auto-Rotate and Center	
Choose paper source by PDE page size	
Luse custom paper size when needed	
Print to file	Units: Inches Zoom : 94%
	1/1
Printing Tips Advanced Summarize Comments	OK Cancel

3. Click the [Properties] button.

⇒[Adobe PDF Document Properties] dialog box is displayed.

- 4. Click the [Adobe PDF Settings] tab.
- 5. Select a job option in the [Adobe PDF Settings] tab.

For example, select [Smallest File Size].

- 6. Click the [OK] button.
- 7. In the [Print] dialog box, click the [OK] button.
 ⇒[Save PDF File As] dialog box is displayed.
- 8. Type in a file name and click the [Save] button to save.

3.5 Excluding a Color from the image (drop out color)

One of the primary colors: red, green ,blue or any other color 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.(Dropout color will only work when scanning in monochrome or grayscale mode).



Example: the result of "dropping out" green.

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

The following shows the procedure for changing the settings in this dialog box.

1. Start TWAIN Driver from your scanning application.

Refer to "2.10 Scanning Documents" on page 30.

2. Click [Advance...] button in the [TWAIN Driver] dialog box.

🖫 TWAIN Driver (32)						
	Image Scanner: Fi-5950d	SIPC 512MB Browse				
!⊒	Setting Files: 00 : Current S	etting 💽 Config				
	<u>R</u> esolution	Scan Type:				
3	2 300 x 300 🗸	ADF (Front Side)				
5	300 <u>–</u> dpi	Paper Size:				
	Predefine	Letter (8.5x11in)				
	Enable Software IPC	🔲 Enable <u>M</u> ulti Image				
	Front	Individual Setting				
12	Image Mode:	Brightness:				
13	Black & White	· 128				
15	Black/White:	Threshol <u>d</u> :				
17 Scamping Areal inch 1	Static Threshold	■ 128				
Left: 0.000 <u>T</u> op: 0.000	Halftone:	Contrast:				
Width: 8.500 Length: 11.000	J					
Scan Preview		Advance				
Close Res <u>e</u> t	Option	Help About				
Select the resolution for scanning.		Data Size about: 1.1MB				

 \Rightarrow The [Advance] dialog box appears.

3. 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.

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

Advance (Front)
Image Mode: Black & White
Gray Image Filter
Gamma
Gamma Pattern: Normal
Custom:
More
White Level Follower: Auto
Dropout Color:
☐ <u>B</u> everse
Default Cancel Help

If you wish to drop out a customed color, please select [custom pattern 1-3]. When selecting [custom pattern 1-3], the following screen will be displayed.

Select Dropout color	X
Original image	Dropout Image
Color 1 Color 2 Color 3 Image: Color 2 Dropout Image: Color 3 Bed: 0 Image: Color 3 Image: Color 3 Green: 0 Image: Color 3 Image: Color 3 Blue: 0 Image: Color 3 Image: Color 3 Sensitivity: Image: Color 3 Image: Color 3 15 Image: Color 3 Image: Color 3	ple priority Black
<u> </u>	<u>Apply</u>

Original Image

Color samples are displayed. Click on the color you wish to exclude from the image. This will set the dropout color.

Dropout Image

The image as it will be generated after the dropout is displayed.

Dropout color

The selected dropout color will be shown as numeric value and as color sample.

You can enter a numeric value directly or use the $[\blacktriangle]/[\blacktriangledown]$ buttons to change the dropout color.

Priority Black

If you do not wish to drop out text from the image, please mark "Priority Black". Colors of low saturation (like black), that are used normally for texts will not be dropped out by this function.

Sensitivity:

The sensitivity for the detection of the selected color to be dropped can be adjusted.

Setting range: 15 - 180 degree (default setting: 15 degrees)

The bigger the value for the sensitivity is set, the color range (tones) of the selected dropout color becomes wider (i. e. the tolerance for the color detection gets bigger).

[File...] button

An arbitrary image file (*.bmp format) can be displayed in [Original Image].

[Apply] button

The settings made in this screen will be applied and the window is closed.

[Cancel] button

The settings made in this screen will be aborted and the window is closed.

4. Click [OK] button.

[TWAIN Driver] dialog box will be redisplayed. Then, scan the documents using this dialog box.

3.6 Skipping blank Pages

If enabled, the scanner will automatically detect blank pages of the documents and remove them from the scanned image. For example, when double sided and single sided pages are scanned together, the blank side of the single sided pages will be skipped during scanning. Change settings in the [TWAIN Driver] dialog box to enable skipping blank pages at scanning documents.

1. Start TWAIN Driver from your scanning application.

Refer to "2.10 Scanning Documents" on page 30.

2. Click the [Option...] button in the [TWAIN Driver] dialog box.

💁 TWAIN Driver (32)		
0 1 2 3 4 5 6 7 8 9 10 11	Image Scanner: Fi-5950d	SIPC 512MB Browse
	Setting Files: 00 : Current Setting	ng Config
	Resolution Sc	an Type:
3	🦉 300 x 300 🔹 🛓	ADF (Front Side)
5	300 🗐 dpi Pa	aper Size:
	Predefi <u>n</u> e	LT Letter (8.5x11in)
	Enable Software IPC	🧮 Enable <u>M</u> ulti Image
	Front	Individual Setting
12	Image Mode:	Brightness:
13 <u></u> 14 <u></u>	Black & White	
16 16	Black/White:	Threshold:
17 Scapping Areal inch 1	Static Threshold	
Left: 0.000 <u>I</u> op: 0.000	Hal <u>f</u> tone:	Contrast:
Width: 8.500 Length: 11.000]	
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Ogtion	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

 \Rightarrow The [Option] dialog box appears.

3. Click the [Job/Cache] tab.

4. Check the [Blank Page Skip] box.

Option		X
Rotation Job/Cache	rinter(Endorser) Generic Startup Filter Compu	
Caching		OK
- Cache Mode:	Use Both Memory	Cancel
Memory Size:	10 - MB	Help
ADF Option		
Batch Detection:	None	
Multifeed Detection:	None	
Pre-Pick:	Enable	
	Check Over-skew	
	Paper Protection	
Blank Page Skip		
🔽 Blank Page Skip		
Black Dots Ratio:		
	~ <u> </u>	
White Dots Ratio:	_	
	- %	

When the check box is marked, "Cache Mode" will change to "Use both memory".

5. Using the slider control under [Blank Page Skip], specify the Blank Page Skip degree.

<In Binary/Halftone mode>

Black Dots Ratio:	 %	
White Dots Ratio:	 %	
(

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 range is OFF(- -) and from 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>

<u>S</u> ens	itiviț	y:	-		
- Y				,	
Lo	w			Higl	h

The [TWAIN Driver] dialog box will be redisplayed. Then, perform the scanning operation on the dialog box.

Use the slider bar to set the skip condition in five stages from 1 to 5. The bigger the value, the more likely a page will be detected as blank.

6. Click [OK] when done.

The [TWAIN Driver] dialog box will return. continue from there.

3.7 Detecting Multifeeds

"Multifeed" 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 or ring the buzzer when the scanner detects a multifeed.

Multifeed Detection can be set either through the scanner driver dialog box or through "Software Operation Panel". Refer to "8.4 Multifeed Detection" on page 190 for details on set up multifeed detection through "Software Operation Panel".

The following shows the procedure for changing the settings in the [TWAIN Driver] dialog box.

1. Start TWAIN Driver from your scanning application.

Refer to "2.10 Scanning Documents" on page 30.

2. Click the [Option...] button in the [TWAIN Driver] dialog box.

🎍 TWAIN Driver (32)		X
0 1 2 3 4 5 6 7 8 9 10 11 	Image Scanner: Fi-5950d	SIPC 512MB Browse
	Setting Files: 00 : Current 9	Setting Uonhg
	200 x 300 -	ADF (Front Side)
	300 × dpi	Paper Size:
7	Predefine	LT Letter (8.5x11in)
9	Front	Enable <u>M</u> ulti Image
11	 Image Mode:	Brightness:
13	Black & White	✓ 128
15 16	Black/White:	Threshol <u>d</u> :
Scanning Area[inch]	Haltone:	<u>C</u> ontrast:
Left: 0.000 <u>1</u> op: 0.000 Width: 8.500 Length: 11.000		· [128
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

 \Rightarrow The [Option] dialog box appears.

3. Click the [Job/Cache] tab.

- orinter(Endorser) | Generic | Startup | Filter | Comp ŌK Cancel Help
- 4. Select the detection conditions from [Multifeed Detection] under [ADF **Option**].

•

None

None

None Enable

10 - MI

Check Over-skew Paper Protectio

You can choose the following.

Rotation Job/Cache

Cache Mode

Batch Detection Multifeed Detection

Caching

ADF Option

Pre-Pick

Blank Page Skin

🔲 Blank Page Skip

.....

rou can choose the ro	nowing.
None	Multifeed detection is not performed.
Check overlapping	 The scanner monitors for the overlapping of documents. The scanner detects a multifeed by differences in ultrasonic propagation. When this method is slected, two more options are available specified by other sections. Multifeed detection areas can be narrowed separately for left/middle/right Ultrasonic sensors to avoid unintensional multifeed detection of sticked photogragh or something on the document. To specify this, go to Step 4 in Section "8.4 Multifeed Detection" on page 190.
	• If photogragh or something is sticked on the document and its size and/or position are same, you can easily let the scanner memorize its size and/or position just scanning those document. To use this function, go to Section "8.10 Intelligent Multifeed Function" on page 202 or Section "3.12 Not detecting Multifeed for fixed format" on page 95.
Check length	The scanner monitors the length of documents. It detects a multifeed by differ- ences in the document length when two or more document sheets are fed over- lapping.
Check overlapping and length Hardware settings	The scanner monitors both document overlapping and length to detect multifeeds. The scanner will detect multifeeds according the settings configured on the Software Operator Panel. Refer to "8.4 Multifeed Detection" on page 190.

Furthermore, refer to "7.5 Multifeed Detection Conditions" on page 164 for detailed information about the document for multifeed detection.

5. Click the [OK] button.

The display returns to the [TWAIN Driver] dialog box. Then, perform the scanning operation on the dialog box.

The scanner will stop scanning if a multifeed is detected. When this happens, press the [Send to] button on the Operator panel to eject the multifeed document.

3.8 Correcting skewed Documents

You can set the scanner to automatically detect and correct skewed documents that are fed into the ADF. The configuration is done through the scanner driver.

The following shows the procedure for changing the setting from the [TWAIN Driver] dialog box.

1. Start TWAIN Driver from your scanning application.

Refer to "2.10 Scanning Documents" on page 30.

2.	Click the	[Option]	button in the	[TWAIN Dr	iver] dialog	box.

🏝 TWAIN Driver (32)		
0 1 2 3 4 5 6 7 8 9 10 11	Image Scanner: Fi-5950d	SIPC 512MB Browse
•⊒	Setting Files: 00 : Current S	Getting Config
	Resolution	Scan Type:
3	200 x 300 🗸	ADF (Front Side)
5	300 🚊 dpi	Paper Size:
	Predefine	Letter (8.5x11in)
9	Enable Software IPC	🔲 Enable <u>M</u> ulti Image
	Front	Individual Setting
12	Image Mode:	Brightness:
13	Black & White	
16	Bl <u>a</u> ck/White:	Threshold:
17	Static Threshold	■ 128
Left: 0.000 <u>T</u> op: 0.000	Halftone:	Contrast:
Width: 8.500 Length: 11.000	J	
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Ogtion	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

 \Rightarrow The dialog box appears.

3. Click the [Rotation] tab.

Option	
Rotation ob/Cache Imprinter(Endorser) Generic Startup Filter Compi	
Flip Side Rotation	
Book Fantold	Cancel Help
Rotation	
Rotation Degree: Hole punch removal:	
0.0 degree Do not remove	
Automatic Size and Skew detection :	
Automatic Page Size Detection 💌	
Priority: Split Image(V)	
Speed Accuracy 0:Rectangular document 1:Document without tab	
0 2 2:Document with tab	
🗖 Overscan	

4. Select the [Automatic Page Size Detection] from the [Automatic Size and Skew Detection] menu.

5. Click the [OK] button.

The display returns to the scanning operation [TWAIN Driver] dialog box.



3.9 Setting Auto Correction for Document Page Orientations

You can direct the scanner to automatically correct a batch of documents with a mixture of page orientations.



The following shows the procedure for changing the setting from the [TWAIN Driver] dialog box.

1. Start TWAIN Driver from your scanning application.

Refer to "2.10 Scanning Documents" on page 30.

2. Click the [Option...] button in the [TWAIN Driver] dialog box.

🏝 TWAIN Driver (32)		
0 1 2 3 4 5 6 7 8 9 10 11 Jackanbarkanbarkanbarkanbarkanbarkan	Image Scanner: Fi-5950d	SIPC 512MB Browse
?=	Setting Files: 00 : Current Se	tting Config
	<u>R</u> esolution	Scan Type:
3	2 300 x 300 🔹	ADF (Front Side)
6	300 🖉 dpi	Paper Size:
	Predefi <u>n</u> e	Letter (8.5x11in)
	Enable Software IPC	🔲 Enable <u>M</u> ulti Image
10	Front	Individual Setting
12	Image Mode:	Brightness:
	Black & White	✓ 128
	Black/White:	Threshold:
17	Static Threshold	
Left: 0.000 <u>T</u> op: 0.000	Halftone:	Contrast.
<u>₩</u> idth: 8.500 Length: 11.000		
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

 \Rightarrow The dialog box appears.

3. Select the [Rotation] tab, and then select [Automatic] under [Rotation Degree].

p Side Rotation		Ca
A · Book	A C Eanfold	Н
otation Rotation Degree:	Hole punch removal:	
Automatic	Do not remove	
0.0 degree 90.0 degree -90.0 degree		
180.0 degree Automatic	厂 Split Image(⊻)	
	0.Rectangular document 1:Document without tab	
_	2 Ziplocument with tab	



• This function determines a document page orientation based on the characters printed on it. So it may not work properly for the following kinds of documents:

- -Documents with a resolution for scanning not between: 300 dpi and 600 dpi (in Black & White mode) or
 - 200 dpi and 600 dpi (in Color or Grayscale mode)
- -Documents with many extremely-large/small characters
- -Documents on which the pitches of lines or characters are extremely narrow, or characters are overlapped
- -Documents with many photographs or figures and only a few characters
- Documents on which characters are printed in various directions such as drawings
- -Documents written only in capital characters
- -Handwritten documents
- -Skewed documents
- -Documents written in a non-supported language. The supported languages are: Japanese, English, German, French, Spanish, Italian, Korean, Traditional Chinese, Simplified Chinese, Russian, and Portuguese
- -Documents with uneven colors, design and/or patterns in background
- -Documents with intricate design
- -Documents with a lot of noise

- To judge text in documents, use a language that is set in Windows's Regional and Language Options.
- The image orientation may not be corrected properly depending on the scanner driver setting at scanning (e.g. dithering).
- If you cannot correct the image orientation properly, use the Edge Emphasis function of the drivers to correct it.
- •Shadows may remain on the edge of the scanned image.
- [Automatic] in [Rotation Degree] is available only when ScandAll PRO is installed.

4. Click the [OK] button.

The display returns to the scanning operation [TWAIN Driver] dialog box
3.10 Multi Image Output

It is possible to get an output both in Color/Grey scale and binary black and white. This function may not work properly depending on the application software you use.



Example: Color document scanned with Multi Image.

The Multi Image setting can be done on the Scanner Driver.

The following operation uses the TWAIN driver.

1. Start TWAIN Driver from your scanning application. Refer to "2.10 Scanning Documents" on page 30.

2. Please check the [Enable Multi Image] checkbox in the [TWAIN Driver] window.

* When [Long Page..] is specified at [Scan Type:], you can not check this checkbox.

🎍 TWAIN Driver (32)		×
	Image Scanner: Fi-5950d <u>S</u> etting Files: 00 : Current Sett	SIPC 512MB Browse
	Besolution S	ican Type:
	<u>300</u> ≓ dpi F Fredefi <u>n</u> e	Paper Size:
	Front Front Front	Individual Setting
12 13 14	Image Mode:	Brightness:
	Bl <u>a</u> ck/White: Static Threshold	Threshold:
Left: 0.000 I op: 0.000 Width: 8.500 Length: 11.000	Halftone:	Contrast:
Scan Preview		Ad <u>v</u> ance
Close Res <u>e</u> t	Option	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

Main screen

 \Rightarrow The [Multi image output] dialog box will be displayed.



3. Select [Multi image output] under "Output mode".



4. Set the order of the output in "Order (for Multi image output)".



Primary: Color/Grayscale Secondary: Binary

The output order will be: [Color or Grey scale images] → [Binary monochrome images] Primary: Binary Secundary: Color/Grayscale

The output order will be: [Binary monochrome images] → [Color or Grey scale images]

- 5. Select under "Select Current face" the side of your choice and perform then for each scan settings on the main configuration screen.
 - Select Current Image Setting Front: Primary Front: Secondary Back: Primary Back: Secondary
- 6. Click the [Scan] button to scan the document.

🏝 TWAIN Driver (32)	
	Image Scanner: Fi-5950d SIPC 512MB Browse Setting Files: 00 : Current Setting Config Besolution Scan Type: 300 x 300 Image ADF (Front Side)
5 6 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	300 dpi Paper Sige: Predefine Image: Constrain the state of the state o
10 IIII 11 IIII 12 IIIIII 13 IIIIIII 14 IIIII 14 IIIII	Image Mode: Black & White
10 16 17 Scanning Area[inch]	Black/White: Threshold: 128
Left: 0.000 Iop: 0.000 Width: 8.500 Length: 11.000	
Close Res <u>e</u> t	Adgance Option <u>H</u> elp About
Select the resolution for scanning.	Data Size about: 1.1MB



SCANNING VARIOUS TYPES OF DOCUMENTS

3.10 Multi Image Output

3.11 Color/monochrome Auto Detection

The scanner detects whether the scanned document is color or binary monochrome. According to this detection, the images will be output in color (or grey scale) for colored documents, ide binary black and white for monochrome documents.

*Depending on the application, this function may not operate properly.

The settings for Multi Image can be done on the Scanner Driver.

The following operation uses the TWAIN driver.

1. Start up TWAIN driver from the application you are using Refer to "2.10 Scanning Documents" on page 30.

2. Please check the [Enable Multi Image] checkbox in the [TWAIN Driver] window.

* When [Long Page..] is specified at [Scan Type:], you can not check this checkbox.

🛓 TWAIN Driver (32)		X
	Image Scanner: Fi-5950d	SIPC 512MB Browse
	Setting Files: 00 : Current Set	tting 💽 Config
	<u>R</u> esolution	Scan Type:
3	200 x 300 🗸	ADF (Front Side)
5	300 🗐 dpi 🗜	Paper Size:
		Letter (8.5x11in)
	Enable Software IPC	Enable <u>M</u> ulti Image
	Front	Individual Setting
12	Image Mode:	Brightness:
	A Black & White	- <u> 128</u>
15	Black/White:	Threshol <u>d</u> :
16	Static Threshold	• <u> </u>
Scanning Area[inch]	Hal <u>f</u> tone:	<u>C</u> ontrast:
Lighther 9.500 Longth: 11.000		
		Advance
Scan Preview		
Close Res <u>e</u> t	Option	Help About
Select the resolution for scanning.		Data Size about: 1.1MB

Main screen

 \Rightarrow The [Multi Image output] dialog box will be displayed.



3. Under [Output Mode Selection], check [Color/Monochrome Auto Detection].

Output mode	
C Multi Image Output	
Auto Color Detection	ЭI

4. Select under [Current Side Selection] the side of your choice and perform then for each scan settings on the main configuration screen.

The scan settings are done in advance, for the case documents are detected as [Color/Grey scale] or [Monochroe (binary black and white)].

Select Current Image Setting		
Front: Color/Grayscale		
C Front: Binary		
C Back: Color/Grayscale		
C Back: Binary		

🕹 TWAIN Driver (32)				Multi Image
	Image Scanner: Fi-5950d Setting Files: 00 : Current S Resolution 300 × 300	Scan Type: ADF (Front Side)	Browse Config	Output mode Multi Image Output Auto Color Detection
	300 ≠ dpi □ Predefi <u>n</u> e	Paper Size:	•	Order (for Multi Image Output) Primary: Color/Grayscale Secondary: Binary
	Front Image Mode:	Enable <u>M</u> ulti Imag	ge	Primary: Binary Secondary: Color/Grayscale
13 14 15 16	Black & White Black/White:	Threshold:	128	Select Current Image Setting
17 Scanning Area[inch] Left: 0.000 Iop: 0.000 Width: 8.500 Length: 11.000	Static Threshold Halftone:	Contrast:	128	C Front: Binary C Back: Color/Grayscale C Back: Binary
Scan Preview		Adv	ance	
Close Res <u>e</u> t	Option	<u>H</u> elp	About	
Select the resolution for scanning.		Data Size about	: 1.1MB	

5. Click the [Scan] button to scan the document.

3.12 Not detecting Multifeed for fixed format

When sheets with glued photographs or sticky notes are scanned, the scanner can accidentally detect a multifeed error, and scanning is interrupted. This section explains "Intelligent Multifeed Function", or a resolution function that eliminates such a problem (hereinafter referred to as "this function"). This function has one manual mode and two automatic modes as follows:

- •Manual mode in which multifeed error detection is disabled by manipulating the Operator Panel
- Automatic mode in which the scanner ignores multifeed errors based on information about the glued photos and labels. The above information is stored in memory; it refers to the position and length of those slips (hereinafter referred to as the "glued paper").



Intelligent Multifeed Function

There are three modes; select one according to your needs. Select a mode by using the Software Operation Panel. For how to select a mode, see section 2.

Item in Software	Method to bypass Multifeed	Applicable case	Comments
Operation Panel			
Manual mode (Bypass by front panel button)	When a Multifeed error occurs, press [Send to] to eject sheet in the scanner's transport path. Examine the last sheet scanned. If no paper is glued on the ejected sheet, return the sheet to the Hopper and press the [Scan] button. If glued paper is present on the ejected sheet, return the sheet to the Hopper, press the [Function] button once (Slow Blink rate of the function number display will change to Fast Blink rate) and press the [Scan] button. The scanner will not check for a Multifeed error on the first sheet being scanned. The following sheets are checked for Multifeed errors with the already-existing Multifeed settings in the Software Operation Panel or driver. (Default)	Use this mode when you want to continue scan- ning, while checking for glued paper every time a multifeed error is detected.	Pages scanned before errors are sent to memory. Extraneous images may be generated during a Multifeed error.
Automode 1 (Bypass by com- bination of length and position)	When a Multifeed error occurs, press [Send to] to eject sheet in the scanner's transport path. Examine the last sheet scanned. If no paper is glued on the ejected sheet, return the sheet to the Hopper and press the [Scan] button. If glued paper is present on the ejected sheet, return the sheet to the Hopper, press the [Function] button once (Slow Blink rate of the function number display will change to Fast Blink rate) and press the [Scan] button. The scanner will record the length and posi- tion of the glued paper that caused the error. The following sheets are checked for Multifeed errors and then the scanner bypasses Multifeed, if the scanned overlap pattern is same as already recorded pattern(s).	Use this mode when you scan many sheets in a fixed format; for exam- ple, when every sheet has the same size glued paper at the same position.	Pages scanned before errors are sent to memory. Extraneous images may be generated during a Multifeed error.
Automode 2 (Bypass by length)	When a Multifeed error occurs, press [Send to] to eject paper in the scanner's transport path. Examine the last sheet scanned. If no paper is glued on the ejected sheet, return the sheet to the Hopper and press the [Scan] button. If glued paper is present on the ejected sheet, return the sheet to the Hopper, press the [Function] button once (Slow Blink rate of the function number display will change to Fast Blink rate) and press the [Scan] button. The scanner will record the length of the glued paper that caused the error. The following sheets are checked for Multifeed errors and then the scanner bypasses Multifeed, if the scanned overlap pattern is the same or shorter than the already recorded pattern.	Use this mode when you scan multiple sheets, each having different- size glued paper at a dif- ferent position.	Pages scanned before errors are sent to memory. Extraneous images may be generated during a Multifeed error.

96 | 3.12 Not detecting Multifeed for fixed format

How to Configure Settings with Software Operation Panel

1. First, make sure that the scanner is connected to the personal computer, and then turn on the scanner. Second, press the [Function] button until "C" is displayed on the Operator Panel. Third, press the [Send to] button. Finally, the Software Operation Panel window will appear. (When VRS is used, display the Software Operation Panel window by using the Start menu in Windows.)

ATTENTION If the [Software Operation Panel] is password protected, enter the password to cancel the View Only mode. For details on how to enter the password to cancel the View Only mode, refer to "Password Setting" on page 175.

- 2. Select the "Device setting 2" tab, and then select "Intelligent Multifeed Function" under "Device Setting". Using this tab, do the following:
- Intelligent Multifeed Function Select one of three modes described above.
- Clear overlap pattern When this checkbox is selected, the overlap pattern (length and position) remembered by Auto mode is deleted from memory. If [Do not remember] is specified for [Remember multifeed pattern at poweroff], the overlap pattern is automatically deleted upon changing the mode. However, changing the mode does not delete the overlap pattern if [Remember] is specified.



•Enable Scan button (VRS)

You can specify whether you want to use the [Scan] button to restart scanning after a multifeed error when VRS is used. Select [Enable] to use the [Scan] button. (When [Disable] is selected, scanning is restarted using the Autoresolve function of VRS. Note that this button is grayed out when VRS is not used.

•Remember multifeed pattern at power-off

Specify whether or not to remember the multifeed pattern upon turning off the power. When [Remember] is specified, the multifeed pattern used before the power-off remains available after turning the power back on (Up to 8 patterns can be stored in memory).

Before Using This Function

Configure the following settings before using this function:

- 1. When the TWAIN driver is used, select [Use Memory on Scanner] or [Use both Memory] as [Cache Mode] on the [Job/Cache] tab of the "Option" dialog box. Otherwise you can not continue scanning after a multifeed error.
- 2. When ISIS or the TWAIN driver is used, if you want to start scanning by using the [Scan] button after a multifeed error, configure the driver settings as described below.

[TWAIN driver] Mark the [Enable Scanner Panel] and "Enable [Scan] Button" checkboxes on the [Startup] tab of the "Option" dialog box.

Option		
Rotation Job/Cache Generic Startup Filter Compression	l l	
Scanner Operation Panel		OK
Enable Scanner Panel	Frefer Scanning	Cancel
Poper Heigt Nopper Heigt Nopper Heigt Poper Thideres Name Sandlo Sandlo	speed	Help

[ISIS driver] Mark the "On" checkbox under "Multifeed Recovery" and set "Auto-cancel Timer" to 0 or any value (minutes) on the [Paper Handling] tab of "Properties for Fujitsu fi-5950..." dialog box.

Properties for Fujitsu fi-5950 on STI - 000	1			3
Compression Main Layout Image Processing	Imprinter Paper Handling	At Gamma	cout Color Dropout	
Pre-pick:	Multifeed Recovery V Dn Auto-cancel Timer Off	60		
Auto-cancel Timer: Scanning is not restarted for the set period of time (minutes) after a multifeed error. If scanning is not started after the set minutes, the application is notified of the error by the driver. Note that if the Auto-cancel Timer is set to 0, the application will never be notified of the error.				
	OK Cancel	Default	Help]

3. In the Software Operation Panel or driver dialog box, select [Check Overlapping] or [Check Overlapping and length difference].

Descriptions

1. After a multifeed error, press the [Send to] button to eject sheets from the transport path, or open the cover and remove sheets from the transport path. Return the ejected or removed sheets onto the hopper. When the sheets are removed, the function number displayed changes as follows:

Multifeed error

No sheets in the transport path

"U" and "2" is indicated alternately \rightarrow A function number blinks

If no paper is glued on a sheet but a multifeed error is detected, press the [Scan] button or restart scanning by using the personal computer (in this case, do not press the [Function] button).

If glued paper is present on a removed/ejected sheet, and you think it caused a multifeed error, go to step2.

2. [When using this function] Press the [Function] button, and then make sure that the function number blinks at shorter intervals before you press the [Scan] button or restart scanning by using the personal computer.

From then on, the blinking speed of the function number is increased or decreased (switches between "fast" and "slow") every time the [Function] button is pressed. When sheets are scanned while the function number blinks at shorter intervals, the scanner operates according to the mode selected as follows:



Function number

Operator panel

•Manual mode (Bypass by front panel button)

The first sheet is scanned without a multifeed error being detected. When the second and later sheets are scanned, multifeed errors are detected based on the settings that have been configured in the Software Operation Panel or driver dialog box.

Auto mode1 (Bypass by combination of length and position)

The scanner remembers the length and location of glued paper (overlap pattern) that caused a multifeed error and continues scanning. When glued paper of a similar pattern is detected, the scanner automatically ignores it to avoid multifeed error detection. (Note 1)(Note 2)

•Auto mode2 (Bypass by length)

The scanner remembers the length of the glued paper that caused a multifeed error and continues scanning. When glued paper of the same or shorter length is scanned, the scanner automatically ignores it to avoid multifeed error detection. (Note 2)

- Note 1: In this mode, up to 32 overlap patterns can be remembered (stored in memory). When the 33rd overlap pattern is detected, the first-remembered pattern is deleted from memory.
- Note 2: The remembered overlap patterns can be deleted from memory by pressing the [Function] button for 2 seconds or longer while the function number is blinking. After all overlap patterns are deleted, the display indicates "o". By doing so, you can delete all 32 overlap patterns. Be careful not to delete necessary overlap patterns, too.

4 DAILY CARE

This chapter describes how to clean the scanner.



- Take care not to pinch your fingers inside the ADF.
- The glass inside the ADF becomes hot during operation. Be careful not to get burned.

4.1 Cleaning Materials and Areas Requiring Cleaning104
4.2 Cleaning the Pad106
4.3 Cleaning the Rollers (using the cleaning sheet)107
4.4 Cleaning the Rollers (with a lint-free cloth)
4.5 Cleaning the Transport path and the sensors

4.1 Cleaning Materials and Areas Requiring Cleaning

Cleaning materials

Cleaning materials	Part No.	Remarks
Cleaning sheet	CA99501-0016 (*1)	20 sheets/pack
Cleaner F1	PA03950-0352 (*1)(*2)	1 bottle, 100ml/bottle Moisten cloth with this fluid and wipe the scanner to clean.
Cotton swab	Commercially available	
Cleaning Wipe	PA03950-0419 (*1) (*3)	24 sheets/pack
Lint-free dry cloth	Commercially available (*4)	

- *1)For the purchase of the cleaning material, contact the FUJITSU scanner dealer where you purchased the scanner.
- *2)It may take long before the cleaner vaporizes if a large quantity is used. When cleaning the scanner parts, dampen a cloth with modest quantities of the cleaner. In addition, wipe off the cleaner completely with a soft lint-free cloth to leave no residue on the surface of the cleaned parts.
- *3)Pre-moistened with Cleaner F1, Cleaning wipes are used instead of moistened cloths.
- *4)Any lint-free cloth can be used.

Locations requiring Cleaning and Cleaning Frequency

The following shows the standard cleaning frequency for each area requiring cleaning.

cleaning method	cleaning sheet	cloth moistened with cleaner F1
cleaning cycle	every 10,000 scanned pages (*1)	every 10,000 scanned pages (*1)
Pad		\checkmark
Pick rollers	\checkmark	✓
Brake roller	\checkmark	\checkmark
Separator rollers	\checkmark	\checkmark
Feed roller	\checkmark	✓
Pinch roller	\checkmark	✓
Transport path	✓	✓
Glass		✓
Skew-detection sensor		✓
Document sensors		✓

*1)During scanning, toner, paper dust, oil from carbonless paper, and glue stick to scanner rollers. If the rollers are not cleaned regularly, these will become more difficult to remove. Therefore, it is strongly recommended that the rollers be cleaned after daily use.

......................



- The scanner must be cleaned more frequently if you scan any of the following types of sheets:
 - Documents of coated paper
 - Documents that are almost completely covered with printed text or graphics
 - Paper whose back side has carbon.
 - Chemically treated documents such as carbonless paper
 - Documents containing a large amount of calcium carbonate
 - Documents filled in with pencil
- Do not use aerosol sprays to clean the scanner. The air from the spray
 may cause dirt and dust to enter the scanner mechanism and resulting
 scanner failure or malfunction.
- You must clean the following area more thoroughly when you use fi-590PRF or fi-590PRB imprinters. The imprinter ink tends to stick to the document transport path.
 - Removable sheet guide
 - Glass sheet guide
 - Feed rollers
 - Pinch rollers
- You can confirm the number of scanned sheets after the last cleaning by "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

4.2 Cleaning the Pad

1. Open the ADF cover.

For details, refer to "2.3 Opening and Closing ADF" on page 12.



2. Wipe the Pad (the parts of rubber) with a lint-free cloth, moistened with cleaner F1, in the direction indicated by the arrows.



3. Close the ADF.

If all the cleaning is done, reset the Cleaning counter by referring "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

4.3 Cleaning the Rollers (using the cleaning sheet)

Use the cleaning sheet to clean the upper and lower ADF transport path and the rollers.

1. Open the Pre-Imprinter Cover when the power is off.



2. While pressing the [Scan] button , press the power button to switch on the scanner.

 \Rightarrow The function number display will change as shown below.



3. Stop pressing the [Scan] button

 \Rightarrow The scanner will be started up in the test mode.

4. Close the Pre-Imprinter Cover.

5. Set the side guide of the hopper to B4 width.

For details, refer to "2.6 Loading Documents on the Hopper" on page 17.

6. Pull out the stacker extension and adjust it to the length of the cleaning sheet.

For details, refer to "2.7 Setting up the Stacker" on page 22.

7. Remove the protective paper from the cleaning sheet.



8. Place the same cleaning sheet with the adhesive side <u>facing up</u> on the hopper table, aligning its left side with the side guide, as shown in the illustration below.



9. Press the [Scan] button 2 times (3 times, if Imprinter option is installed.)

⇒The function number display will change as shown below and the cleaning sheet will be fed and ejected into the stacker.



10. Place the same cleaning sheet with the adhesive side facing up on the hopper table, aligning the right side with the side guide, as shown in the illustration below.



11. Press the [Scan] button 2 times (3 times, if Imprinter option is installed.)

 \Rightarrow The cleaning sheet will be fed and ejected into the stacker.

- 12. Remove the protective paper from a new cleaning sheet and place it with the adhesive side facing down on the hopper table, aligning its left side with the side guide.
- 13. Press the [Scan] button
- 2 times (3 times, if Imprinter option is

2 times (3 times, if Imprinter option is

installed.)

 \Rightarrow The cleaning sheet will be fed and ejected into the stacker.

- 14. Place the same cleaning sheet with its adhesive side facing down on the hopper table, aligning its right side with the side guide.
- 15. Press the [Scan] button installed.)

 \Rightarrow The cleaning sheet will be fed and ejected into the stacker. If all the cleaning is done, reset the Cleaning counter by referring "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

16. Press the power button **(()**) to turn off the scanner.

4.4 Cleaning the Rollers (with a lint-free cloth)

 Move the Hopper down to the "low" position if it is set in an upper level. For details, refer to "2.5 Setting the Hopper Height" on page 15.

2. Open the ADF cover.

For details, refer to "2.3 Opening and Closing ADF" on page 12.



3. Open the roller cover.

Grab the depression on the left and right side with your fingers and pull towards you to open the cover.





4. Clean the Pick roller and the rubber surface of the Separator rollers using the cleaner F1.



It may take long before the cleaner vaporizes if a large quantity is used. When cleaning the scanner parts, dampen a cloth with modest quantities of the cleaner. In addition, wipe off the cleaner completely with a soft lintfree cloth to leave no residue on the surface of the cleaned parts.

5. Close the roller cover after the cleaning is finished.

6. Open the Pad cover.

Grab both sides of the cover, press to the inside and pull down (towards you), as shown in the illustration below.



7. Remove the Brake roller.

Move the roller slightly to the right, then pull it upwards to remove it, as shown below.



8. Clean the rubber surface of the Brake roller using a lint-free cloth, moistened with the cleaner F1.



9. Install the Brake roller again after cleaning.



10. Close the Pad cover.

11. Clean the Feed rollers (metal rollers, each set consists of 2 rollers, 9 locations) on the upper side of the lower transport path using a lint-free cloth moistened with the cleaner F1.

Take care especially to remove black stains on the rollers, since such stains are deteriorating the feeding performance.



12. Clean the Pinch rollers (rubber rollers, each set consists of 2 rollers, 9 locations) on the upper side of the upper transport path using a lint-free cloth moistened with the cleaner F1.



13. Close the ADF cover.

For details, refer to "2.3 Opening and Closing ADF" on page 12. If all the cleaning is done, reset the Cleaning counter by referring "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

4.5 Cleaning the Transport path and the sensors

1. Open the ADF cover.

For details, refer to "2.3 Opening and Closing ADF" on page 12.

2. Clean the whole transport path (stainless and glass parts) using a lint-free cloth moistened with the cleaner F1.





3. Clean the supersonic sensors (three pieces), pick sensor (one piece), and skew sensors (six pieces) installed in the lower transport path using a cloth moistened with the cleaner F1.



4. Clean the supersonic sensors (three pieces) and the reflectors for the pick sensor (one piece) and skew sensors (six pieces) installed in the upper transport path using a cloth moistened with the cleaner F1.



5. Clean the IMP top-sensor (one piece), RED top-sensor (one piece), and REJ sensor (one piece) installed in the lower transport path using a cloth moistened with the cleaner F1.



6. Clean the IMP top-sensor (one piece), RED top-sensor (one piece), and REJ sensor (one piece) installed in the upper transport path using a cloth moistened with the cleaner F1.



7. Clean the EXT sensor (one piece) located near the outlet in the upper transport path using a cotton swab moistened with the cleaner F1.



8. Clean the surface of two pads on the Hopper with a lint-free cloth, moistened with cleaner F1.



Friction seat

9. Close the ADF cover.

For details, refer to "2.3 Opening and Closing ADF" on page 12. If all the cleaning is done, reset the Cleaning counter by referring "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

REPLACEMENT OF CONSUMABLES

This chapter describes how to replace consumables.

5.1 Consumables and Replacement Cycle120	
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5.4 Replacing the Pick Roller126	
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5.6 Replacing the Brake Roller131	

5.1 Consumables and Replacement Cycle

The following table lists the Part No. and the standard replacement cycle of the consumables. It is recommended that you stock extra consumables before the ones in the scanner reach the end of Their service life. The consumables must be replaced periodically. You can check the number of scanned pages for the Pad, the Pick roller, the Brake roller, the Separation roller and the Print Cartridge. For further details, refer to "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

Part Name	Part No.	Standard replacement cycle
Pad	PA03450-K014	600,000 sheets or 1 year
Pick Rollers	PA03450-K011	600,000 sheets or 1 year
Brake Roller	PA03450-K013	600,000 sheets or 1 year
Separator Rollers	PA03450-K012	600,000 sheets or 1 year
Print Cartridge	CA00050-0262	4,000,000 characters

The replacement cycle is based on the printing on Letter/A4 woodfree paper or wood containing paper

documents (80 g/m²). The replacement cycle may differ due to paper quality, print density or paper type. The print cartridge is a consumable for the imprinter option (sold separately). It can be used for the Preand Post-imprinter.

Please understand that some parts may need replacement by service engineer depending on scanned document type or its duty of scanning. For further information, contact the FUJITSU scanner service provider. For the purchase of the consumables, contact the FUJITSU scanner dealer where you purchased your scanner.



5.2 How to check and reset the Consumable/Cleaning Counter

This section describes the procedure of the following items using Software Operation Panel in PC.

- •Confirmation of consumable usage and cleaning cycle.
- Counter reset after replacing the consumable or cleaning the scanner.



Checking consumable or cleaning counter

- 1. Turn on the scanner and confirm if it is connected correctly to you PC.
- 2. From the [Start] menu select [All Programs] → [Scanner Utility for Microsoft Windows] → [Software Operation Panel] .



⇒The [Software Operation Panel] window will be displayed.

Device Setting Multified detection when scanning in manual feeding mode - Page Edge Filler (ADF) Dropout color - Page Edge Filler (ADF) Document check area specification for Multified Detection Intelligent Multified Function Number of page Teeding retries Retain current pager filter(Anses Clearing Cycle Life Counter Alarm Setting Set the interval for feeding retries Thin Pager Mode Soft Pick Setting Page Filler (ADF) Page Tage Size Detection AutoCop Bounday SCSI Bus Width Auto color Detection Adam setting Jam setting Jam setting Saan Setting for Sacanable area when transporting pager Imprinter selection Timo Pager Ided Scannable area when transporting pager Imprinter selection Timo Check man strending Scan Setting for Document with Tab (Automatic Page Size Detection) Pager Jap ostion at multified error Oversona Check	To diagnose the scanner Diagnose Report not diagnosis yet.
--	--

3. Select the [Device Settings] tab.

In this window, the following items can be confirmed.

Total Page Count(ADF):	The total number of scanned sheets.
After cleaning:	The number of sheets, scanned since last scanner cleaning.
Pad:	The number of sheets, scanned since last exchange of the Pad.
Brake Roller:	The number of sheets, scanned since last exchange of the Brake roller.
Pick Roller:	The number of sheets, scanned since last exchange of the Pick rollers.
Separator Roller:	The number of sheets, scanned since last exchange of the Separator rollers.
Remaining Ink (Post): Remaining Ink (Pre):	The remaining ink of the imprinter (sold separately) ink cartridge. (Only displayed when the imprinter option is used)

Resetting of the consumable/cleaning counters

Reset the consumable/cleaning counter(s) every time you replace the consumable or clean the scanner, following the procedure given below.

In View Only mode, the Software Operation Panel cannot be reset. For details on "View Only mode", refer to "Password Setting" on page 175.

- FUJITSU Software Operation Pane Diagnosi: -Device Info Device Setting Page Counter 105490 pages Total Page Count(ADF): Device Setting 2 Multifeed Multifeed detection when scanning in manual feeding mode 0 Clear(1) After cleaning: pag Page Edge Filler (ADF) Dropout color Pre-Pick 55500 Clear(2) Brake Roller: pag 55500 Pre⁵Rick Page Edge Files (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multifeed Function Number of page feeding retries Retain current paget thickness Cleaning Cycle Life Counter Alarm Setting Set the interval for feeding sheets Thin Pager Mode Soft Pick Setting Pager jain detection Clear(3) Pick Roller: pag 55500 Clear(4) pag Separator Roller 55500 pag Pad: Clear(5) 100 % Clear(6) Remaining Ink (Post) Power saving: 15 minutes Paper jam detection AutoCrop Boundary SCSI Bus Width Offset... Auto color Detection Alarm setting Jam detection outside of scannable area when transporting paper Imprinter selection Impline selection Timeout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifeed error stop positio can Control OK Cancel Apply (A)
- 1. Click the [Clear] button beside the replaced consumable.

2. Click the [OK] button on the displayed confirmation message.

 \Rightarrow The value of the counter will be reset to "0". ("100", in case of "Remaining Ink").

3. To close the window of the [Software Operation Panel], click the [OK] button.

Imprinter selection Timeout for manual (seding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifeed error Overscan Control	
	OK Cancel Apply (A)

Consumable/Cleaning message

The following message may appear while using the scanner:

Consumable message:	
FJTWAIN	
It is about time to replace the consumable. Please replace Pick Roller in paper feeder if the feeding capability is deteriorated. Regarding how to replace the pad, please refer to the Operator's Guide. (Code: DS42005)	
This message not display again Warns again after scanning 1000 pages	
Cleaning message:	
TWAIN driver	
Clean the inside of the scanner. After cleaning, start up Software Operation Panel. Under (Code: DS42009)	[Device Setting], reset the count for [After clearning:] by clicking the [Clear(1)] button.
	CK

Replace the consumable or clean the scanner when this message is sisplayed. After clicking the [Ignore] button, this message will disappear and scanning will continue. Replace the consumable as soon as possible.

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

For the replacement of consumables, refer to the following sections.

Pad:	"5.3 Replacing the Pad" on page 125
Pick rollers:	"5.4 Replacing the Pick Roller" on page 126
Separator rollers:	"5.5 Replacing the Separator Rollers" on page 128
Brake roller:	"5.6 Replacing the Brake Roller" on page 131

For the scanner cleaning, refer to "4 DAILY CARE" on page 103.
5.3 Replacing the Pad

1. Open the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.



2. Move the Pad to the left, than pull it up in order to remove it from the scanner.



3. Install the new Pad in the reversed order of the removable.

4. Close the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.

5. Reset the Pad counter.

Refer to "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

5.4 Replacing the Pick Roller

1. Open the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.



2. Open the roller cover.

Put your fingers in the depression on the left and right side and pull the cover towards you to open it.



3. While pulling up the tab away from the shaft, slide the Pick rollers (2 rollers, left and right) from the shaft for removal.



4. Install the new Pick rollers (2 rollers, left and right) in the reversed order of the detachment.

Put the roller correctly on the shaft, until it is locked in place.

- 5. Close the roller cover.
- 6. Close the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.

7. Reset the Pick roller counter

Refer to "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

5.5 Replacing the Separator Rollers

1. Open the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.



2. Open the Roller cover.

Put your fingers in the depressions on the left and right side and pull the cover towards you to open it.



3. Slide Separator rollers (2 rollers, left and right) away from each other along the shafts for removal as shown below.



 \Rightarrow The shaft will be locked in outer position and stays there.

4. Remove the rollers from their shafts.

Remove both, the left and the right rollers.



5. Put the new rollers (2 rollers, left and right) on the shafts.

Align the screw with the groove on the Separation roller to put the roller on the shaft.



6. Close the roller cover.

⇒The Separator rollers will move to their original position automatically.



7. Close the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.

8. Reset the counter of the Separation roller.

Refer to "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

5.6 Replacing the Brake Roller

1. Move the Hopper down to the "low" position if it is set in an upper level. For details, refer to "2.5 Setting the Hopper Height" on page 15.

2. Open the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.



3. Open the Pad cover on the lower transport path.

Grab both sides of the cover, press to the inside and pull down (towards you), as shown in the illustration below.



4. Remove the Brake roller

Lift up the left side of the Brake roller and remove the left shaft. Then pull the right shaft out of its hole to remove it.



5. Install the new Brake roller.

After inserting the right end of the shaft into the hole, attach the left end.



6. Close the Pad cover.

7. Close the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.

8. Reset the Brake roller counter.

Refer to "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

6 SOLVING COMMON PROBLEMS

This chapter describes how to clear document jams, how to remedy other problems, items to be checked before contacting an authorized service provider and how to check labels on the scanner.

6.1 Clearing Document Jams134	
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6.1 Clearing Document Jams

When documents have been jammed during scanning, use the following procedure to remove them from the scanner.



1. Remove all remaining documents from the scanner before removing jammed documents.



2. Open the ADF cover.

Refer to "2.3 Opening and Closing ADF" on page 12.



3. Remove the jammed documents.



4. Close the ADF cover.

Refer to ."2.3 Opening and Closing ADF" on page 12.

6.2 Error messages of the Operator panel

When a problem occurs, [J] or [U] followed by a number will be displayed on the function number display in case of an <u>temporary error</u>. In case of an <u>hardware alarm</u>, [E] and a number will be displayed alternately. A temporary error can be solved by the user, the resolving of hardware alarms requires professional service support from an authorized FUJITSU scanner service partner.



When the Error Recovery Guide is installed on your PC, its window will be displayed when stating up Windows. When hardware alarms or temporary errors occur, the name and code of the error, as well as further information will be displayed.

Note down the displayed information and click the [Details] button to obtain further solutions for troubleshooting.

Installing the Scanner Software".



Temporary Errors

[J] or [U] and a number will be displayed alternately.

(When pushing the [Scan] or [Send to] button, the error indication on the function number display will disappear and the scanner goes into the ready status.)

Display	Meaning	Solution				
JO	The paper feeding stopped to protect jammed paper from damage.	1. Remove the jammed document. Refer to "6.1 Clearing Document Jams" on page 134.				
U1	A paper jam occurred.	2. Confirm if the document conditions are appropri- ate for scanning with the ADF. (Refer to "7.2 Document Quality" on page 159)				
U2	A Multifeed occurred.	When pushing the [Send to] on the Operator panel, the multi fed papers will be ejected.(*1)				
U4	The ADF or the Pre-Imprinter cover is opened.	Close the ADF cover or Pre-Imprinter cover cor rectly.				
U6	The print cartridge of the imprinter (sold sepa- rately) is not set.	This error occurs only when the imprinter option (sold separately) is used. Refer to the "fi-590PRF/fi-590PRB Imprinter Operator Guide" for further details.				
U8	One of the following error occurred:1. Document sensors are dirty.2. The stacker is full.3. The Brake roller or Separator rollers are not installed properly.	 Clean the document sensors. For details, refer to "4.5 Cleaning the Transport path and the sensors" on page 114. Verify that the number of sheets ejected to the stacker is below stacker's capacity, and that the Pick roller is not set for manual feeding. Verify that the both rollers are installed properly. For details, refer to "5.5 Replacing the Separator Rollers" on page 128 and "5.6 Replacing the Brake Roller" on page 131. 				

(*1) If you press the [Send to] button before the error message is displayed on the PC screen, multifed documents are not ejected.

■ Hardware Alarms

[E] and a number will be displayed alternately.

Display	Meaning	Solution			
E0	Error in the Hopper or Stacker	1. When you encounter any alarm, turn off and on the			
E2	Optical system error (front)	scanner.			
E3	Optical system error (back)	2. If doing this (step 1) does not improve the situation, \square			
E4	The motor fuse has blown out.	press the \checkmark and \checkmark buttons, which are labeled as			
E5	The lamp fuse has blown out.	2 seconds. Write down two characters displayed			
E6	Operator panel error	Ø			
E7	Trouble occurred in the internal memory (EEPROM).	between and . Example: In this case, "64" is displayed on the nanel			
E8	The SCSI fuse has blown out. (*1)				
E9	Image memory error				
EA	Imprinter error (*2)	Denot the two or dea from the "Dianlaw" externa			
Ec	Image memory error	and from the procedure above to the dealer where			
Ed	SCSI interface or USB interface controller error	you purchased the scanner or an authorized			
EF	Background switching mechanism error	FUJITSU scanner service provider.			
E10	ROM error				
E11	Cooling fan error				
E12	Heater error				
E15	Extended memory error	 Confirm the following: Is the used additional memory compatible? Is the additional memory installed correctly? Is the additional memory damaged? Note that this error will be displayed only three times after powering the scanner on. After that, the scanner will perform scanning in the state of no additional memory installed. When you encounter this E15 error, turn off and on the scanner. If the alarm is still displayed on the Function Number Display, contact the dealer where you purchased the scanner or an autho-rized FUJITSU scanner service provider. 			
E16	Option board error (*3)	When you encounter any alarm, turn off and on the			
E17	The imprinter fuse has blown out.	scanner. If the alarm is still displayed on the Func- tion Number Display contact the dealer where you			
E18	Sensor error (*4)	purchased the scanner or an authorized FUJITSU			
E19	LSI error	scanner service provider.			
E1A	Troubles occurred in the communication inside of the scanner.				
E1b	5-volt control board fuse has blown out.				

*1 Turn off the scanner. Check that the SCSI cable is plugged firmly, and then turn on the scanner again.

- *2 Turn off the scanner. Reinstall the ink cartridge according to the Operator's Guide of Imprinter, and then turn on the scanner again.
- *3 Turn off the scanner. Reinstall the option board properly, and then turn on the scanner again.
- *4 1.If any abnormality occurs, turn off the scanner once, and then turn it on again.
 - 2.If doing this (step 1) does not improve the situation, press the \triangleleft and \triangleright buttons, which are labeled as "Paper thickness" on the operator panel, for at least 2 seconds. Write down two characters dis-

played between 📕 and 📕

Example: In this case, "14" is displayed on the panel.



3.According to section "4.5 Cleaning the Transport path and the sensors" on page 114, clean respective sensors for each code as shown in the table below.

Code	Sensor Name
1b	Supersonic sensor (three pieces in the upper and lower transport paths; respectively)
11	Pick sensor (one piece in the lower transport path) Reflector for pick sensor (one piece in the upper transport path)
17	Skew sensor (six pieces in the lower transport path) Reflector for skew sensor (six pieces in the upper transport path)
12	IMP top-sensor (one piece in the upper and lower transport paths; respectively)
13	RED top-sensor (one piece in the upper and lower transport paths; respectively)
15	REJ sensor (one piece in the upper and lower transport paths; respectively)
14	EXT sensor (one piece in the upper transport path)

6.3 Troubleshooting

This section describes common troubles during usage and how to remedy the troubles. Before you ask for repair service, check the following flowchart to determine the trouble. If you can not resolve the trouble after following the flowcharts, check the items in section "6.4 Before Contacting a Service Provider" on page 153, and then contact an authorized FUJITSU Scanner service provider.





(*) Press any button except the Power button.

6



(*1) Refer to fi-5950 Getting Stated, "2.2 Connecting the scanner to your PC".



- (*1) When scanning pictures or photos simply with binary black and white, the generated image might differ from the original. If possible, set the image type on the scanner driver to "halftone" or "grayscale" before scanning.
- (*2) Refer to "4.5 Cleaning the Transport path and the sensors" on page 114.



- (*1) When scanning with halftone, grey scale or color, the images might not become sharp and clear. If possible, set the image type on the scanner driver to "Binary black and white".
- (*2) Refer to "4.5 Cleaning the Transport path and the sensors" on page 114.



(*) Refer to "4 DAILY CARE" on page 103.



(*) Refer to "4.5 Cleaning the Transport path and the sensors" on page 114.





- (*1) Refer to "7.2 Document Quality" on page 159.
- (*2) Refer to "7.5 Multifeed Detection Conditions" on page 164.
- (*3) Refer to "3.7 Detecting Multifeeds" on page 82.
- (*4) Refer to "2.6 Loading Documents on the Hopper" on page 17.
- (*5) Refer to "4 DAILY CARE" on page 103.
- (*6) Refer to "5 REPLACEMENT OF CONSUMABLES" on page 119.
- (*7) Refer to "2.9 Setting the Paper Thickness" on page 29.





- (*1) Refer to "7.2 Document Quality" on page 159.
- (*2) Refer to "2.6 Loading Documents on the Hopper" on page 17.
- (*3) Refer to "5 REPLACEMENT OF CONSUMABLES" on page 119.
- (*4) Refer to "4 DAILY CARE" on page 103.
- (*5) Refer to "5 REPLACEMENT OF CONSUMABLES" on page 119.
- (*6) Refer to "2.9 Setting the Paper Thickness" on page 29.



- (*1) Refer to "4 DAILY CARE" on page 103.
- (*2) Refer to "7.2 Document Quality" on page 159.
- (*3) Refer to "8 SCANNER SETTINGS" on page 171.



(*1) Refer to "8 SCANNER SETTINGS" on page 171.

6.4 Before Contacting a Service Provider

Check the following items before contacting an authorized FUJITSU Scanner service provider or the dealer where you bought the scanner.

General descriptions

Items to check	Information
Model	example: fi-5950 Check the labels on the scanner for the model name. Refer to "6.5 Labels on the Scanner" on page 155.
Serial Number	example: 000001 Check the labels on the scanner for the Serial Number. Refer to "6.5 Labels on the Scanner" on page 155.
Manufacturing date	example 2010-03 (March 2010) Check the labels on the scanner for the manufacturing date. Refer to "6.5 Labels on the Scanner" on page 155.
Date of purchase	
Symptom	
Frequency of trouble	
Do you have warranty for this product?	
Name of option product used	example fi-590PRF For more details about the options. Refer to "9.1 Options" on page 224.

Error Descriptions

■ Problem at the time of PC connection.

Items to check	Findings
OS (Windows) type	
Displayed error message	
Interface	(example) SCSI interface
Interface controller	(example) Adaptec SCSI Card 29160

Document feeding trouble

Items to check	Findings
Document type	
Main purpose of use	
Last cleaning date	
Last consumable replacement date	
Operator panel status at trouble	

Imaging quality trouble

Items to check	Findings			
Type and version of scanner driver				
Interface controller	(example) Adaptec SCSI Card 29160			
OS (Windows) type				
Application software	(example) ScanAll PRO, Adobe Acrobat			
Scanning side (s)	(example) font, back, duplex			
Resolution	(example) 600 dpi, 75 dpi			
Image mode	(example) Color, Grayscale, Binary (black & white)			

Others

Items to check	Findings
Can you send both the output results and photographs that show the condition of the document by e-mail or FAX ?	

6.5 Labels on the Scanner

This section describes how to check the labels on the scanner.



The following shows where the two labels are located on the scanner.

Label A (example): Indicates scanner information.

MODEL fi-5950 Rev.													
PART NO.	PA03450-B5	50#		0	1	2	3	4	5	6	7	8	9
SER.NO.				0	1	2	3	4	5	6	7	8	9
DATE	****-**	50 k s		0	1	2	3	4	5	6	7	8	9
AC100-240V 50/60Hz 1# 3.6 -1.6 A Barcode Area													
PFU Limited a Fujitsu company MADE IN JAPAN 🛷													

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



7 DOCUMENT SPECIFICATIONS

This chapter describes the sizes and qualities of documents required for the satisfactory performance of the scanner.

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7.1 Document Size

The following shows the supported document sizes.



Maxi	mum	Minimum				
A	В	Α	В			
304.8 mm (12 in)	431.8 mm * (17 in)	53 mm (2.087 in)	74 mm (2.913 in)			

*When scanning on "long page", following length is available.

- 201 dpi to 400 dpi: : 863 mm (34 in)
- 200 dpi and under : 3,048 mm (120 in)

7.2 Document Quality

This section describes the types and thickness of documents this scanner supports.

Document type

The recommended document types are as follows.

- Wood free 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:

31 to 209 g/m² (For paper sizes equal or bigger than B4 : 52 to 157 g/m²)

Precautions

The following documents may not be scanned successfully.

- Document of non-uniform thickness (e.g. envelopes and documents with photographs attached)
- •Wrinkled or curled documents (Refer to HINT on on page 161)
- 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
- Photographs

Do not use the following documents:

- Paper-clipped or stapled documents
- Documents on which the ink is still wet
- •Documents smaller than A8 or larger than A3
- Documents other than paper such as fabric, metal foil, or transparencies



- When scanning semi-transparent documents, set the density to light to avoid a bleed through.
- To prevent the rollers from becoming dirty, avoid scanning documents containing large areas written or filled with pencil. If scanning of such documents is inevitable, clean the rollers more frequently.
- When feeding errors, paper jams and multifeeds occur frequently, refer to "2.9 Setting the Paper Thickness" on page 29.


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

Cleaning:

If pick errors occur frequently, clean the Pad and the Pick roller. For details on cleaning the Pad and the Pick roller, refer to "4 DAILY CARE" on page 103.

Replacing parts:

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

- If paper containing wood is scanned, the service life of the Pad and Pick roller may become shorter than that of the Pad and Pick roller used for scanning only woodfree paper.
- The pad or rollers of the scanner could be damaged if photographs or sheets of paper attached to the scanned document have contact with the pad or rollers during scanning.
- Scanning documents of calendered paper such as photographs may damage the surface of them.



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:

.



7.3 Maximum Document Loading 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 (g/m²)

Paper weight conversion table

Unit	Conversion									
g/m ²	31	52	64	75	80	90	104	127	157	209
lb	10	14	17	20	21	24	28	34	42	56

7.4 Hole-punching Prohibited Areas

Punched holes in the shaded areas may cause errors.

For job separation sheet requirements, refer to "7.7 Job Separation Sheet" on page 167.



7.5 Multifeed Detection Conditions

The following describes the conditions required for Multifeed detection:

Check overlapping

- •Paper weight: 31 209 g/m² (8.3 to 56.1 lb)
- •Punched holes are not allowed within 35 mm (1.4 in) of the vertical lines of the center, right and left sides of the the document as shown in Fig. 1.
- •Other paper shall not be glued within 35 mm (1.4 in) of the vertical lines of the center, right and left sides of the the document as shown in Fig. 1.



(Load only documents of the same length onto the hopper.)

- •Document length deviation: 1% or less
- •Punched holes are not allowed within 35 mm (1.4 in) of the vertical center line of the document as shown in Fig. 2.

Check overlapping and length

(Load only documents of the same length and thickness onto the hopper.)

- •Paper weight: 31 157 g/m² (8.3 to 42 lb)
- •Document length deviation: 1% or less
- •Punched holes are not allowed within 35 mm (1.4 in) of the vertical lines of the center, right and left sides of the the document as shown in Fig. 1.
- •Other paper shall not be glued within 35 mm (1.4 in) of the vertical lines of the center, right and left sides of the the document as shown in Fig. 1.



. . . .

- When you want to detect overlapping, be sure that paper documents are not clinging to each other. Those clinging documents (glued or with static cling) may cause a lower multifeed-detection ratio.
- The area shown in Fig. 1 can be changed using the Software Operation Panel. For details, please refer to "8.4 Multifeed Detection" on page 190.

7.6 Background Color Areas

Paper white detection is performed in the shaded area as shown in the Figure below. The top 3mm on both sides of a document, should have no printing in this area.

When using dropout color, the color can be in this area. If this cannot be followed, turn the white level follower off when reading.



7.7 Job Separation Sheet

1. Shape

The following shows the typical format of the job separation sheet.



2. Document Specifications

Document width must be A4 width (210mm/8.27") or wider.

7.8 Scanning Mixed Documents

When scanning documents of different thickness/Friction Coefficients/sizes using this scanner, the following restrictions apply. Before you scan any mixed documents, always test scan a few pages to see if the mixed document can be properly fed.

(For details on how to scanning mixed documents, refer to "3.3 Scanning Documents with different widths" on page 67.)

Types of Documents

It is recommended to align the paper direction (how the fibers are lying in the sheet) with the feeding direction.

I The Thickness of Documents

The mixed documents' paper weight (thickness) should be in the range below:

31 to 209g/m² (8.3 to 56.1lb; 0.04 to 0.25mm)

For paper sizes equal or bigger than B4: 52 to 157 g/m² (14 to 42 lb)

The Friction Coefficients

Paper of same manufacturer's same brand is recommended. When paper of different manufacturers/ brands are mixed, the differences of their friction coefficients become very large, which will adversely affecting the feeding performance.

Generally speaking, the friction coefficients of different kinds of paper shall be in the range of 0.35 - 0.64.

Document Sizes

Refer to the table below when mixing documents of different sizes.

When scanning mixed size document, because the hopper side guides will not function, the scanned images are easily skewed. We recommend you to enable "Automatic Page Size Detection".
Multifeed Detection by length cannot be used together with "Automatic Page Size Detection".

Maxi	mum S	ize	A3	DL	B4	LTR	A4	B5	A5	B6	A6	B7	A7	B8	A8
	Widt	h(mm)	297	279	257	216	210	182	149	129	105	91	74.3	64.3	52.5
	A3	297													
	DL	279													
	B4	257													
	LTR	216													
	A4	210													
ı size	B5	182													
mum	A5	149													
Mini	B6	129					Mixir	ng Pose	sible						
	A6	105													
	B7	91													
	A7	74.3													
	B8	64.3													
	A8	52.5													

DL: 11×17 in., LTR: Letter size.

Because of friction, smaller document under larger document will be moved when the larger document is being picked up, adversely affecting feeding performance.

When setting the document, try to meet the following condition:



Bottom of Hopper

SCANNER SETTINGS

This chapter explains the how settings can be done for the scanner using the Software Operation Panel.

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8.1 Scanner Settings

The Software Operation Panel will be installed together with the scanner driver (TWAIN driver/ISIS driver).

With this application, you can configure settings and functions for the fi-5950.

Do not use the operator panel while the Software Operation Panel is running.
Ilf you connect multiple scanners, the second scanner and so forth will not be recognized. Connect only one scanner at a time.

Start up the Software Operation Panel

Start up via PC

- 1. Confirm if the scanner is connected correctly to the PC, then power on the scanner.
- 2. From the [Start] menu, select [All Programs] [Scanner Utility for Microsoft Windows] [Software Operation Panel].



⇒The [Software Operation Panel] window will be displayed.

FUJITSU Software Operation Panel	
Diagnosis Device Info Device Setting → Multifieed → Multifieed → Multifieed → Proposition → Proper Reding retries → Retain Current Apart Multifeed Trunction → Number of paper Reding retries → Retain Current Apart Multifieed Trunction → Life Counter Alam Setting → Soft Pick Setting → Paper Mode → Soft Diversion → Auto Corp Detection → Auto Accolor Detection → Auto Accolor Detection → Auto Acection	 None Check Overlapping(Ultrasonic) Check Length Check Overlapping and Length Length 10 mm
Uverscan Lontrol	
	OK Cancel Apply (A)

Start up via Scanner

3.

- 1. Confirm if the scanner is connected correctly to the PC, then power on the scanner.
- 2. Press the [Function] button Operator Panel. The Function



When pressing the [Function] button, the Function Number Display will change in the following way: $[1] \rightarrow [2] \rightarrow ... \rightarrow [9] \rightarrow [C].$

Press the [Send to] button.

⇒The [Software Operation Panel] window will be displayed.

FUJITSU Software Operation Panel					
PUTISU Software Operation Panel	 ∩ None Check Overlapping(Ultesonic) ∩ Check Length ∩ Check Overlapping and Length Length 10 ± mm 				
	OK Cancel Apply (A)				

Password Setting

By setting a password, the Software Operation Panel can run in [View Only mode] which allows users to only view the scanner settings.

The scanner settings can be configured if no password is set.

In order to prevent unnecessary changes to the settings, a password can be used to restrict user operations.



Setting a Password

Set a password in the following procedure.

1. Right-click the Software Operation Panel icon in the taskbar, and select [Password Setting] from the menu.



 \Rightarrow The [Password setting] dialog box appears.

2. Enter a password then again to confirm, and click the [OK] button.

Up to 32 characters can be used for the password.

Note that only alphanumeric characters (a to z, A to Z, 0 to 9) are allowed.

Password setting	
Enter a new password.	OK
Enter the new password again to confirm.	Lancel

 \Rightarrow A message dialog box appears.

3. Click the [OK] button.

 \Rightarrow The password is set.

Setting the [View Only mode]

Set the Software Operation Panel to [View Only mode] in the following procedure.

1. Set a password.

 \Rightarrow For details, refer to "Setting a Password" on page 175.

2. Right-click the Software Operation Panel icon in the taskbar, and select [View Only mode] from the menu.



⇒The Software Operation Panel enters the [View Only mode].

Diagnosis	Preferences	Value 1
Device Info	Multifeed	Check Overlapping/UI.
Device Setting	Multifeed detection when scanning in m	Disable
Device Setting 2	Page Edge Filler (ADF)	T:0 B:0 R:0 L:0 mm
	Dropout color	Green
	Pre-Pick	Yes
	Page Edge Filler (Automatic Page Size	T:0 B:0 R:0 L:0 x0
	Document check area specification for	
	Left	
	- Modes of Selection	Specify non-detection.
	- Specify area	0 - 0 mm
	Middle	
	- Modes of Selection	Specify non-detection.
	- Specify area	0 - 0 mm
	Bight	
	- Modes of Selection	Specify non-detection.
	- Specify area	0 - 0 mm
	Intelligent Multifeed Function	Manual mode
	Number of paper feeding retries	12 times
	Retain current paper thickness	Do not remember
	Cleaning Cycle	10000 pages
	Life Counter Alarm Setting	
	Pick Rollers	600000 pages
	Default	Save Resto



Clearing the [View Only mode]

Clear the [View Only mode] in the following procedure.

1. Right-click the Software Operation Panel icon in the taskbar, and select [View Only mode] from the menu.



 \Rightarrow The [Password setting] dialog box appears.

2. Enter the password and click the [OK] button.

Password setting	
Enter your current password.	Cancel

 \Rightarrow [View Only mode] is cleared, and the scanner settings can now be changed.

FUJITSU Software Operation Panel	
FUJITSU Software Operation Panel	None Check Overlapping(Ultrasonic) Check Length Disck Overlapping and Length
Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multifeed Function Number of paper feeding retries Retain current paper trickness Clearning Cycle Life Counter Alarm Setting Set the interval for feeding sheets Thin Paper Mode Soft Pick Setting Paper igm detection Auto Color Detection Auto Color Detection Jam setting Jam setting Jam detection outside of scannable area when transporting paper Improved from annual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifeed enror	Length 10 mm
	OK Cancel Apply (A)



When you exit [View Only mode], the check mark next to [View Only mode] disappears from the menu that is displayed by right-clicking the Software Operation Panel icon.



Changing the Password

Change the password in the following procedure.

1. Right-click the Software Operation Panel icon in the taskbar, and select [Password Setting] from the menu.



 \Rightarrow The [Password setting] dialog box appears.

2. Enter the current password and click the [OK] button.

Password setting	
Enter your current password.	Cancel

 \Rightarrow The [Password setting] dialog box appears.

3. Enter a new password then again to confirm, and click the [OK] button.

Up to 32 characters can be used for the password. Note that only alphanumeric characters (a to z, A to Z, 0 to 9) are allowed.

Password setting	×
Enter a new password. Enter the new password again to confirm.	Cancel

 \Rightarrow A message dialog box appears.

4. Click the [OK] button.

 \Rightarrow The password is set.

Clearing the Password

Clear the password in the following procedure.

1. Right-click the Software Operation Panel icon in the taskbar, and select [Password Setting] from the menu.



 \Rightarrow The [Password setting] dialog box appears.

2. Enter the password and click the [OK] button.

Password setting	
Enter your current password.	OK Cancel

 \Rightarrow The [Password setting] dialog box appears.

3. Leave both fields blank and click the [OK] button.



 \Rightarrow A message dialog box appears.

4. Click the [OK] button.

 \Rightarrow The password is cleared.

Resetting the Password

In case you forgot your password, it can be reset in the following procedure.

1. Right-click the Software Operation Panel icon in the taskbar, and select [Password Setting] from the menu.



 \Rightarrow The [Password setting] dialog box appears.

2. Enter the default password which is "fi-scanner", and click the [OK] button.

Password setting	
Enter your current password.	Cancel

 \Rightarrow The [Password setting] dialog box appears.

3. Enter a new password then again to confirm, and click the [OK] button.

Up to 32 characters can be used for the password.

Note that only alphanumeric characters (a to z, A to Z, 0 to 9) are allowed.

Password setting	
Enter a new password. Enter the new password again to confirm.	Cancel

 \Rightarrow A message dialog box appears.

4. Click the [OK] button.

 \Rightarrow The password is set.

Settings

Using the Software Operation Panel, you can configure the following settings for the scanner connected to the PC.



[Device setting]



Item	Explanation	Selectable parameter	Default
Page Counter (Consumables counter)	For evaluating the consumable replace- ment cycle or cleaning cycle. Use this function to reset the counters after replacing consumables or the cleaning. Refer to "5.1 Consumables and Replacement Cycle" on page 120.	After Cleaning/Pad/Pick roller/Sepa- rator Roller/Brake roller/Remaining ink level (only for the imprinter option)	-
Power saving	Select the waiting time before entering the Power saving mode. Refer to "8.2 Power saving setting" on page 187.	Setting range 15 to 55 minutes (set in steps of 5 min.)	15 min.
Offset setting	Adjust the start position for the docu- ment scanning. Refer to "8.3 Offset/Scan scale" on page 188.	Left right: setting range -2 to 3mm (set in 0.5mm steps) Up down: setting range -2 to 3mm (set in steps of 0.5mm)	left right Omm up down Omm
Vertical magnifi- cation Adjustment	Adjust the magnification in the feed- ing direction. Refer to "8.3 Offset/Scan scale" on page 188.	Setting range -6.3% to 6.3% (set in 0.1% steps)	0%

[Device settings 2]

Diagnosis	Preferences	Value 1	1
Device Info	Multifeed	Check Overlapping(Ul	
Device Setting 2	Multifeed detection when scanning in m	Disable	
- Multifeed	Page Edge Filler (ADF)	T:0 B:0 R:0 L:0 mm	
Multifeed detection when scanning in manual feeding mode	Dropout color	Green	
- Page Edge Filler (ADE)	Pre-Pick	Yes	
- Dropout color	Page Edge Filler (Automatic Page Size	T:0 B:0 B:0 L:0 x0	
Pre-Pick	Document check area specification for		
Page Edge Filler (Automatic Page Size Detection)	Left		
- Document check area specification for Multifeed Detection	- Modes of Selection	Specify non-detection	
- Intelligent Multifeed Function	Specify area	0 · 0 mm	
 Number of paper feeding retries 	Middle		
 Retain current paper thickness 	Modes of Selection	Specify non-detection	
Cleaning Cycle	Specify area	0 • 0 mm	
- Life Counter Alarm Setting	Bight		
 Set the interval for feeding sheets 	Modes of Selection	Specify non-detection	
- Thin Paper Mode	· Specifu area	0 - 0 mm	
Soft Pick Setting	Intelligent Multifeed Function	Manual mode	
- Paper jam detection	Number of paper feeding retries	12 times	
AutoLrop Boundary	Betain current paper thickness	Do not remember	
SUSI Bus Width	Fleaning Fucle	10000 pages	
Auto color Detection	Life Counter Alarm Setting	10000 pages	
I am detection extends of economiable area when transporting paper	- Pick Bollers	600000 pages	
Imprinter selection	- Brake Bollers	600000 pages	
Timeout for manual feeding	. Pad	600000 pages	
- Scan Setting for Document with Tab (Automatic Page Size Detection)	- Separator Bollere	600000 pages	
Paper stop position at multifeed error	1 · Sebarator hollers	600000 bades	
- Dverscap Control	Default	Save Restore	3

Selecting each item displays detailed settings (parameters) in the right part of the dialog box.

Item	Explanation	Selectable parameter	Default
Multifeed "Section 8.4"	Select the method to detect Multifeed. (Check either of overlapping or document length, or both of document length and over- lapping)	None/Check Overlapping [Ultrasonic]/Check Length/ Check Overlapping and Length. Selectable length (to be detected as length difference): 10, 15 or 20mm	Check overlapping
Multifeed detec- tion when scan- ning in manual feeding mode "Section 8.5"	Multifeed can be detected by this setting, even if the manual feeding is set.	Disable/Follow driver settings	Disable
Page Edge Filler (ADF) "Section 8.6"	Fill the end sections of a specified-mm-wide with white or black on the scanned image. When the backing (background) color is white, the end sections are filed with white; and when the background color is black, filled with black.	Top/left/right: 0 to 15mm Bottom: -7 to 7mm (can be set in increments of 1mm)	Top/Bottom/ Left/Right: 0mm

Item	Explanation	Selectable parameter	Default
Dropout color "Section 8.7"	Drop out a preselected color for the scanned image. (Binary black & white/grayscale mode only)	Red/Green/Blue/None	Green
Pre-Pick "Section 8.8"	To give a higher priority to processing speed, select [Yes], if not, select [No].	Yes/No	Yes
Page Edge Filler (Automatic Page Size Detection) "Section 8.9"	Fill the end sections of a specified-mm-wide with white when the paper size is automati- cally detected. The end sections of a specified-mm-wide are filled with white.	Top/Left/Right/Bottom: 0 to 7.5mm (can be set in incre- ments of 0.5mm)	Top/Bottom/ Left/Right: 0mm
		(A: Image area B: Filled area A+B: Area to be output)	
Document check area specifica-	nt checkSelected range: This is checked to make fol- lowing checking area specification effective.Selected range		Not checked
tion for Multifeed Detection "Section 8.4"	Enable/Disable: Specifies whether left/mid- dle/right each ultrasonic sensor is enabled or disabled.	Enable/Disable	Invalid
	Start: The start point of the check area in length (mm) from top edge of the document is specified.	0 to 510 mm, with 2 mm incre- ment	0 mm
	End: The end point of the check area in length (mm) from top edge of the document is specified.	0 to 510 mm, with 2 mm incre- ment	0 mm
Intelligent Multi- feed Function "Section 8.10" "Section 3.12"	When a fixed size of paper is pasted on the same location in multiple sheets, the scanner can memorize the size and location of the pasted paper so it will not be detected as a multifeed. To use this function, you need to select [Check Overlapping] as the multifeed setting by the procedure described in "Section 3.7" or "Section 8.4" in advance.	Manual mode/Auto mode 1/ Auto mode 2	Manual mode
	Specify whether or not to remember the multifeed pattern at power-off.	Remember/Do not remember	Do not remember
Number of paper feeding retries "Section 8.11"	This is specified to decrease picking retry times for earlier jam detection.	1 to 12 times 12 time	

Item	Explanation	Selectable parameter	Default
Retain current paper thickness "Section 8.12"	The Paper thickness setting on the Operator panel is memorized and displayed after turn- ing off and on the power.	Remember/Do not remember	Do not remember
Cleaning Cycle "Section 8.13"	The cleaning cycle of the scanner is speci- fied by this setting. When Page counter (Consumable counter) exceeds the value specified here, the background color of the counter becomes yellow, and the message to ask user to clean the scanner may appear.	1,000 to 255,000 sheets,with 1,000 sheets increment Show cleaning instructions: Yes/No	10,000 sheets No
Life Counter Alarm Setting "Section 8.14"	When the Page counter (Consumable coun- ter) described in Section 5.2 exceeds the value specified here, the counter background color becomes yellow.	For each consumable 10,000 to 2,550,000 with 10,000 increment	600,000 sheets
Set the interval for feeding sheets "Section 8.15"	If the document is skewed and a section of the scanned image will be cut off, Automatic Page Size Detection automatically selects a page size to ensure that all the image is scanned successfully. As a result, scanning time may take longer due to the page size selected.	4 steps from Short (Default) to Long	Short
Thin Paper Mode "Section 8.16"	To scan thin paper documents, enable this mode.	Disable/Thin paper mode/ Super-thin paper mode	Disable
Soft Pick Setting "Section 8.17"	When a number of sheets are picked at a time and multi-feed is detected frequently, this setting may be effective.	Enable/Disable	Disable
Paper jam detec- tion "Section 8.18"	Specify the degree of jam detection at the feeder.	Normal/Sensitivity-Low	Sensitivity- Low
AutoCrop Bound- ary "Section 8.19"	Specify the AutoCrop Boundary processing for when "Automatic Page Size Detection" is selected.	Round Up/Round Down/Opti- mize	Round Down
SCSI Bus Width "Section 8.20"	Specify the data transfer width for SCSI connection.	16 bit (Wide)/8 bit	16 bit (Wide)
Auto color Detec- tion "Section 8.21"	Specify the slice level for automatically detecting Color/Monochrome	1 to 255 (steps)	5
Alarm setting "Section 8.22"	For the beeper to sound the alarm of a paper jam or multifeed, select Alarm at error.	Disable alarm/Enable alarm	Disable alarm
Jam detection outside of scan- nable area when transporting paper "Section 8.23"	By selecting "Enable", such a case in which the document is fed outside the scannable area due to abnormal skew can be judged as a paper jam.	Enable/Disable	Disable
Imprinter selec- tion "Section 8.24"	Select the Pre-imprinter option or the Post- imprinter option if you have installed the options (to be purchased separately).	Normal (obey Host specifica- tion)/Forcibly select Pre- imprinter/Forcibly select Post- imprinter	Normal (obey Host specifica- tion)

Item	Explanation	Selectable parameter	Default
Timeout for man- ual feeding "Section 8.25"	Specify the standby time period. After the predetermined time period has elapsed, manual feeding mode is canceled.	5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 180, 240, 300, 360, 420, 480, 540, 600, 900, 1200, 1800, 1999 (seconds)	10 seconds
Scan Setting for Document with Tab(Automatic Page Size Detec- tion) "Section 8.26"	When the document has tab on the bottom edge of the image, the tab image remains even if the document is scanned with Automatic Page Size Detection. When "Tab-attached document" is specified, the tab image remains in the scanned data but the scanning speed may be rather slow.	Document with tab/Document without tab	Document without tab
Paper stop posi- tion at multifeed error "Section 8.27"	When a multifeed error is detected by over- lapping of documents, the position to stop the documents on which the multifeed occurred can be selected.	Normal / Paper output slot	Normal
Overscan Control "Section 8.28"	Specify the optimal amount of black mar- gins for overscan.	Normal / Optimize	Normal

[Default] button

Resets the current settings to the factory setting.

[Save]button

Saves contents of various settings onto the computer.

(Use this button to apply the same settings to other fi-5950 scanners.)



Saving outputs the EEPROM value currently written in the scanner. Click the [Apply] button first if you have changed the value immediately before saving.

[Restore] button

Restores contents of the settings saved onto the computer back to the scanner.

8.2 Power saving setting

When not using this scanner for a certain time, it will enter automatically the power saving mode.

Configure the Power saving mode as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting] from left side list in the window.

TSU Software Operation Danel	
ISU Software Operation Panel	
Diagnosis	
- Devise Information	- Page Counter
Device Setting	Taylo Counter
Device Jexing 2	Total Page Count(ADF): T00400 pages
Multifeed	pages
 Multifeed detection when scanning in manual feeding mode 	After cleaning: 0 pages Clear(1)
Page Edge Filler (ADF)	FEEDD starts Class(2)
Dropout color	Brake Roller: pages Liear(2)
Pre-Pick	Pick Roller: 55500 pages Clear(3)
Page Edge Filler (Automatic Page Size Detection)	Separator Boller: 55500 pages Clear(4)
 Document check area specification for Multifeed Detection 	
Intelligent Multireed Function	Pad:
Number of paper reeding retries	pages
Hetain current paper thickness	Pompining lok (Post) 100 % Clear(6)
Lie Counter Alarm Satting	Hemaning mix (r usi).
Set the interval for feeding sheets	% Llear(<u>/</u>)
Thin Paper Mode	Demonstration
Soft Pick Setting	Power saving:
Paper iam detection	15 minutes
AutoCrop Boundary	
SCSI Bus Width	0// 1
Auto color Detection	Unset
Alarm setting	
Jam detection outside of scannable area when transporting paper	
Imprinter selection	
 Timeout for manual feeding 	
 Scan Setting for Document with Tab (Automatic Page Size Detection) 	
Paper stop position at multifeed error	
Overscan Control	

3. Use the slide control bar to set the waiting time before entering the power saving mode.

Setting range 15 - 55 minutes. (Set in steps of 5 minutes)

8.3 Offset/Scan scale

When the position of the scanned image is not correct or the image is elongated, use the following procedure to adjust the Offset and the Scan scale for correction.



1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting] from left side list in the window, and press [Offset...].

- Diagnosis				
Device Info	Dana Country			
Device Setting	Fage Counter.	105400		
Device Sexing 2	Total Page Count(ADF):	105430	pages	
Multifeed			pages	
 Multifeed detection when scanning in manual feeding mode 	After cleaning:	0	Dages	Clear(1)
Page Edge Filler (ADF)	Arter cleaning.		pages	cicai
Dropout color	Brake Roller:	55500	pages	Clear(2)
- Pre-Pick	Pick Roller:	55500	pages	Clear(3)
 Page Edge Filler (Automatic Page Size Detection) 		55500		Clear(4)
 Document check area specification for Multifeed Detection 	Separator Holler:	33300	pages	Cical(4)
 Intelligent Multifeed Function 	Pad:	55500	pages	Clear(5)
 Number of paper feeding retries 		<u> </u>	pages	
Retain current paper thickness		100		e
···· Cleaning Cycle	Remaining Ink (Post):	100	%	Llear(b)
Life Counter Alarm Setting				Clear(7)
Set the interval for feeding sheets		,		
I hin Paper Mode	Power saving:			
Soft Pick Setting				
Paper jam detection			15	minutes
AutoLrop Boundary				
SUSI Bus Width			(Offset
Auto color Detection			_	
Alarm setting				
Jam detection outside or scannable area when transporting paper				
Timonal for manual fooding				
- Scan Satting for Document with Tab (Automatic Page Size Dataction)				
Paper stop position at multifeed error				
Contraction of managed diffe				

3.	Adjust the	Offset/Scan	scale as	necessary.
----	------------	--------------------	----------	------------

Offset 🛛 🗙
Offset Setting:
<u>Unit</u> ADF(front) ▼ <u>M</u> ain: 0÷ x0.5mm
Sub: 0 → x0.5mm
Vertical magnification Adjustment
Unit: ADF
-6.3% 6.3% (-6.3% - 6.3%)
OK Cancel

Offset Setting

Unit:	Select ADF front or ADF back as target.
Main:	Adjusts the horizontal Offset. Setting range -2mm to +3mm, in steps of 0.5mm.
Sub:	Adjusts the vertical Offset. Setting range -2mm to +3mm, in steps of 0.5mm.

Vertical magnification Adjustment	
Unit:	Select ADF front or ADF back as target.
-6.3%/6.3%:	Adjusts the vertical (document length) Scan scale. Setting range -6.3% to $+6.3\%$, in steps of 0.1%.

8.4 Multifeed Detection

Multifeed refers to the phenomenon, when two or more documents are fed overlapping at once into the scanner.

This may cause the loss of important data.

To prevent this, this scanner is equipped with a Multifeed detection function.

When function is activated, a message will be displayed and the scanning interrupted in case a Multifeed has been detected.

Configure the settings for the Multifeed detection as follows.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Multifeed] from its lower level.

Diagnosis Device fution Provice Setting 2 Mutures preclom when scanning in manual leading mode Prograd color Propost color Pro-Pick Pro-Pick Pro-Pick Pro-Pick Pro-Pick Occument check area specification for Multited Detection Intelleter Intelleter Occument check area specification for Multited Detection Intelleter Occument check area specification for Multited Detection Intelleter Cleaning Cycle Cleaning Cycle Get the interval for feeding stelets Thin Paper Mode Soft Pick Setting Paper jam detection Audro Color Detection Audro Color Detection Autor color Detection Autor color Detection Autor color Detection Autor color Detection Mam setting - and celection out for form	FUJITSU Software Operation Panel	
Introduction manual recentry Introduction manual recentry Scan Stelling for Document with Tab (Automatic Page Size Detection) Paper stop position at multifieed error Overscan Control	Diagnosis Device Info Device Setting	 None Check Overlapping(Ultrasonic) Check Length Check Overlapping and Length Length 10 mm

3. Select the detection method.

None	:	No Multifeed detection will be performed.
Check Overlapping (Ultrasonic)	:	 Document overlapping will be monitored. When this method is slected, two more options are available specified by other sections. Multifeed detection areas can be narrowed separately for left/middle/right Ultrasonic sensors to avoid unintensional multifeed detection of sticked photogragh or something on the document. To specify this, go to Step 4. If photogragh or something is sticked on the document and its size and/or position are same, you can easily let the scanner memorize its size and/or position just scanning those document. To use this function, go to Section "8.10 Intelligent Multifeed Function" or Section "3.12 Not detecting Multifeed for fixed format".
Check Length:	:	The difference of the documents length will be monitored.
Check Overlapping and Length	:	[Check Overlapping] and [Check Length], both parameters will be used for monitor- ing the fed documents.

Length	: When checking the document length, select the length difference for which a Multi- feed will be detected. Select $10/15/20$ mm. If the detected document length is smaller than the selected size, it will be recognized as a Multifeed.
ATTENTION	 When scanning documents of different length together in the same stack, select [Checking Overlapping]. If something is glued to the documents (stamps, memo or photos), they will be recognized as Multifeed when using [Checking Overlapping]. When scanning such documents, use [Checking Length] instead. However, when using the [detection area/none-detection area] function, you can also use [Checking Overlapping]. The setting above can be done as well on the scanner driver configuration window. (In this case, the scanner driver selection will have priority)

Following setting is available only when [Check Overlapping] is specified above.

4. Select [Device Setting 2] from left side list in the window, and select [Document check area specification for Multifeed Detection] from its lower level.



5. Speficy the detection area.

Selected range: Add check mark to this checkbox first. The following setting becomes available.



Enable/Disable	: Select [Enable], if the area from [Start] to [End] is a Multifeed detection area. Select [Disable], if the area from [Start] to [End] is not a Multifeed detection area, but other area is a Multifeed detection area.
Start	 You can specify the starting position of the selected range by the length from the edge of the paper document. Range: 0 to 510mm, in increments of 2mm, Start position
End	: You can specify the ending position of the selected range by the length from the edge of the paper document. Range: 0 to 510mm, in increments of 2mm, Start position <end position<="" td=""></end>

 "Disable" and set "Start" to 0 (zero), while choosing a value greater or equal than the document length for "End". If "Start" is set to a value beyond the size of a document, the detection area is as follows: When "Disable" is selected: The whole area of the document is the detection area. When "Enable" is selected: Multi feed detection is disabled. For the multi feed detection, it is necessary to specify the range for the length to at least 5 mm. Please perform the setting for the detection area so, that following condition is met: ["End:" position] - ["Start:" Position] ≥ 6mm You can also specify the check area by the following other methods. By dragging the mouse on the setting area window to create rectangular
-By moving the edge grip at Start or End in the setting area

Setting Example 1:

• •

Left, Disable, Start=50 mm, End=200 mm Middle, Enable, Start=50 mm, End=200 mm Right, Disable, Start=50 mm, End=200 mm



Setting Example 2:

Left, Disable, Start=0 mm, End=300 mm Middle, Enable, Start=0 mm, End=0 mm Right, Disable, Start=0 mm, End=0 mm



When you want to detect overlapping, be sure that paper documents are not clinging to each other. Those clinging documents (glued or with static cling) may cause a lower multifeed-detection ratio.

Setting Example 3 (showing a setting which should not be done):

Left, Disable, Start=310 mm, End=400 mm Middle, Enable, Start=320 mm, End=450 mm Right, Enable, Start=100 mm, End=102 mm

• •



* Since the range for the detection area (length) on the right does not meet 5mm, the multifeed detection cannot be performed correctly.

8.5 Multifeed detection when scanning in manual feed mode

Set whether to detect multifeed during manual feed mode or not.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Multifeed detection when scanning in manual feeding mode] from its lower level.

Diagnosis	
- Device Info	
Device Setting	 Disable
Device Setting 2	
Multifeed detection when economics in manual feeding mode	C Follow driver settings
e wullieeu delection when scanning in manual reeding mode	
- Propert color	
Pre-Pick	
- Page Edge Filler (Automatic Page Size Detection)	
 Document check area specification for Multifeed Detection 	
Intelligent Multifeed Function	
- Number of paper feeding retries	
Retain current paper thickness	
Cleaning Cycle	
Life Counter Alarm Setting	
 Set the interval for feeding sheets 	
···· Thin Paper Mode	
- Soft Pick Setting	
- Paper jam detection	
AutoCrop Boundary	
SCSI Bus Width	
- Auto color Detection	
Alarm setting	
Jam detection outside of scannable area when transporting paper	
Timonut for many all feeding	
- Scan Setting for Document with Tab (Automatic Page Size Detection)	
Paper stop position at multifeed error	
- Dverscap Control	

3. Select one of the following option.

Disable : Does not detect multifeed at manual feed mode. Follow driver settings : Multifeed detection is valid only when device driver allows multifeed detection.

8.6 Page Edge Filler (ADF)

Depending on the state of the documents, the shadow of the scanned document appears in the end portion of the output image and black thin lines may be generated.

If this is the case, you can improve the output image by using the "Page Edge Filler" function. This function fills the end portion of the image so that it looks clean.

Configure the settings for the Page Edge Filler as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Page Edge Filter (ADF)] from its lower level.

Diagnosis Device Setting 2 Device Setting 2 Provide Setting 2 Prov	Left D + mm Bottom D + mm
--	---------------------------------------

3. Specify the length for each end section; top, bottom, right, and left, to fill the end sections.



The specified areas are filled with white when the backing (background) is white, and with black when the backing is black.


8

8.7 Dropout Color

By using the "Dropout Color" function, you can scan documents with the specified color removed from the light's three primary colors, or red, green, blue.

(This function is available for the binary black and white setting as well as the grayscale setting.) For example, you can scan only the black part of letters when scanning the document containing black letters each with a green frame.

Configure the settings for the Dropout Color as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Dropout Color] from its lower level.

Diagnosis Device Info Device Setting 2 Instructed Multired detection when scanning in manual feeding mode Advanced Multired detection when scanning in manual feeding mode Advanced Multired detection (ADF) Proposition Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multired Detection Intelligent Multired Function Number of page feeding retries Retain current paget Hickness Cleaning Cycle Life Counter Alarm Setting Set the interval for feeding sheets Thin Paget Mode Soft Pick Setting	 ○ Red ○ Green ○ Blue ○ None 	
Paper jam detection AutoCrop Boundary SCSI Bus Width Auto color Detection Auto color Detection Jam detection outside of scannable area when transporting paper Jam detection outside of scannable area when transporting paper Immout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifeed error Diversion Control		

3. Select a color to drop out.

Red, Green, Blue: Red, green, or blue is dropped out. None: No dropout occurs.



8.8 Pre-Pick

To scan documents consecutively, you can previously pick the document to be scanned next. This operation is called Pre-Pick.

By enabling Pre-Pick, the time interval between the scanning of two separate documents can be shortened.

Configure the settings for the Pre-Pick as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Pre-Pick] from its lower level.



3. Select "Yes" or "No" for Pre-Pick.

Select "Yes" to make Pre-pick valid, and select "No" to make it invalid.



8.9 Page Edge Filler (Automatic Page Size Detection)

When the scanner is set to detect paper size automatically, depending on the state of the documents, the black frame may be generated on the output image.

If this is the case, you can improve the output image by using the "Page Edge Filler (Automatic Page Size Detection)" function. This function fills the end portion of the image with white so that it looks clean.

Configure the settings for "Page Edge Filler (Automatic Page Size Detection)" as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Page Edge Filter (Automatic Page Size Detection)] from its lower level.



3. Specify the Top, Bottom, Right, and Left widths to fill.







8.10 Intelligent Multifeed Function

When a fixed size of paper is pasted on the same location in multiple sheets, the scanner can memorize the size and location of the pasted paper so it will not be detected as a multifeed. To use this function, you need to select [Check Overlapping] as the multifeed setting by the procedure described in "Section 3.7" or "Section 8.4" in advance.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Intelligent Multifeed Function] from its lower lebel.

FUJITSU Software Operation Panel	
FUJITSU Software Operation Panel Diagnosis Device Info Covice Setting 2 Matureed Matureed Matureed	 Manual mode (Bypass by front panel button)
Multed Declarity of ADF Scatting in marked reduing induce Page Edge Filler (ADF) Dropout color Pre-Pick Page Edge Filler (Automatic Page Size Detection) Page Edge Filler (Automatic Page Size Detection) (Intelligent Multifeed Function) Tomore or page reduing refiels Retain current pager thickness Clearing Cycle	Bypass by combination of length and position) C Auto mode 2 Bypass by length) C Clear overlap pattern Enable Scan button (VRS) Enable
Life Courter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Fick Setting Paper jim detection AutoCore Boundary SCSI Bus Width Auto color Detection Alam setting Jam detection outlide of scannable area when transporting paper Imprinter selection Timeout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multileed error Overscan Control	Remember multifieed pattern at power-off
	OK Cancel Apply (A)

3. Select one of the following option and press [OK]. Refer to Section 3.11 for subsequent proceduers.

- Manual mode : Scanner detects multifeed and stops document feeding. User can specify whether to bypass the multifeed or not, and starts scanning by pressing [Scan] button.
- Auto mode 1 : Scanner detects multifeed and stops document feeding. The length and position of the sticked paper is memorized by restarting the scanning. Multifeed is bypassed, if the same-length paper is sticked at the same position on the document.
- Auto mode 2 : Scanner detects multifeed and stops document feeding. The length of the sticked paper is memorized by restarting the scanning. Multifeed is bypassed, if the sticked paper is same or smaller than memorized length.

4. Specify whether or not to remember the multifeed pattern at power-off under [Remember multifeed pattern at power-off].

Selecting [Remember] allows you to use the last-remembered multifeed pattern before poweroff. (Eight patterns can be memorized at power-off.)

8.11 Paper feeding retry times

This is specified to decrease feeding (picking) retry times to detect jam earlier.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Number of paper feeding retries] from its lower level.



3. Specify retry times from 1 to 12.

8.12 Retaining current paper thickness after Power off

The Paper thickness setting on the Operator panel is memorized and displayed after turning off and on the power.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Retain current paper thickness] from its lower level.

FULITSU Software Operation Panel	
roorroo oortmare o peranon ranor	
Diagnosis	
- Device Into	
Device California	C Remember
e Device Seturig 2	
Multifeed detection when scanning in manual feeding mode	Do not remember
Page Edge Filler (ADE)	
- Dropout color	
Pre-Pick	
Page Edge Filler (Automatic Page Size Detection)	
- Document check area specification for Multifeed Detection	
- Intelligent Multifeed Function	
Mumber of poper foorling ration	
 Retain current paper thickness 	
cleaning cycle	
Life Counter Alarm Setting	
 Set the interval for feeding sheets 	
Thin Paper Mode	
Soft Pick Setting	
Paper jam detection	
CCCI Due to Galle	
- Suto color Detection	
Allor setting	
Jam detection outside of scannable area when transporting paper	
Imprinter selection	
- Timeout for manual feeding	
- Paper stop position at multifeed error	
Overscan Control	
	OK Cancel Apply (A)

3. Specify whether to remember the setting or not.

If [Remember] is specified, the paper thickness setting at power off is used at next power on.

8.13 Cleaning Cycle

The cleaning cycle of the scanner is specified by this setting. When Page counter (Consumable counter) exceeds the value specified here, the background color of the counter in the window on page 124 becomes yellow, and the message to ask user to clean the scanner may appear as described in Section "5.2 How to check and reset the Consumable/Cleaning Counter" on page 121.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Cleaning Cycle] from its lower level.

FUJITSU Software Operation Panel	
Diagnosis Device Info Device Setting 2 Market Setting 2 Market Setting 2 Page Edge Filler (AUF) Dropout color Perfolk Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multifeed Function Number of pager feeding retries Ratio nument check area specification for Multifeed Detection Intelligent Multifeed Function Number of pager feeding retries Ratio nument check area specification for Multifeed Detection Set the interval for feeding sheets Thin Pager Mode Soft Fick Setting Pager Edge Boundary SCSI Bux Width Auto color Detection Auto color Detection Alarm setting Jam detection outside of scarmable area when transporting paper Imprinter selection Timp are storp position at multified et orc Scan Setting for Document with Tab (Automatic Page Size Detection) Page stop position at multified et orc	Cleaning Cycle 10 📩 x1000
	OK Cancel Apply (A)

3. Specify the cleaning cycle to change the background color for each consumable.

Setting is available from 1,000 to 255,000 with 1,000 increment. Default is 10,000. Also, specify whether to display the message to ask operator clean the scanner.

8.14 Life counter setting

This counter specifies the page count to ask operator to replace the consumable. When the page count exceeds the value specified here, the background color of the counter in the window on page 124 becomes yellow, or replacement message window on page 124 appears.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Life Counter Alarm Setting] from its lower level.

FUJTISU Software Operation Panel	Pick Rollers Brake Rollers Pad Separator Rollers	60 4 ×10000 60 4 ×10000 60 4 ×10000 60 4 ×10000 60 4 ×10000
Imprinter selection Timeout for unal feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multified error Overscan Control		

3. Specify the counter value to change its color for each consumable (Pick roller, Brake roller, Separartion pad, separator roller).

Setting is available from 10,000 to 2,550,000 with 10,000 increment.

8.15 Document clearance setting

Scanned image may be chipped at the bottom area, if the document is fed with large skew. This trouble can be avoided by setting the document clearance wider.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Set the interval for feeding sheets] from its lower level.

FILITSI Software Operation Pagel	
FUJITSU Software Operation Panel	Short Long
Initr'aperindoz Soft Pick Setting Paper isin detection AutoCrop Bounday SCSI Bue Wridh Auto color Detection Alam setting Jam detection outside of scannable area when transporting paper Imprivar selection Timeout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifeed error Diverscan Control	
	OK Cancel Apply (A)

3. Select a document clearance from 4 steps from Short (Default) to Long.

8.16 Thin Paper Mode

If nonstandard thin paper cannot be fed and scanned smoothly, use this mode. In this mode, sheets of paper are fed at a slower speed so that thin paper can be fed and scanned properly.

Follow the steps below to switch to the Thin Mode.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Thin Paper Mode] from its lower level.

Diagnosis Device Info	© Ditable
Diagnosis Device Info	
Device Setting 2 However Multited detection when scanning in manual feeding mode Page Edge File (ADF) Dropout color Pre-Pick Page Edge File (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multiteed Invotion Number of pager feeding refines Retain current pager (finding refines SCS) Bus Width Auto color Detection Jam detection outside of scannable area when transporting pager Imprimer selection Timeout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Pager stop position at multiteed error	C Thin paper mode
	OK Cancel Apply (A)

3. Select one of the following option.

Disable	: For the document described in the Document specification.
Thin paper mode	: For the thin document than described in the Document specification.
Super-thin paper mode	: For very thin document rather than the Thin paper above.



8.17 Soft Pick Setting

When a number of sheets are picked at a time and multi-feed is detected frequently, enable this setting. When this setting is enabled, the pick roller does not move up and down at the paper picking to decrease the number of sheets at picking, and multi-feed may decrease.

This setting may be effective for the document in small size.



1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Soft Pick Setting] from its lower level.

Diagnosis Device Info Device Setting 2 Multitude detection when scanning in manual feeding mode − Page Eder Filde (ADF) − Dropout color − Pre-Pick	← Enable ◆ Disable
Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multified Detection Intelligent Multified Function Number of paper feeding retries Detemport Careford Page Page Page Page Detemport Careford Page Page Page Detemport Page Page Page Page Detemport Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Page Detemport Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Page Detemport Page Page Page Page Detemport Page Page Page Page Page Page Detemport Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Detemport Page Page Page Page Page Page Detemport Page Page Page Page Page Page Page Detemport Page Page Page Page Page Page Page Page	
Bott Pick Settrop AutoCrop Boundary SCSI Bus Width Auto color Detection Alarm setting - an detection outlide of scannable area when transporting paper terriferent learning	
Imprired selection Timeout for manual feeding Scan Setting for Document with Tab (Automatic Page Size Detection) Paper stop position at multifieed error Durance Central	

3. Specify whether to enable or disable Soft Pick Setting.

Default is "Disable".

8.18 Paper Jam Detection

You can set the degree of detection sensitivity for a jam at the feeder.

Configure the settings for Paper Jam Detection as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Paper jam detection] from its lower level.

FUJITSU Software Operation Panel	
- Diagnosis	
- Device Info	
	C Normal
- Device Setting 2	
	Sensitivity-Low
 Multifeed detection when scanning in manual feeding mode 	
Page Edge Filler (ADF)	
Pre-Pick	
- Page Edge Filler (Automatic Page Size Detection)	
Document check area specification for Multifeed Detection	
Intelligent Multifeed Function	
Number of paper feeding retries	
 Retain current paper thickness 	
Cleaning Cycle	
- Life Counter Alarm Setting	
 Set the interval for feeding sheets 	
··· Thin Paper Mode	
Paper jam detection	
CCCL Dury by Gally	
Auto cala: Detection	
Auto color Detection	
- Jam detection outside of scannable area when transporting paper	
Imprinter selection	
Timeout for manual feeding	
Scan Setting for Document with Tab (Automatic Page Size Detection)	
 Paper stop position at multifeed error 	
Bverscan Control	
	OK Cancel Apply (Å)

3. Set the degree of detection sensitivity for a jam occurred at the feeder.

If you encounter frequent jams, set the setting to "Sensitivity-Low".



8.19 AutoCrop Boundary

Scanning documents using the "Automatic Page Size Detection" function may produce incomplete image data; the edge of the image data may be lost, or shadows may be produced on the bottom or right edge of the data. To prevent or improve such a problem, use this "AutoCrop Boundary."

Configure the settings for the AutoCrop Boundary as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [AutoCrop Boundary] from its lower level.

Diagnosis Device Info Povice Setting 2 Device Setting 2 Device Setting 2 Multived detection when scanning in manual (seeling mode — Multived detection when scanning in manual (seeling mode — Page Edge Filler (ADF) — Dropout color — Page Edge Filler (ADF) — Dropout color — Pre-Pick — Page Edge Filler (Multived Page Size Detection) — Document check area specification for Multived Detection — Intelligent Multired function — Number of paper feeding retries — Retain current paper thickness — Document check area specification for Multived Detection — Intelligent Multired function — Number of paper feeding retries — Retain current paper thickness — Document check stating — Set the interval for feeding retries — Soft Rick Setting — Auto color Detection — Auto color Detection — Inspiret reselection — Immount or Detection — Immount for manual (seeding — San Setting Or Document with Tab (Automatic Page Size Detection) — Reper stop position at multifeed error — Dure stop Formotel	 Round Up Round Down Optimize
--	--

3. To prevent the output image from chipping during AutoCrop Boundary processing, select "Round Up", and select "Round Down" to delete unnecessary details.

To prevent the marginal data from being lost or minimize shadows on the bottom or right edge of the data during the AutoCrop Boundary processing, select [Optimize].



8.20 SCSI Bus Width

When using the SCSI-connected scanner, you can select a data transfer width.



Configure the settings for the SCSI Bus Width as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [SCSI Bus Width] from its lower level.

3. Select either 16 bit or 8 bit.



8.21 Auto Color Detection

You can adjust the slice level for auto color detection.

Configure the settings for the Auto Color Detection as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Auto color Detection] from its lower level.

- Diagnosis			
- Device Info			
Device Cetting	Slice	는 이	
Device Setting 2			
Multifeed detection when seeming in manual feeding mode			
Page Edge Filler (ADE)			
Dropout color			
Page Edge Filler (Automatic Page Size Detection)			
Number of paper feeding retries			
- Batain current paper thickness			
- Cleaning Fucle			
Life Counter Alarm Setting			
Set the interval for feeding sheets			
Soft Pick Setting			
- Paper iam detection			
AutoCrop Boundary			
CCCL D			
Auto color Detection			
Jam detection outside of scannable area when transporting paper			
Imprinter selection			
Timeout for manual feeding			
Scan Setting for Document with Tab (Automatic Page Size Detection)			
Paner stop position at multifeed error			
Russean Centrel			

3. Select the Slice value.

You can select the Slice value from 1 to 255 (255 levels). In the case that black and white documents are judged as color documents, select larger values. In the case that color documents are judged as black and white, select smaller values.



The auto color detection setting can be configured on the scanner driver setting window.

For details on how to set the setting, refer to "3.11 Color/monochrome Auto Detection" on page 92.

8.22 Alarm Setting

You can make the alarm to sound beeps when a jam or multifeed occurs, as well as disabling the alarm.

Configure the settings for the Alarm setting as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Alarm setting] from its lower level.

FUJITSU Software Operation Panel	
Diagnosis Device Info Device Setting 2 Matticed Properties Properties Properties Properties Properties Retain current paper thickness Clearing Cycle Life Counter Alam Setting Sett Interval for reforg sheets Thin Paper Mode Soft Problement Soft Problement MattoClop Brandary SSIS Bus Width Matrice delection Matrice Mattice Matrice Balance Matrice Balance Matrice Balance Matrice Balance Matrice Balance Soft Problement	 C Enable alarm C Enable alarm
Paper stop position at multifeed error Overscan Control	
	OK Cancel Apply (A)

3. Select "Enable alarm" to sound beeps when a jam or multifeed occurs. Select "Disable alarm" to disable the alarm.

8.23 Jam Detection Outside of Scannable Area When Transporting paper

If this function is turned On, such a case, in which the documents are fed outside of the scannable area due to over-skew, is judged as a jam. You can turn it On and Off.

Configure the settings for the Jam detection outside of scannable area when transporting paper as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Jam detection outside of scannable area when transporting paper] from its lower level.



3. Select "Enable" to judge such a scan as a jam, and select "Disable" not to judge it as a jam.

8.24 Imprinter Selection

You can specify which imprinter to use; Pre-imprinter or Post-imprinter, if you already have installed these options.

Configure the settings for the Imprinter Selection as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Imprinter selection] from its lower level.

FUJITSU Software Operation Panel	
Diagnosis Device Info Device Setting 2 Multiced detection when scanning in manual feeding mode Page Edge Filler (AUF) Dropout color Pre-Fick Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelliger Multifeed Function Number of pager feeding retries Retrievent check area specification	Normal (obey Host specification) Forcibly select Pre-imprinter Forcibly select Post-imprinter
- Real Culture Logier of LK ress - Clearing Cycle Life Counter Alam Setting - Set the interval for feeding sheets - Thin Paper Mode - Soft Pick Setting - Paper in detection - AutoCorp Boundary - SCSI Bus Width - Auto coll Detection - Alam setting - Alam setting	
Incontrate relaction Transact on manage defing Scan Setting for Document with Tab (Automatic Page Size Detection) Pager stop position at multifieed error Overscan Control	DK Cancel Apply (<u>A</u>)

3. Select the Imprinter to use.

Normal (obey Host specification) :Complies with the scanner driver setting.Forcibly select Pre-imprinter:Pre-imprinter is forcibly used to print unless directed by
the scanner driver.Forcibly select Post-imprinter:Post-imprinter is forcibly used to print unless directed by
the scanner driver.



8.25 Timeout for Manual Feeding

In manual feeding mode, if the scanner is left without loading the next document to scan for an extended time period, the scanner completes the scanning once and cancel the manual feeding mode. The time period is called "timeout".

Configure the settings for the Timeout for Manual as follows:

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Timeout for manual feeding] from its lower level.

Diagnosis Device Info Device Info Device Setting 2 Multireed detection when scanning in manual feeding mode Page Edge Filer (Automatic Page Size Detection) Document check area specification for Multireed Detection Intelligent Multireed Function Number of paper fleading retiles Retain current paper thickness Clearing Cycle Life Counter Alam Setting Set the Interval for feeding sheets Thin Paper Mode Sot Pick Setting Paper ign detection	Timeout for manual feeding	10 seconds 💌
Device Info Convectering 2 Notice Setting 2 Setting 1 Notice Setting 2 Setting 1 Setting 2 Setting 2	Timeout for manual feeding	10 seconds 💌
Device Setting 2 Multiveed Multiveed detection when scanning in manual feeding mode Page Edge Filer (ALOF) Dropout color Pre-Fick Page Edge Filer (ALUmatic Page Size Detection) Document check area specification for Multiveed Detection Intelligent Multived Function Number 0 paper feeding retires Retain current paper thickness Clearing Cycle Lie Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Fick Setting Paper jam detection AudoLop Boundagy SCSI Bue Width	Timeout for manual teeding	10 seconds 💽
Mutated Multited detection when scanning in manual feeding mode Page Edge Filler (ADF) Propout color ProePick Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multited Detection Intelligent Multited Function Number of page feding retries Retain current page thickness Cleaning Cycle Life Counter Alam Setting Settie Trieval for deeding sheets Thin Pager Mode Soft Pick Setting Pager jam detection - AutoCop Bounday SCSI Bue Width		
Multited detector when scanning in manual teeding mode Page Edge Filler (AUF) Oropout color Pre-Pick Page Edge Filler (Automatic Page Size Detection) Occument check area specification for Multited Detection Intelligent Multited Function Number of page feeding retries Petrin current page thickness Cleaning Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Rick Setting Paper jam detection AutoCrop Boundary SCSI Bus Width		
Page Edge Hier (AUP) F Dropout color Page Edge Filer (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multifeed Function Number of pager feeding retries Retain currert pager thickness Clearing Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Pager Mode Soft Pierk Setting Pager jam detection AutOcop Doundayy SCSI Buo Width		
Dropout color Pre-Priot Page Tdgs Filer (Automatic Page Size Detection) Document check area specification for Multifeed Detection Intelligent Multifeed Function Number of pager feeding retries Retain current pager thickness Clearning Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Pager Mode Soft Pick Setting Pager jam detection AutoCorp Boundary SCI Bus Width		
Pre-Prick Page Edge Filler (Automatic Page Size Detection) Document check area specification for Multifeed Detection Inteligent Multifeed Function Number of paper feeding retries Retain current page theckness Clearing Cycle Life Counter Alam Setting Set the interval for feeding shets Thin Paper Mode Soft Pick Setting Paper jam detection AutoCrop Boundagy SCSI Boux Width		
Page Edge Hele (Automatic Page Size Detection) Document check area specialization for Multifieed Detection Intelligent Multifieed Function Number of paper feeding retires Retain current paper thickness Clearning Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Pick Setting Paper jam detection AutoClop Boundary SCSI Bus Width		
Document Check area specification for Mutineed Detection Intelligent Mutilities of function Number of paper feeding retries Retain current paper trackness Dearing Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Pick Setting Paper jam detection AutoCop Boundary SCSI Bus Width		
Intelligent Multifeed runction Number of paper feeding retries Petain current paper thickness Clearing Cycle Lie Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Set Thick Setting Paper jain detection AutoCop Bounday SCSI Bus Width		
Number of paper feeding refines Retain current paper thickness Clearing Cycle Life Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Soft Dick Setting Paper jam detection AutoCrop Boundary SCSI Bus Width		
Hearin Current page Introduces Clearing Cycle Life Counter Alam Setting Set the Interval for feeding sheets Thin Paper Mode Soft Pick Setting Paper jam detection AutoCrop Bounday SCSI Buck Width		
Lie Counter Alam Setting Set the interval for feeding sheets Thin Paper Mode Set Thick Setting Paper jam detection AutoCop Boundary SCSI Bus Width		
Ene Counter Avaim serving Set the interval for feeding sheets Thin Paper Mode Soft Pick Setting Paper jam detection AutoClop Boundary SCSI Bus Width		
Set the fitter whole Thin Paper Mode Soft Pick Setting Paper jan detection AutoCop Boundary SCSI Bus Width		
Soft Finit Setting Paper jan detection AutoCop Boundary SCSI Bus Width		
- Paper jam detection - AutoCop Boundary - SCSI Bus Width		
- AutoCop Boundary - SCSI Bus Width		
SCSI Bus Width		
- Auto color Detection		
Alarm setting		
Jam detection outside of scannable area when transporting paper		
Timeout for manual feeding		
Scan Setting for Document with Tab (Automatic Page Size Detection)		
- Paper stop position at multifeed error		
Overscan Control		

3. Select the timeout period for manual feeding.

You can specify the timeout period by seconds. Scanning will be complete when the specified time period has elapsed after the last sheet of paper was loaded onto the Hopper.

Select a timeout period from the following:

5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 180, 240, 300, 360, 420, 480, 540, 600, 900, 1200, 1800, 1999 (seconds)



8.26 Scan Setting for Document with Tab

When the document has tab on the bottom edge of the image, the tab image remain even if the document is scanned with Automatic Page Size Detection. When "Scan Setting for Document with Tab" is specified, the tab image remains in the scanned data but the scanning speed may be rather slow.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Scan Setting for Document with Tab(Automatic Page Size Detection)] from its lower level.

FUJJTSU Software Operation Panel	 Cocument with tab C Document without tab
	OK Cancel Apply (A)

3. Specify whether the document is "Document with tab" or "Document without tab".

Default is "Document without tab".

 $\ensuremath{\operatorname{Fit}} \ensuremath{\operatorname{Fit}} \ens$

8.27 Paper Stop Position at Multifeed Error

When a multifeed error is detected by overlapping of documents, the position to stop the documents on which the multifeed occurred can be selected.

To configure this setting, [Check by overlapping (US sensor)] must be specified for multifeed detection ("8.4 Multifeed Detection" on page 190).

Configure the settings for Paper Stop Position at Multifeed Error as follows.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Paper stop position at multifeed error] from its lower level.



3. Select one of the following modes and click the [OK] button.

Normal

: Stops feeding when a multifeed error is detected by overlapping.

Paper output slot : Feeds the documents to the Paper output slot and stops when a multifeed error is detected by overlapping. This setting makes it easier to identify on which document a multifeed error occurred.

8.28 Overscan Control

Specify [Optimize] when you use Overscan and the image is partially missing due to an abnormal skew. You can detect abnormal image skew and set sufficient amount of black margins on the top and the bottom so that the whole image is contained.



Configure the settings for Overscan Control as follows.

1. Start up the Software Operation Panel.

Refer to "8.1 Scanner Settings" on page 173.

2. Select [Device Setting 2] from left side list in the window, and select [Overscan Control] from its lower level.



Select [Optimize]. • It is recommended to use Overscan together with "8.15 Document clearance setting" on page 207 (The scanning speed slows down when you select this function). • The scanning speed may slow down depending on the paper size of the documents you scan. • This setting does NOT appear when Kofax VRS is used. HIN. • When you scan using Overscan, specify a larger size than the actual document size and scan.

3.

8

OPTIONS

This chapter describes options for fi-5950.

9.1 Options	224
9.2 fi-590PRF (Pre-imprinter)	225
9.3 fi-590PRB (Post-imprinter)	226
9.4 Other Options	

The following lists options available for the scanner.

Name	Part No.	Description
fi-590PRF Pre-Imprinter	PA03450-D700	Prints an alphanumerical string on the document to be scanned. The printing is done <u>on the front side</u> of the document and <u>before</u> it is scanned. As a result, both the document and the generated image will bear the same string of your choice (name, date, serial num- ber etc.) for archiving.
fi-590PRB Post-Imprinter	PA03450-D710	Prints an alphanumerical string on the document scanned. The printing is done <u>on the back side</u> of the document and <u>after</u> it is scanned. Only the document will bear the string of your choice (name, date, serial number etc.).

For the details, contact FUJITSU scanner dealer where you purchased the scanner or FUJITSU group company responsible for your country.



9.2 fi-590PRF (Pre-imprinter)

fi-590PRF is installed at the front side of the Transport path, inside of the scanner. It prints prior to scanning. fi-590PRF (Pre-imprinter) specifications are described below.

Item	Descriptions			
Printing Method	Thermal Ink Jet			
Printable characters	Alphabet letters: A to Z, a to z Numeric characters: 0,1 to 9 Symbols: ! " # \$ % & ' () * + , / : ; <=>? @ [\]^_`{ }			
Maximum printable characters per line	43 characters			
Print Orientation	Normal: 0°, 180° (horizontal), 90°, 270° (vertical) Narrow: 0°, 180° (horizontal)			
Character size	Normal: Height 2.91mm × width 3.03mm / 0.1146 × 0.1193 in (horizontal) Height 3.03mm × width 2.91mm / 0.1193 × 0.1146 in (vertical) Narrow: Height 2.91mm × width 1.71mm / 0.1146 × 0.0673 in (horizontal)			
Character pitch	3.79mm / 0.1492in (Normal), 2.46mm /0.0968in (Narrow)			
Font Style	Regular, Bold			
Character Width	Normal, Narrow			
Printing area	Reference Point			
Printing Position Accu- racy	Vertical: ±4mm Horizontal: ±4mm			
Consumables	Print Cartridge			

As for the operations and functions of fi-590PRF (Pre-imprinter), refer to the fi-590PRF Operator's Guide attached to fi-590PRF.

9.3 fi-590PRB (Post-imprinter)

fi-590PRB is installed at the rear side of the Transport path, inside of the scanner. It prints after the scanning. fi-590PRB (Post-imprinter) Specifications are described below.

ltem	Descriptions			
Printing Method	Thermal Ink Jet			
Printable characters	Alphabet letters: A to Z, a to z Numeric characters: 0,1 to 9 Symbols: ! " # \$ % & ' () * + , / : ; <=>? @ [\]^_` { } ⁻			
Maximum printable char- acters per line	43 characters			
Print Orientation	Normal: 0°, 180° (horizontal), 90°, 270° (vertical) Narrow: 0°, 180° (horizontal)			
Character size	Normal: Height 2.91mm × width 3.03mm / 0.1146 × 0.1193 in (horizontal) Height 3.03mm × width 2.91mm / 0.1193 × 0.1146 in (vertical) Narrow: Height 2.91mm × width 1.71mm / 0.1146 × 0.0673 in (horizontal)			
Character pitch	3.79mm / 0.1492in (Normal), 2.46mm /0.0968in (Narrow)			
Font Style	Regular, Bold			
Character Width	Normal, Narrow			
Printing area	$\begin{array}{c c} 297 \\ \hline Head movable range \\ \hline Point \\ \hline Potential \\ \hline Potentia$			
Printing Position Accuracy	Vertical: ±4mm Horizontal: ±4mm			
Consumables	Print Cartridge			

As for the operations and functions of fi-590PRB (Post-imprinter), refer to the fi-590PRB Operator's Guide attached to fi-590PRB.

9.4 Other Options

Extended Memory

Increasing memory is an effective way to improve the scanner's processing speed when scanning at high resolutions. (For example, this may prevent the scanner from pausing when scanning double-sided color A3 documents at resolutions higher than 400 dpi).



- 1. Switch off the scanner's main power switch, unplug all connecting cables.
- 2. Unscrew the back cover of the scanner and take it off.



3. Insert the memory into the slot, and push down the module until it locks in position.



4. Put back the cover and tighten the screw.

The memory listed below is recommended. Two modules of the same specification must be installed at the same time.

The memory modules are not provided with the scanner.

Manufacturer	Model	Size			
Micron Technology	MT8LSDT3264HY-133D2	256MB			
ATTENTION WY The scanner may not function properly if two modules of different types are installed at the same time.					
You can confirm whether the memory modules are installed properly or not through the [Software Operation Panel]: Click the [Device Setting] tab and check the value of scanner memory under "Standard Information". (Default: 512MB)					

Memory type: 144-pin Unbuffered DODIMM

10 SCANNER SPECIFICATIONS

This chapter describes the Scanner Specifications.

10.1 Basic Product Specifications	230
10.2 Installation Specifications	232
10.3 Dimensions	233

10.1 Basic Product Specifications

1	Scanner Type		ADF (Automatic Document Feeder) and Manual feed		-	
2	Image sensor		Color CCD × 2		Front/Back	
3	Light source		Incandescent cold cathode fluorescent lamp		Front/Back	
4	Scanning area Minimum 53 mm × 74 mm, 2.1 in. × 2.9 in.		-			
		Maximum	304.8 × 431.8 mm, 12 × 17 in.		-	
5	Document thicknes	S	31 g/m ² to 209 g/m ²		(* 1)	
6	Scanning speed		Simplex ppm	Duplex ipm	(* 3) Grayscale, Color	
	(A4 Portrait) (* 2)	200 dpi	105	210	*	
	Binary (Black and White)	300 dpi	105	210		
	Grayscale	400 dpi	60	120		
	Color	600 dpi	30	60		
7	ADF capacity (* 4)		500 sheets		80 g/m ² (Hopper set to lower position)	
8	Optical resolution		600 dpi		-	
9	Output resolution	Binary (Black and White)	50 to 600 dpi		scalable in steps of 1 dpi	
		Grayscale	50 to 600 dpi			
		Color	50 to 600 dpi			
10	Grayscale level		8 bits for each	color	10 bits/color during internal processing	
11	Output mode of halftone patterns		Dither/Error diffusion		-	
12	Interface (* 5)		USB 2.0/1.1(* 6)		B type	
			Ultra Wide SCS	SI (* 7)	Shielded, 68 pin half density (High Density DB68)	
13	Other functions		JPEG compres	sion	-	
14	Option	Option Imprinter fi-590PRF/fi-590 PRB		(* 8)		

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 - SCANNER SPECIFICATIONS

- (* 1) For details, refer to "7.2 Document Quality" on page 159.
- (* 2) The scanning speed is the maximum speed of the scanner hardware. The actual speed may be slower due to the system overhead such as data transfer time.
- (* 3) With JPEG compression enabled
- (* 4) The maximum capacity varies depending on the document thickness. Refer to"7.3 Maximum Document Loading Capacity" on page 162.
- (* 5) The SCSI and USB interface cannot be used together.
- (* 6) When using USB 2.0, you have to use a port compatible to USB 2.0. When connecting to USB 1.1, the scanning speed will decrease.
- (* 7) Avoid connecting other SCSI devices to the same bus. It can reduce the scanner throughput.
- (* 8) You can imprint alphabetic characters and number on the scanned document. The fi-590PRF (pre-imprinter) will print prior to scanning on the front side of the document. The fi-590PRB (post-imprinter) will print after the scanning on the back side of the document.

You can install both the fi-590PRF and fi-590PRB, but you cannot use them at the same time.

10.2 Installation Specifications

Item		Specification			
Dimensions (With hopper and stacker retracted)		Depth	Width		Height
		540 mm, 21 in	540 mm, 21 in		500 mm, 20 in
Space requirements		600 mm (23.62 in) 200 mm (7.874 in) 5 Canner (7.874 in) 600 mm (23.62 in) 600 mm (23.62 in)			
Weight (kg)		50 kg (110.4lb)			
Input power	Voltage	AC100 - 240 V±10%			
	Phase	Single-phase			
	Frequency	50/60 Hz ±3Hz			
Power consumption		250 W or less			
Ambient condi- tion	Device status	Operating	Not ope		erating
	Temperature	15 to 35 degrees Celsius 59 to 95 degrees Fahrenheit		-20 to +60 degrees Celsius -4 to +140 degrees Fahrenheit	
	Humidity	20 - 80% 8 - 95%			
Heat capacity	Operating	216 kcal/Hr or less			
	Not operating	113 kcal/Hr or less			
	Power Saving	TWAIN/ISIS: 5.2 kcal/Hr or less VRSIF: 6.05 kcal/Hr or less			
Total Package Weight (kg)		70			
10.3 Dimensions









unit: mm

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fi-5950 Image Scanner Operator's Guide

P3PC-3052-01ENZ0

Issue date: June, 2010 Issueed by: PFU LIMITED

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