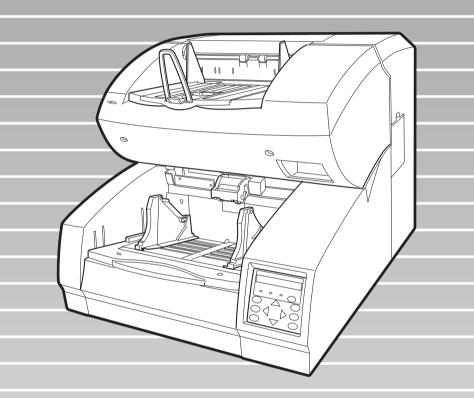
C150-E192-01EN

fi-4990C Image Scanner

Operator's Guide



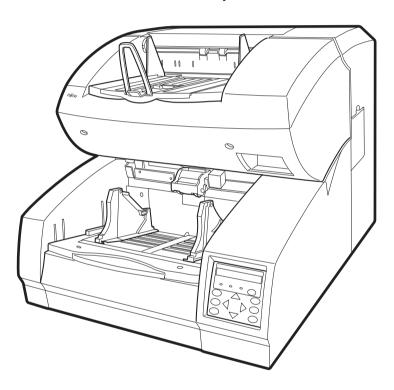




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fi-4990C Image Scanner

Operator's Guide



Edition	Date published	Revised contents		
01	February, 2001	First edition		
Specification No. C150-E192-01EN				

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

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

MaschinenlärmInformationsverordnung 3. GSGV, 18-01. 1991: Der arbeisplatzbezogene Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß ISO7779.

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IMPORTANT NOTE TO USERS

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

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You shall not use this Product without securing the sufficient safety required for the High Safety Required Use.

If you wish to use this Product for High Safety Required Use, please consult with our sale person in charge before such use.

This manual explains how to use the fi-4990C image scanner. This scanner can be equipped with an optional endorser; however, Illustrations in this manual do not include the endorser except those in Chapter 5. For details of the endorser, refer to its Operator Guide.

This manual contains COMPONENTS, INSTALLATION AND CONNEC-TIONS, OPERATING INSTRUCTION, DOCUMENT SPECIFICATION, SPECIFICATIONS, and SETUP, BROWSE, AND TEST MODES.

Refer to the CD-ROM for the information about the routine operation of the fi-4990C.

The CD-ROM contains OPERATING INSTRUCTION, CLEANING, RE-PLACEMENT OF PARTS, ADJUSTMENT and TROUBLESHOOTING.

The fi-4990C is very fast and highly functional image scanner developed for volume filing, using charge-coupled device (CCD) image sensors. This scanner features duplex scanning and high quality image processing with an automatic document feeder (ADF).

Conventions

Special information, such as warnings, cautions, and notes are indicated as follows:

WARNING

WARNING indicates that serious personal injury may result if you do not follow a procedure correctly.

CAUTION

CAUTION indicates that minor personal injury, loss of data, or damage to the scanner may result if you do not follow a procedure correctly.

NOTE

NOTE indicates remarks, tips, and other useful supplementary information.

The following symbols are used in this manual.



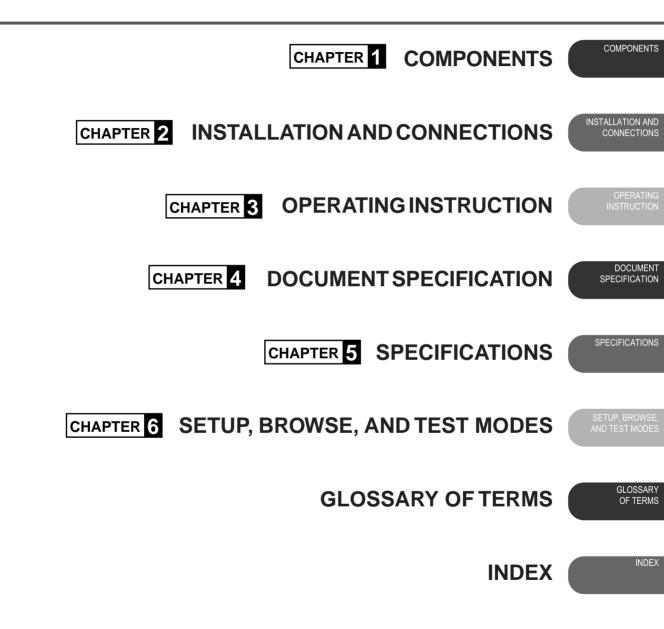
Used for general WARNING and CAUTION.



Used for NOTE.

CONTENTS

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	IN-1





After unpacking the scanner, confirm that all the components have been received. This chapter describes the components of the scanner, part names, and operator panel arrangement and their function.

Checking the Components

Units and Assemblies

Operator Panel

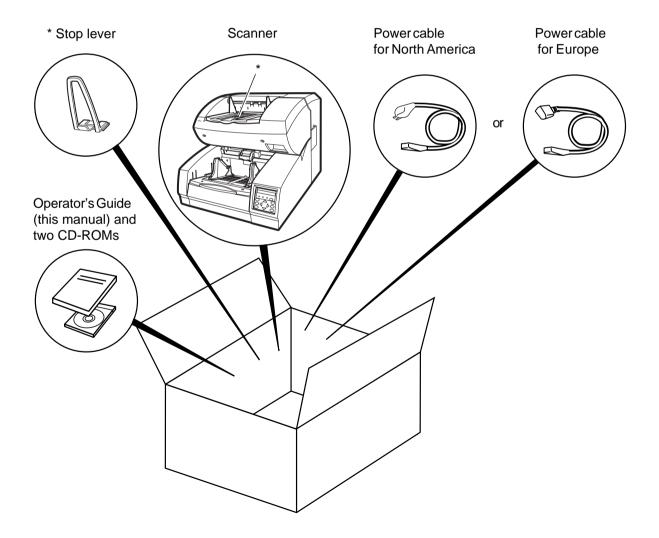
Buzzer

Checking the Components

These are high precision components and must be handled with care.

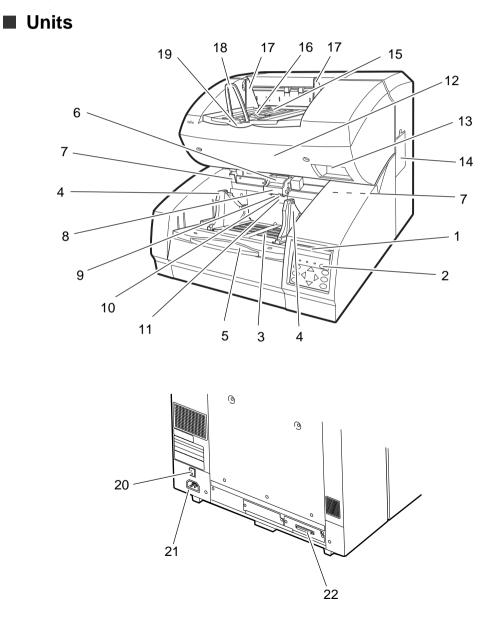
Confirm that all the components shown in the following figure have been received. Mount the stop lever on the stacker of the scanner.

If any component is missing, please contact your sales agent.



Units and Assemblies

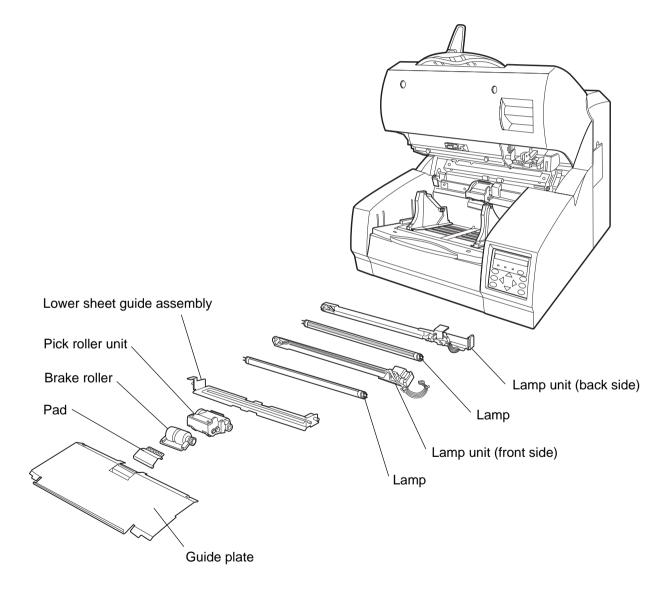
This section shows the exterior view and assemblies of the scanner. This section also provides names of each part and describes their functions.



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No.	Name	Function				
1	Operator panel	Used to operate the scanner.				
2	Power switch	Used to power on or off.				
3	Hopper	Document input tray.				
4	Hopper guides	Used to adjust the document width.				
5	Hopper extension	For use with long documents.				
6	Automatic document feeder (ADF)	Feeds documents automatically.				
7	ADF release lever	Used to open the ADF.				
8	Pick roller unit	Picks top page in document stack.				
9	Guide plate	The pad unit is mounted on.				
10	Pad	Separates top page from document stack.				
11	Brake roller	Separates top page from document stack.				
12	Upper transport unit	Opens for easy access.				
13	Lever	Used to open the upper transport unit.				
14	Side cover	Opens to access back-side lamp.				
15	Stacker	Document exit tray.				
16	Check stopper	Adjustable stopper for shorter length documents.				
17	Stacker guides	Helps guide documents into stacker.				
18	Stop lever	Used to keep documents in the stacker.				
19	Stacker extension	For use with long documents.				
20	Main line switch	Controls supply of line power to the scanner.				
21	Power inlet	Power cable connection.				
22	Interface connectors	Ultra Wide SCSI (1pcs.)				

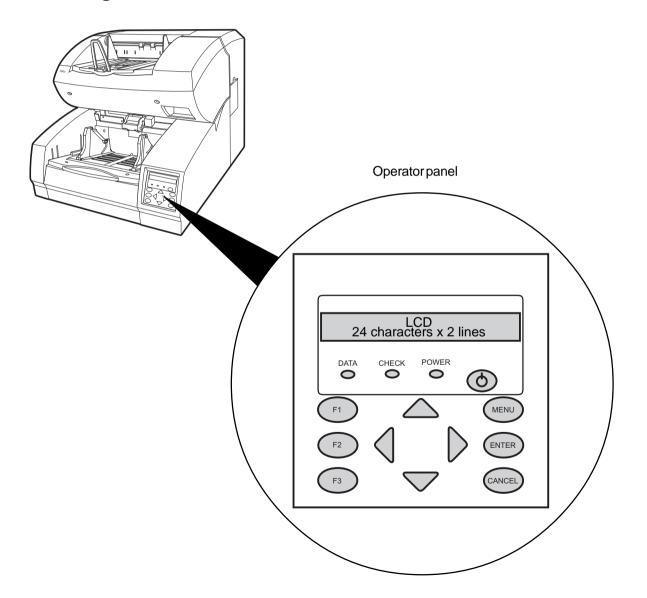
Assemblies



Operator Panel

The operator panel is located at the lower right hand side of the scanner. The panel consists of an LCD (24 character x 2 line), LEDs, and buttons.

Arrangement



Button/LED Function

Button name	Function
\bigcirc	Turns on or off the power when the main line switch is set to "I".
MENU	Sets the scanner in setup or browse mode. It is also used to set test mode. (See Chapter 6) Setup mode is used for customizing the scanner. Browse mode is used for glancing conditions of the scanner. Test mode is used for testing the scanner offline.
ENTER	Used in setup, browse, or test mode.
CANCEL	Clears an error if any. Used in setup, browse, or test mode.
\bigcirc	Lifts the hopper in normal mode without errors. Used in setup, browse, or test mode.
\bigtriangledown	Lowers the hopper in normal mode without errors.Used in setup, browse, or test mode.
	Used in setup, browse, or test mode.
\square	Used in setup, browse, or test mode.
F1 F2 F3	Available as shortcut keys when functions are defined in setup mode.

LED	Function	
POWER	ights when the power is on.	
DATA	Lights when the image buffer contains data.	
CHECK	Blinks when an equipment error occurs.	

LCD Display

LCD	Function			
	Displays equipment status or error contents.			

Operation status display

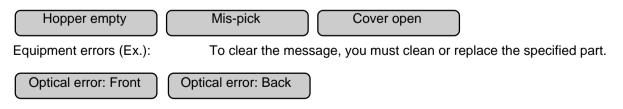
After power is turned on, the LCD indicates the following messages in normal mode.

Please wait	Wait for a moment. This is indicated when processing takes a long time.
	When this is displayed after turning power on, the second line indicates initializing messages.
Ready	The scanner can receive a command from the host computer or can be set in setup, browse, or test mode.
Manual Feeding	Load documents on the hopper table manually.
Feeding	The scanner is feeding documents. The second line indicates the number of documents fed per batch.

Error status display

When the scanner detects errors, the LCD indicates the following messages. There are two types of errors: temporary errors and equipment errors.

Temporary errors (Ex.): The message is cleared just by following the next message.



Buzzer

The scanner has a buzzer to indicate that an error has occurred or an operator panel button is pressed. The buzzer function can be set on or off by following the procedure "Buzzer" in Chapter 6 SETUP, BROWSE, AND TEST MODES.

Sound condition	Function
Error occurred	Sounds continuously. The buzzer turns off when any button is pressed or the power is turned off. Even when a button is pressed, the scanner continues to display the error.
Button pressed	Sounds briefly. This sound cannot be disabled by the buzzer setup.



INSTALLATION AND CONNECTIONS

The chapter describes how to install and connect the scanner.

Precautions

Inspection

Cable Connection

Place the machine with no portion of the scanner hangs over the desktop. Never attempt to move or relocate the machine without help. And hold the horizontal plane of the scanner bottom. (Not inclined plane)

Precautions

🔨 ACHTUNG

Stellen Sie den Scanner sicher auf eine waagerechte, ebene Flache. Bewegen Sie den Scanner nicht ohne Hilfe.

This section describes precautions when installing the scanner.

Do not install the scanner in the following places and environments.

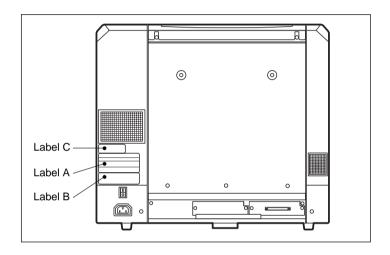
- Place the scanner away from electrical noise sources, strong magnetic fields and air flow. If the scanner is used near an air conditioner, copying machine, or TV set, the scanner may operate incorrectly.
- Keep the scanner out of the sun and away from heaters. These environments may shorten the scanner life or cause hardware failures.
- Do not install the scanner in a place where vibrations may occur. This environment may cause hardware failures or may cause the scanner to operate incorrectly.
- Do not install the scanner in a humid, dusty, or damp places. These environments may shorten the scanner life or cause hardware failures. Do not place the scanner where liquid spills may occur.
- Be aware of the static electricity. Be sure that the flooring and the desk are made of materials that do not generate the static electricity.

See Chapter 5 SPECIFICATIONS for the information such as the size of the installation space.

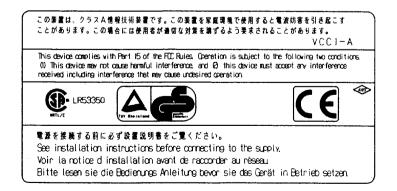
Inspection

This section describes how to check the labels.

Three labels



Label A (An example)



Label B (An example)

MODEL fi	L-4990C IMA	GE SCANNER		
PART NO.	CA04315-B10	7 AC100-240V		
SER. NO		1 phase	50/60Hz	Z
DATE	2001-02	2.9/1.5A	65	kgf
FUJITSU	LIMITED	MADE IN	JAPAN	\Diamond

Label C (An example)

MODEL NAME fi-4990C												
PART NO.	C	CA()43	315	5 – I	31()7					
MODEL	-	0	1	2	3	4	5	б	7	8	9	
REV.	-	0	1	2	3	4	5	б	7	8	9	
	-	0	1	2	3	4	5	б	7	8	9	J

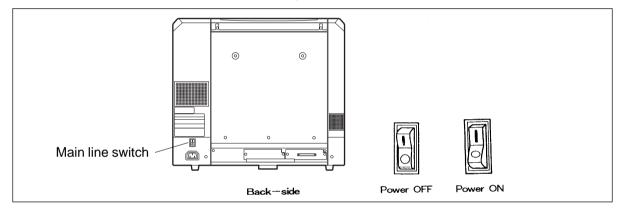
Cable Connection

This section describes how to connect the cables.

Connect the cables as follows:

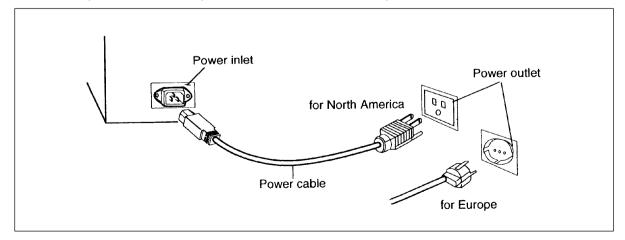
Turning the main line switch off

Press "O" side of the main line switch to turn the power off.



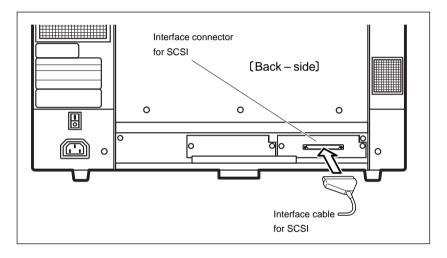
I Connecting the power cable

Connect the power cable to the power inlet of the device and a power outlet.



Connecting the interface cable

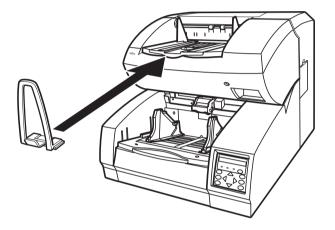
Connect the appropriate SCSI interface cables and secure them with hooks or screws.



NOTE

• SCSI-ID is set to No. 5 at shipment. Refer to Chapter 6 when changing the setting.

Attach the stop lever to the scanner.



Insert the stop lever to the scanner. (Into the gap in the stacker)



This chapter describes how to turn the power on, and also describes how to operate the operator panel (basic operation). Refer to Reference Guide about information on loading document and opening/closing the upper transport unit.

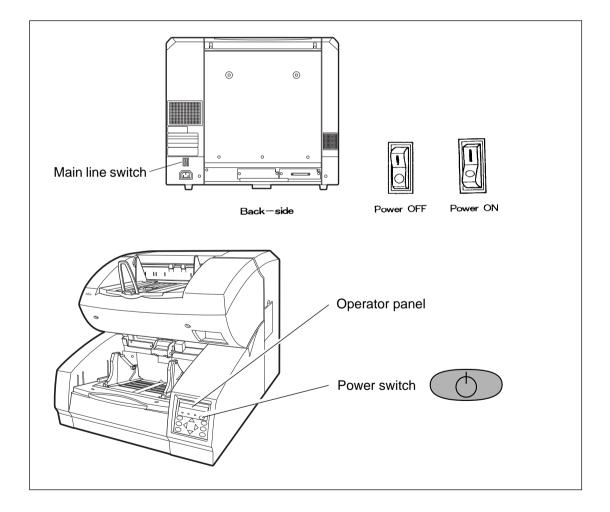
Turning the Power On

Basic Operation of the Operator Panel

Turning the Power On

This section describes how to turn the power on.

Press "I" side of the main line switch located at the back of the scanner. Press the power switch of the operator panel. The power goes on and the green POWER lamp at the operator panel lights.



Basic Operation of the Operator Panel

This section describes basic operation of the operator panel including how to enter the mode selection mode in which you can use setup mode, browse mode, and test mode.

Displaying detailed information if an error occurred

If an error occurs, the CHECK LED blinks and the error message is displayed on the LCD. For example, the LCD indicates as follows:

Hopper empty

Press CANCED to clear the error (Temporaly errors will clear, equipment errors will not).

Lifting or lowering the hopper

When the scanner has no error (the CHECK LED does not light), pressing \frown lifts the hopper and pressing \bigcirc lowers the hopper.

CAUTION

During hopper height adjustment, do not touch the hopper table or do not put anything on the hopper table to prevent your fingers from being caught. If something is caught in the mechanism, the scanner may be damaged.

This function is valid when:

Ready

is displayed.

In details:

- The DATA LED does not light (the scanner contains no data),
- The scanning operation is not in progress,
- The scanner is not in test mode (except the offline feed test), and
- The scanner is not in setup or browse mode.

The hopper stops at the pick position or at the 250-, 500-, or 1000-sheet position depending on the hopper height adjustment in setup mode. At the pick position, the top paper of stack (the hopper table when no paper is loaded on the hopper) is aligned to the pick roller. At the 250-sheet position, for example, the hopper table can load about 250 sheets of paper.

Each time you press \frown or \frown , the hopper lifts or lowers by one position. Pressing \frown when paper is loaded, the hopper lifts up to the pick position.

Clearing a consumable life alarm

This scanner has the consumable counter to estimate consumable life of the scanner. When the consumable counter reaches the prescribed value, the LCD indicates an alarm that the consumable may be expired. For example, the following message appears:

Consumable life alarm AAAAAAA MMMM

In this case, press CANCED. The LCD indicates the following message:

Reset Consumable Counter? Yes:Enter No:Cancel

Yes (press ENTER): The scanner resets the consumable counter to zero.

No (press CANCED): The scanner does not reset the consumable counter. In this case, the consumable life alarm recurs when the next sheet is fed.

Confirming the number of sheets processed by the scanner

The LCD indicates the numbers of sheets scanned during online or in test mode (offline feed test). The LCD indicates the numbers as follows:

Scanning AAAAAAA MMMM

Value	Meaning	Description
ААААААА	Abrasion counter	Eight columns of numbers indicate the accumulative number of sheets fed by this scanner.
MMMM	Batch counter	Four columns of numbers indicate the number of sheets fed per hopper.

Using the function buttons (F1, F2, and F3)

This scanner has the three function buttons (F_1 , F_2 , and F_3) to save time when using a setup function which is likely to require tedious operation. Use these buttons as shortcut keys when you frequently use certain setup functions for your jobs. See Chapter 6 for details.

You can use function buttons after allocating a setup function to it. This allocation can be done in setup mode. After allocation, the allocated function can be easily accessed just by pressing the function button. For allocatable setup functions, see Chapter 6.

The function buttons are available when:

Ready

is displayed.

In details:

- The DATA LED does not light (the scanner contains no data),
- The scanning operation is not in progress,
- The scanner is not in test mode, and
- The scanner is not in setup or browse mode.

The function buttons are available even in the setup mode lock state (see Chapter 6).

Using the setup, browse, and test modes

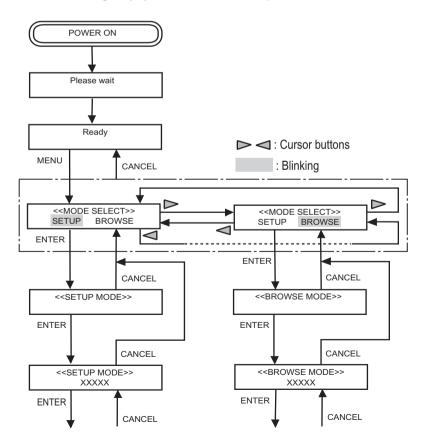
This scanner has the setup mode, browse mode, and test mode to ease operation for customizing the scanner, glancing setup conditions of the scanner, and testing the scanner offline respectively.

There are two ways to enter these modes:

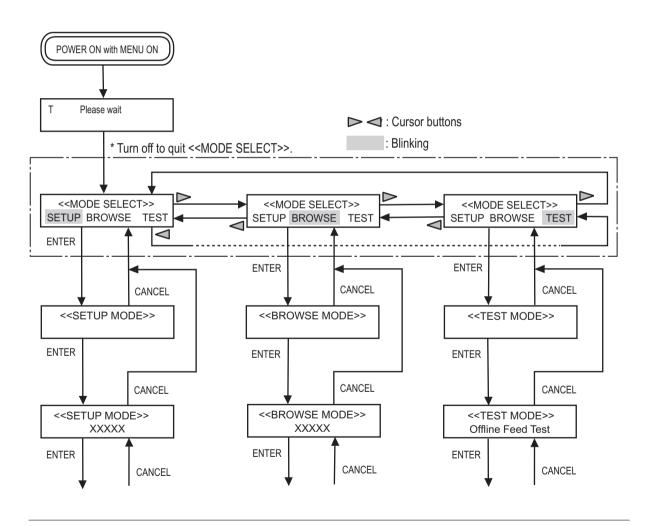
- Press MENU when the LCD indicates "Ready" or
- Turn the power on while pressing MENU.

Available functions differ with the two ways. For details, see Chapter 6.

In the following way, you can use the setup mode and browse mode.

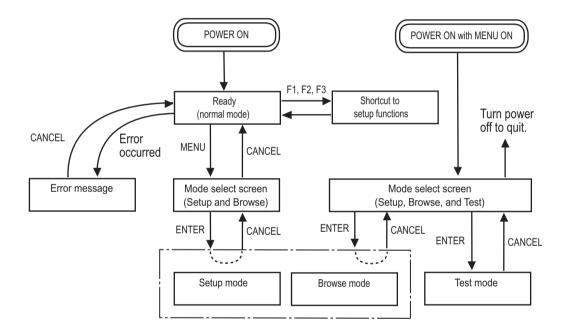


In the following way, you can use the test mode in addition to the setup mode and browse mode. To quit these modes, turn the power off.



Transition of operator panel status and display

The following outlines the transition of status and display of the operator panel.



• 3-10



DOCUMENT SPECIFICATION

This chapter describes the document size and document quality of the scanner.

Document Size

Document Quality

Document Limitations

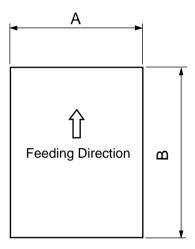
Grounding Color Area

Drop-out Color

Job separation Sheet

Document Size

The following figure shows document sizes that the scanner can read.



Scanner	Maximum		Minimum	
Scanner	Α	В	WIIIIIIUIII	
fi-4990C	297 (11.7 in)	432 (17 in)	A7 size = 74 (2.9 in) x 105 (4.1 in): Available in both portrait and landscape orientations	

(Unit : mm)

Document Quality

This section describes paper types of documents and ream weights of paper available for the scanner, and precautions.

Paper types of documents

The recommended paper types of documents are as follows:

NOTE Please use the specified paper. (In rare occasion, double feeding or document damage may occur.)

- Fine paper
- Plain paper
- OCR paper

When using any other paper types of documents, place a test batch of documents in to the ADF to see if it successfully feeds the documents.

NOTE

Documents may be damaged when an error occurs.

Ream weight of paper

The ream weight of paper is as follows:

• 52 to 127 g/m² (13.9 to 34 lb)

NOTE

Ib indicates the pound weight of 500 sheets of 17 x 22 inch paper (3.76 g/m²).

Precautions

Be careful not to scan the following documents. Preliminary document feed testing may be necessary to avoid the unexpected errors. If the document slips in ADF (JAM error) or double feed occurs frequently, refer to "Improving Document Separation" in Reference Guide.

- Paper with clips or staples
- Paper with wet ink
- Paper of which thickness is not constantly equal. (like envelope)
- Paper with large rumples or curl. (See NOTE on the next page.)
- Paper with folds or tears
- Tracing paper
- Coating paper
- Carbon paper
- Carbonless paper
- Paper smaller than A7 size, or larger than A3 size
- Other than paper: clothes, metal foils, or OHP films
- Photographic paper
- Paper with notches on its side
- Other than rectangle paper

When scanning a translucent document, set the density to light mode.

To prevent roller smudging, avoid scanning a document filled out in pencil. Clean the roller as often as possible when scanning many document. Once every 1000 sheets is recommended.

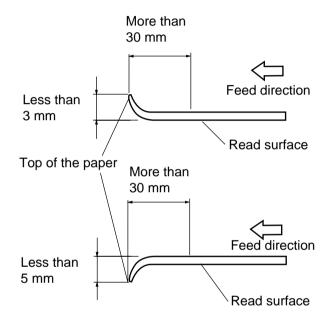
The chemical composition of some carbonless papers may react with the roller rubber and damage the rubber. Check the carbonless papers before use.

When using carbonless paper, follow these conditions:

- Ream weight of the paper is 52 g/m² (13.9 lb) or more.
- Hopper load is 500 sheets or fewer.



- If carbonless papers are used, clean the roller twice as often as usual.
- Documents should be straightened to fit the condition below.



• When you read curled, wrinkled, or creased documents, documents may not be successfully arranged in the stacker.

Document Limitations

This section describes restrictions on document used for the scanner.

Areas that must not be perforated

Perforatins are prohibited in the shaded area of Figure 4.1 to avoid document size detection error or job separation sheet detection error or jam.

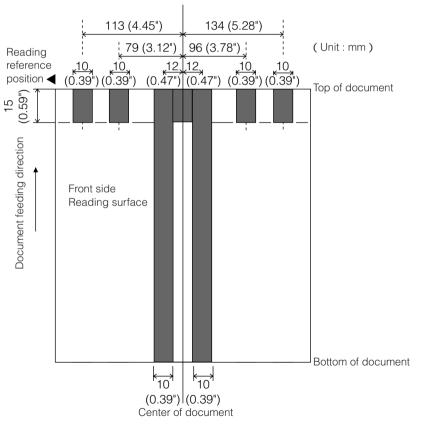


Figure 4.1 Areas that must not be perforated

Print phohibit areas on the front and back surfaces

Printing in area A on the front of a document may, in a rare case, cause a document size detection error. Printing in area B on the front and back of document may, in a rare case, result in a double feed error. Figure 4.2 shows print prohibit areas on the front and back surfaces.

NOTE Figure 4.2 shows the document as viewed from the reading surface.

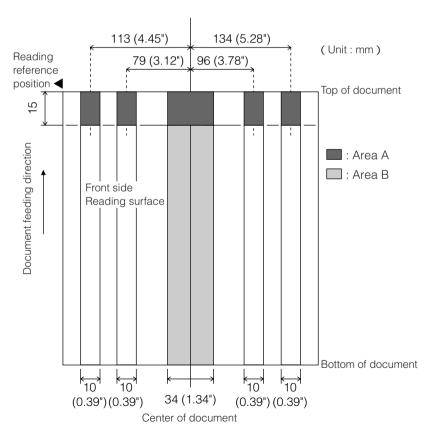


Figure 4.2 Print prohibit areas on the front and back surfaces

Grounding Color Area

As Figure 4.3 shows, the top 3-mm part of the read area on each surface should be left blank (grounding color) by specifying a drop-out color. If the drop-out color cannot be specified, select "Photo" for the document type (linedrawing or photograph).

For details of the drop-out color, see Page 4-8.

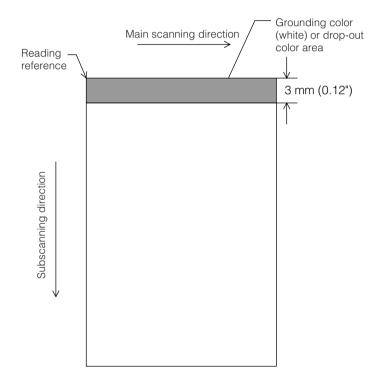


Figure 4.3 Grounding color area

Drop-out Color

A drop-out color is a color visible by a human eye but not visible to the scanner.

To check the grounding color of document for a drop-out color, use the method and follow the standards given below.

Print density measurement

The spectrum chart shown in Figure 4.4 is used to measure print density.

The measurement must be made in one of the following ways:

- A light source using fluorescent.
- Macbeth PCS meter PCM II is used, which requires a filter.

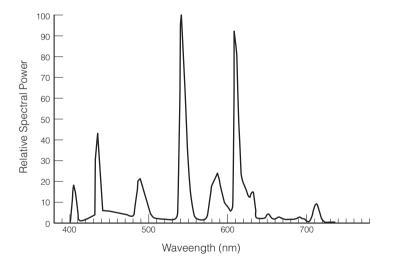


Figure 4.4 Spectrum band

Drop-out color standards

In the spectrum of fluorescent lamp the PCS value must satisfy the following standards:

- Maximum: 0.14 or less
- Average: 0.1 or less

Job Separation Sheet

Shape

The following Figure 4.5 shows the shape of the document.

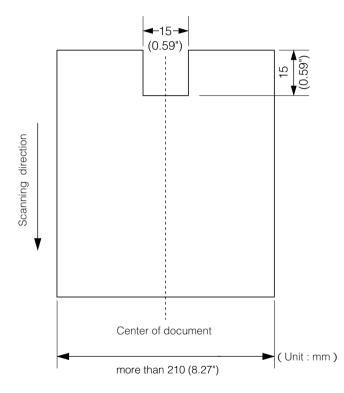


Figure 4.5 Shape of document

Document type

The document type and ream weight specifications given in Section 4-2 apply.

However, the document size shall be A4 or larger (210 mm (8.27") or more wider).



This chapter describes the installation specifications, external dimensions, consumables, option.

Installation Specifications

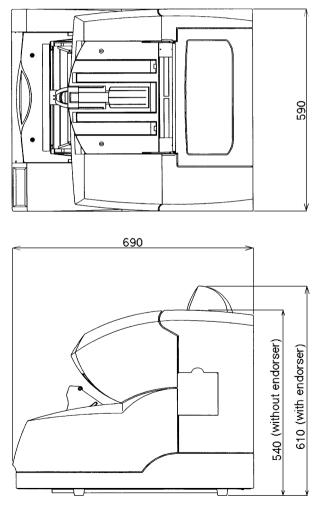
External Dimensions

Consumables

Options

The following table lists the installation specifications of the scanner.

Item		Specif	ication	
Dimensions (mm) Width		590 (23.2 in)		
Depth		690 (27.2 in)		
		Height	540 (21.3 in) without optional endorser	
			610 (24.0 in) with optional endorser	
Weight (kg)		65 (143 lb.)		
	Voltage		100 to 240 VAC ±10 %	
Input power	r Phases		Single-phase	
	Frequency		50/60 Hz + 2% -4%	
Power consumption		250 VA or less		
Device status		Operating	Not operating	
Ambient	Ambient Temperature		15 to 35°C	-20 to 60°C
condition			(60 to 95°F)	(-4 to 140°F)
	Humidity		20 to 80 %	8 to 95 %



(unit: mm)

Consumables

The following table lists consumables used for the scanner. Be sure to keep some consumables in stock. Customer is responsible to change these items periodically. The consumable counter can be used to check the number of scanned documents. (See page 3-4, 6-22.)

Name	Specification	Service life and remarks
Lamp	CA04315-0430	1000 hours or more. Two lamps used per scanner.
Pad	CA04315-G730	300,000 sheets or one year.
Pick roller unit	CA04315-F711	300,000 sheets or one year.
Brake roller	CA04315-F705	300,000 sheets or one year.
Print head	CA01023-0701	20,000 sheets (10 characters/sheet). Black ink cartridge for endorser.



- These service lives (replacement cycles) may be shortened depending on paper types of documents scanned or wrong cleaning of the scanner.
- When carbon-less paper is used, the replacement cycle is shortened. So, these parts must be replaced earlier than above.
- Adjust Consumable counter if shortened consumable life is expected. This will ensure consumables are replaced when needed. (page 6-22)

Options

The following table lists options of this scanner.

Name	Specification	Remark
Endorser	CA04315-D201	Ink jet printing method • Back-side print • Max. 33 characters

Contact your Fujitsu sales agent for more information.



SETUP, BROWSE, AND TEST MODES

This chapter describes the setup, browse, and test modes of the scanner.

Setup, Browse, and Test Modes

Activating the Setup or Browse Mode

Contents of the Setup or Browse Mode

Activating the Test Mode

Contents of the Test Mode

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Setup, Browse, and Test Modes

This scanner has the setup mode, browse mode, and test mode to ease setting up.

- · Setup mode for customizing the scanner for user requirements
- · Browse mode for glancing setup conditions of the scanner
- Test mode for testing the scanner offline

There are two ways to enter these modes:

• Way 1

Press MENU when the LCD indicates "Ready".

You can use the setup mode and browse mode. To quit a mode, press CANCED.

• Way 2

Turn the power on while pressing <u>MENU</u>.

You can use the test mode in addition to the setup mode and browse mode. To quit a mode, turn off the power.

Available functions differ with modes or with ways. For details, see descriptions of each function.

Functions not available in setup mode

Way	Functions not available
MENU pressed in Ready status	TP_IF baud rate, SCSI ID, Product ID, Function key, Setup mode lock

Functions not available in browse mode

Functions not available

Paper thickness setup

Activating the Setup or Browse Mode

To activate the setup mode, follow these steps:

- While the LCD is indicating "Ready", press <u>MENU</u>. The <<MODE SELECT>> screen appears with "SETUP" blinking.
- Press ENTER.
 The <<SETUP MODE>> initial screen (*) appears.
- Press ENTER.
 The <<SETUP MODE>> menu screen (**) appears.

Ready		
< <mode select="">> SETUP BROWSE</mode>		
< <setup mode="">> Initial screen</setup>		
< <setup mode="">></setup>		
** < <setup mode="">> menu screen</setup>		
< <setup mode="">> XXXXX</setup>		

To activate the browse mode, press before step 2 to make "BROWSE" blinking, then follows steps 2 and 3. The <<BROWSE MODE>> screen appears.

To quit the setup mode, press CANCED.

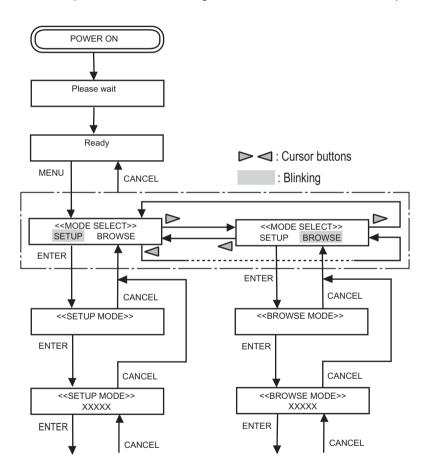
Button functions in setup or browse mode

Button name	Function
MENU	Returns to the < <setup mode="">> menu screen without saving the change (*).</setup>
ENTER	Returns to the previous screen while saving the change (*).
CANCEL	Returns to the previous screen without saving the change (*).
	Displays the next function at the right in the menu.Moves to the right item.
\square	Displays the next test function at the left in the menu.Moves to the left item.
\bigtriangledown	Changes parameters.
	Changes parameters.

* In browse mode, "saving the change" does not occur.

■ Mode selection (<u>MENU</u> pressed in Ready status)

There is another mode selection which enables you to execute the user test on the scanner without the host computer. See "Activating the Test Mode" later in this chapter.



Contents of the Setup or Browse Mode

This section describes the contents of the setup mode.

The setup mode can be classified into 35 types.

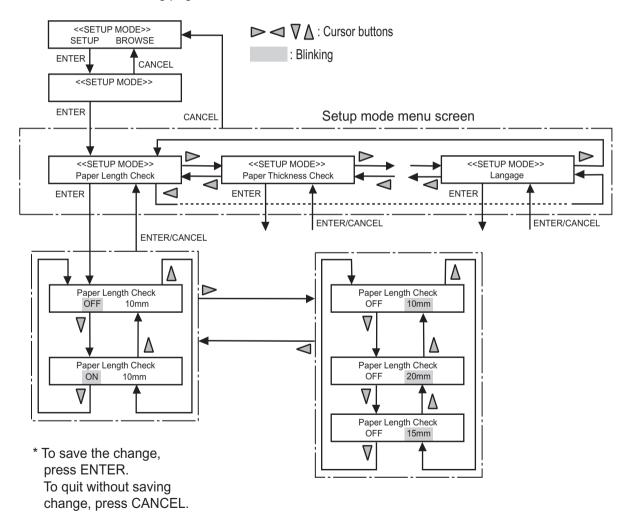
Setup item	Description	Remarks
Paper length check	Enables or disables the function which detects a paper length error.	The selection set by the host computer cannot be changed.
Doublefeed check	Enables or disables the function which detects the paper thickness.	The selection set by the host computer cannot be changed.
Paper thickness setup	Sets the permissible paper thickness to detect a double feed error.	
Skew check	Enables or disables the function which detects a skew error.	
IPC-3 mode	Selects a pattern to be set in the image processing option.	Overrides the selection set by the host computer.
Hopper height	Sets the initial position of the hopper.	
Paper separation level	Sets the power of separating sheets of paper.	
Drop-out color	Selects a drop-out color.	The selection set by the host computer cannot be changed.
Background changeover	Sets the Background to "white" or "Black"	The selection set by the host computer cannot be changed.
Consumable counter	Sets the interval (in ten thousands) in which a consumable alarm occurs.	
Consumable counter reset	Reset the accumulated count value of the consumable counter.	Displayed in setup mode selected by turning power on with MENU pressed.
Consumable alarm mode	Sets the mode how to notify the alarm generation when the accumulated consumable counter value reaches to the setting value.	Displayed in setup mode selected by turning power on with <u>MENU</u> pressed.
Buzzer	Activates or inactivates the buzzer sound when an error occurs.	
Buzzer volume	Sets the volume of buzzer or click sound.	
LCD contrast	Sets the contrast of the LCD.	
Picking speed	Selects the speed of the pick roller.	
* Endorser Initial setting	Sets whether to enable the endorser imprinting process, and to set the initial value of the imprinting number.	The details and the operation method, please refer to the "M4099D/M4099DC/fi-4990/fi-4990C Image Scanner Operator's Guide : Option".
* Endorser Reset Method	Sets whether to reset the number to be imprinted by Endoser every time when the Hopper Empty is detected.	
* Endorser Reset	Reset the number to be imprinted by Endoser.	1
* Ink Counter Reset	Reset the print head life counter.	

Setup item	Description	Remarks
TP_IF baud rate	Selects the control data transfer rate (2400, 4800, 9600, or 19200) for the TP interface.	Displayed in setup mode selected by turning power on with MENU pressed.
SCSI ID	Sets the SCSI ID of this scanner.	Displayed in setup mode selected by turning power on with MENU pressed.
Product ID	Sets the product ID of this scanner.	Displayed in setup mode selected by turning power on with MENU pressed.
Pre-pick	Enables or disables pre-picking.	
Pick start time	Sets the period from when paper is loaded manually to when the pick operation starts.	
Manual feed timeout	Sets the waiting period from when the host computer issues a scan command to when paper is loaded manually.	
Paper pick retry	Sets the pick motor operation time and retry count.	
Paper feed retry	Sets the feed motor operation time and retry count.	
Function key	Allocates setup functions to F_1 , F_2 , and F_3 buttons.	Displayed in setup mode selected by turning power on with MENU pressed.
Setup mode lock	Inhibits the operator panel from entering setup mode from normal mode.	 Displayed in setup mode selected by turning power on with <u>MENU</u> pressed. Setup functions allocated to <u>F1</u>, <u>F2</u>, and <u>F3</u> buttons are always valid regardless of this setting.
Language	Select the Operation Panel LCD display language (Japanese/English).	
White follower mode	Selects the white Level follower operation "0" means default "1"means operate like M3099X scanner.	Displayed in setup mode selected by turning power on with <u>MENU</u> pressed.
Interface Board slot	Selects the Interface Board Slot "1" or "2".	Displayed in setup mode selected by turning power on with MENU pressed.
SCSI Bus Width setting	When connects Narrow SCSI card, Selects "8 bit".	Displayed in setup mode selected by turning power on with MENU pressed.
* Printing Position	Set the Endorser print start position.	The details and the operation method, please refer to the "M4099D/M4099DC/fi-4990/fi-4990C Image Scanner Operator's Guide : Option".

* If the option is not mounted, the set up item for the option does not display on the screen and skips to the next item.

Transition of screens in setup mode

This flowchart indicates the transition of screens in setup mode for reference to the setup operation described in the following pages.



Paper length check

This function sets and detects a difference in paper length. You cannot change settings if they are set by the host computer.

LCD display	Options	Remarks
Paper Length Check	On, Off (Default: Off) 10 mm, 15 mm, 20 mm (Default: 10 mm)	Checked or not Difference: XX mm means that it is not regarded as an error when the actual difference of paper length is within the limits of ±XX mm.

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

Press ENTER.
 The option select screen indicates the current options with OFF blinking (blinking indicates

"changeable").

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

Paper Length Check OFF 10 mm

Paper Length Check ON 10 mm

- Press D. The current difference 10 mm blinks (blinking indicates "changeable").
- Press or . The displayed option changes (15 mm or 20 mm).

Paper Length Check ON 10 mm

Paper Len	gth (Check
	20 r	

- When the desired value appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Paper Length Check).
- 7. Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>> Paper Length Check

Ready

Doublefeed check

This function determines whether or not to enable the paper thickness which is set by the "paper thickness setup" function to detect a double feed error. You cannot change settings if they are set by the host computer.

LCD display	Options	Remarks
Double feed Check	Off, Thickness Check, Thickness & Roller (Default: Off) At pick the paper (Default) At pick + feed the paper	OFF: Set the double feed check to Disabled. Thickness & Roller check: Detect the double feed by checking the document thickness and the rotation of brake roller. Thickness check: Detect the double feed by checking the document thickness.

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Doublefeed Check Press ENTER.
 The option select screen appears with the current option MODE blinking (blinking

indicates "changeable").

- Press ENTER). The option select screen appears with the current option OFF blinking (blinking indicates "changeable").
- Press ENTER to save the change. The LCD returns to the option select screen appears with the current option MODE blinking (blinking indicates "changeable").
- Press . The option select screen appears with the current option TIMING blinking (blinking indicates "changeable").
- Press ENTER.
 The option select screen appenrs with the current option At pick the paper blinking.
- Press or . The displayed option changes (At pick + feed the paper).
- 10. Press ENTER to save the change. The LCD returns to the option select screen appears with the current option TIMING blinking.

Doublefeed Check MODE TIMING

Doublefeed Check : MODE OFF

Doublefeed Check : MODE Thickness & Roller

> Doublefeed Check MODE TIMING

Doublefeed Check MODE TIMING

Doublefeed Check : TIMING At pick the paper

Doublefeed Check : TIMING At pick + feed the paper

> Doublefeed Check MODE TIMING

11. Press CANCED two times. The LCD returns to the Ready screen.

Ready

Paper thickness setup

This function sets the paper thickness which is used as the reference for detecting a double feed error. Whether this function is enabled or disabled is determined by the "paper thickness check" function in setup mode.

NOTE

This setting cannot be displayed in browse mode.

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER.
 The <<SETUP MODE>> menu screen (Paper

Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>>

Paper Thickness Setup

- Press > twice. The <<SETUP MODE>> menu screen (Paper Thickness Setup) appears.
- Press ENTER.
 The paper load prompting screen appears, requesting adjustment paper.

- Paper Thickness Setup
- 4. Select thickest paper used for your jobs and put the paper on the hopper.

Set the adjustment paper

5. Press ENTER.

The "Adjusting!!" message appears. The scanner lifts the hopper, feeds the paper, adjusts the sensing level of the sensor, and saves its value.

After adjustment, the sheet is ejected and the "Finished!!" message appears for two seconds, then the LCD returns to the <<SETUP MODE>> menu screen (Paper Thickness Setup).

If an error (for example, Mis-pick) occurs during adjustment, remove the paper and press CANCEL. The paper load prompting screen appears again. Repeat steps 4 and 5.

6. Press CANCED two times. The LCD returns to the Ready screen. Paper Thickness Setup Adjusting!!

Finished!!

<<SETUP MODE>> Paper Thickness Setup

Ready

Skew check

This function determines if abnormal skew is detected or not. You cannot change the setting if it is set by the host computer.

LCD display	Options	Remarks
Skew Check	On, Off (Default: Off)	

The following is an example of operation when you use this function.

 In <<SETUP MODE>> initial screen, press ENTER. The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

- Press b three times. The <<SETUP MODE>> menu screen (Skew Check) appears.
- Press ENTER. The option select screen appears with the current option OFF blinking (blinking indicates "changeable").

 Press or . The displayed option changes (ON blinks).

- 5. Press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (Skew Check).
- 6. Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>> Skew Check

> Skew Check Check: OFF

Skew Check Check: ON

<<SETUP MODE>> Skew Check

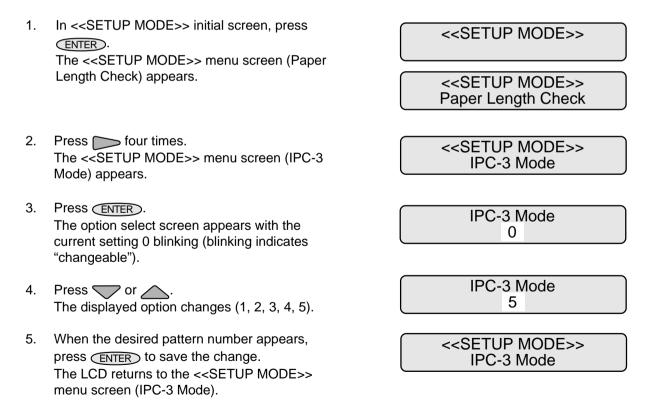
Ready

■ IPC-3 mode

This function selects a pattern to be set in the IPC-3 image processing feature.

LCD display	Options	Remarks
IPC-3 Mode	0, 1, 2, 3, 4, 5 (Default : 0)	0: do not select any pattern 1 to 5: select pattern numbers 1 to 5

The following is an example of operation when you use this function.



When you set from the Function Key, the dialogue appears whether you want to save the revised data. If you want to save the process, press "ENTER"key. And if you do not want to save the process, press "CANCEL"key.

Press CANCED two times.
 The LCD retarns to the Ready screen.

Ready

Paper types and corresponding pattern numbers

User's paper is classified into five types in line art (no halftone) mode as shown in the following table.

- The horizontal axis shows the density and color of background on paper.
- The vertical axis shows the density of characters or lines.

		Backgro	ound density	Background color		
		Normal ←	ightarrow Dark	Red	Green	Blue
Character density	Normal ↑	1: Normal back- ground and normal character	3: Dark back- ground and normal character			
	↓ Light	2: Normal back- ground and light character		4: Light character on red or similar background	5: Light character on green or similar background	

* 1 to 5 are pattern numbers.

When IPC-3 mode is executed in online status, the reading parameter is valid or invalid (host setting is invalid) as follows:

Important

When scaned in Grayscale or color, this setting is not in Effect. only effective when scaned in Binary.

Reading parameter validity

		Reading parameter						
	Reading mode	Resolution	Line-art/ Photo	Halftone	DTC	Paper Size	Portrait/ Landscape	Picking
Valid	х	х				х	х	Х
Invalid			х	х	Х			

		Reading parameter						
	Document selection	r patterns	Contrast	Automatic separation	Conversion	Sharpness	Outline extraction	Simplified DTC
Valid	х				х			
Invalid		х	х	Х		Х	х	х

Hopper height

This function sets the initial height of the hopper. Set the height which you frequently use.

LCD display	Options	Remarks
Hopper Height	250 sheets, 500 sheets, 1000 sheets (Default : 1000 sheets)	

The following is an example of operation when you use this function.

 In <<SETUP MODE>> initial screen, press (ENTER).

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

2. Press prepartedly until "Hopper Height" appears in the lower line of the menu screen.

<<SETUP MODE>> Hopper Height

3. Press ENTER.

The option select screen appears with the current height setting 1000 sheets blinking (blinking indicates "changeable").

Hopper Height 1000 sheets

4. Press ____.

The hopper moves to the 500-sheet position and the new height setting 500 sheets blinks.

Each time you press or , the hopper moves to the next position and its position is automatically saved. Repeat this operation until the hopper is positioned at the desired height. Hopper Height 500 sheets If an error occurs during positioning, press CANCED. The LCD returns to the option select screen. Repeat step 4.

5. Press CANCED three times. The LCD returns to the Ready screen.

Ready

After this setting, the hopper is set at the new height whenever power is turned on.

Paper separation level

This function sets the power of the brake roller for stabilizing paper separation in picking documents.

LCD display	Options	Remarks
Paper Separation Level	Thick, Medium Thick, Normal, Medium Thin, Thin (Default: Normal)	Thick: strong braking power for thick paper (changes according to paper thickness) Thin: weak braking power for thin paper

If the following errors frequently occur, set the braking power as explained below.

- Double feed
- Mis-pick
- SF2 did not detect leading edge of paper

Set "braking power" according to the table below.

Setting	Braking power	"Double feed" frequently occurs.	"Mis-pick" or "SF2" frequently occurs.
Thick	Very strong	A	
Medium Thick	Strong		
Normal	Medium (factory default)	Make the braking power stronger.	Make the braking power weaker.
Medium Thin	Light		
Thin	Very light		

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>>

Paper Separation Level

- Press prepeatedly until "Paper Separation Level" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current option Normal blinking (blinking indicates "changeable").
- Press or . The displayed option changes (Thick to Thin).

Paper Separation Level Normal

Paper Separation Level Medium Thin

- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Paper Separation Level).
- Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>> Paper Separation Level

Ready

Drop-out color

This function sets a drop-out color for front and back sides of paper respectively. You cannot change settings if they are selected by the host computer.

LCD display	Options	Remarks
Drop-out Color	Front: Green, Red, Blue (Default: Green) Back: Green, Red, Blue (Default: Green)	

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press

ENTER).

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

- 2. Press prepartedly until "Drop-out Color" appears in the lower line of the menu screen.
- Press ENTER.
 The option select screen appears with the current setting Green (for Front) blinking (blinking indicates "changeable").
- Press D. Green (current option for Back) blinks (blinking indicates "changeable").
- Press or .
 The displayed option changes (Blue or Red).

Drop-out Color

<<SETUP MODE>>

Drop-out Color Front: Green Back: Green

Drop-out Color Front: Green Back: Green

Drop-out Color Front: Green Back: Red

- 6. When the desired option appears, press (ENTER) to save the change. The LCD returns to the <<SETUP MODE>> menu screen (Drop-out Color).
- 7. Press CANCED two times. The LCD returns to the Ready screen.

Background changeover

This function sets the Background to "White" or "Black".

LCD display	Options	Remarks
Background changeover	Front: White, Black (Default: White) Back: White, Black (Default: White)	

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press

ENTER).

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

2. Press prepeatedly until "Background" Changeover" appears in the lower line of the menu screen.

3. Press (ENTER).

The option select screen appears with the current setting White (for Front) blinking (blinking indicates "changeable").

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> **Background Changeover**

Background Changeover F: White B: White

<<SETUP MODE>> Drop-out Color

Ready

<<SETUP MODE>>

- Press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (Background Changeover).
- Press CANCED two times. The LCD returns to the Ready screen.

Background Changeover F: White B: White

Background Changeover F: White B: Black

<<SETUP MODE>> Background Changeover

Ready

Consumable counter

This function displays or sets a value of the counter which informs the user of the life (replacement cycle) of a consumable. When the number of sheets fed reaches the set value, an alarm occurs. Set this value according to types of paper you use. When using fine paper, the standard replacement cycle of pick roller units, brake rollers, and pads is per three hundred thousands of sheets fed. So, we recommend you to set the value to 0300000.

LCD display	Options	Remarks
Consumable Counter	10000 to 2560000 sheets (Default: 2560000 sheets)	This setting can be changed in ten thousands of sheets. The least four digits of zeros are automatically added.

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press

 ENTER.
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- Press prepeatedly until "Consumable Counter" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current value blinking (blinking indicates "changeable").
- Press or <a>.. The displayed value changes (1 to 256). (Value can be changed in ten thousands of sheets.) Pressing and holding down or speeds up the change.
- When the desired value appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Consumable Counter).
- Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Consumable Counter

Consumable Counter 2560000 sheets

Consumable Counter 0300000 sheets

<<SETUP MODE>> Consumable Counter

Ready

Consumable counter reset

This function is to be used when the consumable parts are replaced before the accumulated value of the consumable conter reaches to the setting value.

You cannot use this function when the setup mode is brought by pressing "MENU" in the Ready status.

LCD display	Options	Remarks
Consumable Counter Reset	YES, NO (Default)	YES: Reset the accumulated consumable counter value. NO: cancel the resetting of consumable counter value.

The following is an example of operation when you change the setting.

 <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

- Press preparedly until "Consumable Counter Reset" appears in the lower line of the menu screen.
- Press ENTER.
 The current option list screen appears with NO blinking. (blinking indicates "changeable").
- Press or . The displayed option changes (YES blinks).

<<SETUP MODE>> Consumable Counter Reset

Reest	Counter Value
NO	00250000

Reest	Counter Value
YES	00250000

- When the desired option appears, press
 ENTER to resetting the Consumable Counter.
 The LCD returns to the <<SETUP MODE>> menu screen (Consumable Counter Reset).
- To quit the <<SETUP MODE>>, turn off the power.

Finished resetting!!

<<SETUP MODE>> Consumable Counter Reset

Consumable alarm mode

This function is to be used how to notify the alarm generation when the accumulated consumable counter value reaches to the setting value.

You cannot use this function when the setup mode is brought by pressing "MENU" in the Ready status.

LCD display	Options	Remarks
Consumable Alarm Mode	Alarm & Stop scanning (Default) Message only	Alarm & Stop scanning: when the accumulated value reaches to the Consumable Counter Setting value, the alarm displayes on the LCD and stop the scanning operation. Message only: When the accumulated value reaches to the Consumable Counter Setting value, the alarm displays on the LCD. (scanning operation does not stop.)

The following is an example of operation when you change the setting.

- <<SETUP MODE>> initial screen, press
 ENTER.
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- Press prepeatedly until "Consumable Alarm Mode" appears in the lower line of the menu screen.
- Press ENTER. The current option list screen appears with "Alarm & Stop scanning" blinking (blinking indicates "changeable").
- Press or . The displayed option changes ("Message only" blinks).
- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Consumable Alarm Mode).
- 6. To quit the <<SETUP MODE>>, turn off the power.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Consumable Alarm Mode

Consumable Alarm Mode Alarm & Stop scanning

Consumable Alarm Mode Message only

<<SETUP MODE>> Consumable Alarm Mode

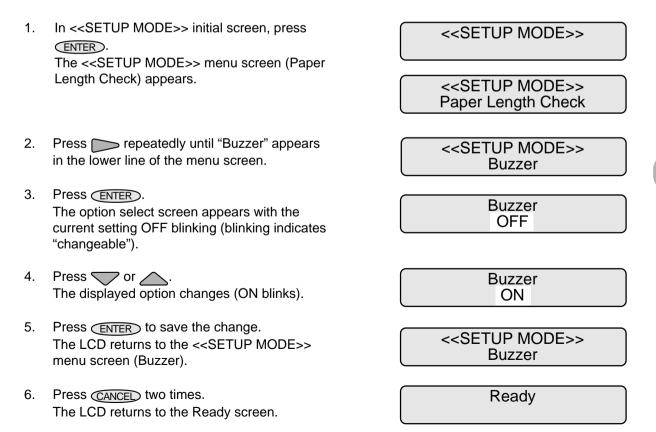
Buzzer

This function enables or disables the buzzer sound when an error occurs.

The buzzer sounds regardless of this setting when use this function.

LCD display	Options	Remarks
Buzzer	On, Off (Default: Off)	

The following is an example of operation when you use this function.



Buzzer volume

This function sets the sound volume of the buzzer in seven steps.

This setting is valid both for occurrence of an error and for press of an operator panel button.

LCD display	Options		Remarks	
Buzzer Volume	to	(Default: ■ ■ □ □ □ □)	Minimum to Maximum	(seven steps)

* Symbols of volume may differ from the actual symbols used in the LCD.

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper

Length Check) appears.

- 2. Press prepartedly until "Buzzer Volume" appears in the lower line of the menu screen.
- Press ENTER.
 The option select screen appears with the current setting □ □ □ □ (no blinking but changeable).
- 4. Press or
 The displayed option changes (■ ■ □ □
 to ■ ■ ■, □ □ □ □ □ or □ □ □
 □).

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Buzzer Volume





- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Buzzer Volume).
- Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>> Buzzer Volume

Ready

LCD contrast

This function sets the contrast of the LCD on the operator panel in seven steps.

LCD display	Options		Remarks	
LCD Contrast	to	(Default: ■ ■ □ □ □ □)	Dark (low contrast) to Bright (high contrast)	(seven steps)

* Symbols of volume may differ from the actual symbols used in the LCD.

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- 2. Press prepatedly until "LCD Contrast" appears in the lower line of the menu screen.
- 3. Press ENTER.

The option select screen appears with the current setting \blacksquare \blacksquare \Box \Box \Box \Box (no blinking but changeable).

<<SETUP MODE>>
</SETUP MODE>>
Paper Length Check

<<SETUP MODE>> LCD Contrast



- 4. Press or
 The displayed option changes (■■■□□
 to ■■■■■■, □□□□ or ■□□□
 □).
- When the desired option appears, press
 (ENTER) to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (LCD Contrast).
- Press CANCED two times. The LCD returns to the Ready screen.

Dark 🗖 🗖 🗖 🗖 🗖 🖓 Bright

LCD Contrast

<<SETUP MODE>> LCD Contrast

Ready

Picking speed

This function sets the rotational speed of the pick roller. Slow speed is recommended when you use thin or flexible paper which is liable to mis-pick.

LCD display	Options	Remarks
Picking Speed	Slow, Middle, Fast (Default: Fast)	

Processing speed of scanning is reduced when the picking speed is set "Slow" or "Middle".

Set "picking speed" according to the table below.

Picking speed	"Mis-pick" frequently occurs.
Fast (factory default)	Make the picking
Middle	speed slow.
Slow	

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen
 (Paper Length Check) appears.
- Press preparedly until "Picking Speed" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current setting Fast blinking (blinking indicates "changeable").
- Press or <u>here</u>. The displayed option changes (Fast to Slow).
- Press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (Picking Speed).
- Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Picking Speed

Picking Speed Fast

Picking Speed Slow

<<SETUP MODE>> Picking Speed

Ready

■ TP_IF baud rate

This function sets the baud rate (signaling speed) according to the baud rate of the third party interface (TP_IF).

You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

LCD display	Options	Remarks
TP_IF Baud Rate	2400, 4800, 9600, 19200 (Default: 9600)	Unit: baud

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- Press prepartedly until "TP_IF Baud Rate" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current setting 9600 blinking (blinking indicates "changeable").
- Press or . The displayed option changes (19200, 2400, 4800).
- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (TP_IF Baud Rate).
- To quit the <<SETUP MODE>>, turn off the power.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> TP_IF Baud Rate

TP_IF Baud Rate 9600

TP_IF Baud Rate 19200

<<SETUP MODE>> TP_IF Baud Rate

SCSI ID

This function sets the ID number for the SCSI interface.

You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

LCD display	Options	Remarks
SCSI ID	0 to 7 (Default: 5)	

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER.
 The <<SETUP MODE>> menu screen (Paper

Length Check) appears.

2. Press prepeatedly until "SCSI ID" appears in the lower line of the menu screen.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> SCSI ID

3. Press ENTER.

The option select screen appears with the current setting 5 blinking (blinking indicates "changeable").

- SCSI ID 5
- 4. Press or <u>.</u>. The displayed option changes (6, 7, 0, 1, 2, 3, 4).
- When the desired value appears, press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (SCSI ID).
- 6. To quit the <<SETUP MODE>>, turn off the power.

SCSI ID	
3	

<<SETUP MODE>> SCSI ID

Product ID

This function sets the product ID of the scanner. Usually, you need not change this setting.

You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

LCD display	Options	Remarks
Product ID	Fi-4990C, M4099DC, M3099G (Default: Fi- 4990C)	Model number of this scanner

* The model number of this scanner is Fi-4990C.

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- Press prepartedly until "Product ID" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current setting Fi-4990C blinking (blinking indicates "changeable").
- Press or . The displayed option changes (M3099G or M4099DC blinks).
- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Product ID).

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Product ID

Product ID Fi-4990C



<<SETUP MODE>> Product ID

6. To quit the <<SETUP MODE>>, turn off the power.

Pre-pick

This function enables or disables paper pre-picking.

LCD display	Options	Remarks
Pre-pick	On, Off (Default: On)	

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press <<SETUP MODE>> ENTER) The <<SETUP MODE>> menu screen (Paper Length Check) appears. <<SETUP MODE>> Paper Length Check 2. Press prepeatedly until "Pre-pick" ap-<<SETUP MODE>> pears in the lower line of the menu screen. **Pre-pick** Press ENTER). 3. The option select screen appears with the **Pre-pick** current setting ON blinking (blinking indicates ΟŃ "changeable"). 4. Press \bigtriangledown or \land . **Pre-pick** The displayed option changes (OFF blinks). OFF 5. Press (ENTER) to save the change. <<SETUP MODE>> The LCD returns to the <<SETUP MODE>> **Pre-pick** menu screen (Pre-pick). 6. Press CANCED two times. Ready The LCD returns to the Ready screen.

Pick start time

This function sets the period from when paper is manually put on the hopper to when the pick operation starts.

LCD display	Options	Remarks
Pick start time	00.2 S to 29.8 S (Default: 01.0 S)	In units of 0.2 second

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press

<<SETUP MODE>>

The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>>

Pick start time

Pick start time

01.0 S

- 2. Press prepartedly until "Pick start time" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current setting 01.0S blinking (blinking indicates "changeable").
- Press or . The displayed option changes (00.2S to 29.8S). The value changes in 0.2 seconds.
- When the desired value appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Pick start time).
- Press CANCED two times. The LCD returns to the Ready screen.

Pick start time

05.0 S

<<SETUP MODE>> Pick start time

Ready

Manual feed timeout

This function sets the waiting time from when the host computer issues a scan command to when paper is manually put on the hopper. A manual feed timeout error occurs if this time elapses without putting paper on the hopper.

LCD display	Options	Remarks
Manual Feed Timeout	1 S to 255 S (Default: 30 S)	Unit: second

The following is an example of operation when you use this function.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- Press prepeatedly until "Manual Feed Timeout" appears in the lower line of the menu screen.
- 3. Press ENTER).

The option select screen appears with the current setting 30 S blinking (blinking indicates "changeable").

- When the desired value appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Manual Feed Timeout).

<<SETUP MODE>> <<SETUP MODE>> Paper Length Check <<SETUP MODE>> Manual Feed Timeout 30 S Manual Feed Timeout 10 S

> <<SETUP MODE>> Manual Feed Timeout

Press CANCED two times.
 The LCD returns to the Ready screen.

Ready

Paper pick retry

This function sets the pick motor rotation period and the retry count.

LCD display	Options	Remarks
Paper Pick retry	Step: 1 to 7 (Default: 2)	1 to 7: one time to seven times the standard steps
	Times: 1 to 7 (Default: 4)	1 to 7: one retry to seven retries

The following is an example of operation when you use this function.

1. In <<SETUP MODE>> initial screen, press <u>ENTER</u>. The <<SETUP MODE>> menu screen (Paper

Length Check) appears.

- Press prepartedly until "Paper Pick retry" appears in the lower line of the menu screen.
- Press ENTER. The option select screen appears with the current setting 2 (for Step) blinking (blinking indicates "changeable").
- 4. Press . The current count setting 4 blinks.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Paper Pick retry

Paper Pick retry Step: 2 Times: 4

Paper F	Pick retry	
	Times: 4	

- When the desired value appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Paper Pick retry).
- 7. Press CANCED two times. The LCD returns to the Ready screen.

Paper feed retry

This function sets the feed motor rotation period and the retry count.

LCD display	Options	Remarks
Paper Feed Retry	Step: 1 to 7 (Default: 1)	1 to 7: one time to seven times the standard steps
	Times: 1 to 7 (Default: 4)	1 to 7: one retry to seven retries

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears

2. Press prepeatedly until "Paper Feed retry" appears in the lower line of the menu screen.

Step: 2 Times: 7

Paper Pick retry

<<SETUP MODE>> Paper Pick retry

Ready

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>>

Paper Feed retry

- Press ENTER. The option select screen appears with the current setting 1 (for Step) blinking (blinking indicates "changeable").
- Press >. The current count setting 4 blinks.
- When the desired value appears, press
 (ENTER) to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Paper Feed retry).
- Press CANCED two times. The LCD returns to the Ready screen.

Paper Feed retry Step: 1 Times: 4

Paper Feed retry Step: 1 Times: 4

Paper Feed retry Step: 1 Times: 7

<<SETUP MODE>> Paper Feed retry

Ready

Function key

This function allocates setup functions to F_1 , F_2 , and F_3 buttons. You can allocate up to three setup functions.



- You cannot use this function when the setup mode is brought by pressing MENU in the Ready status.
- You cannot allocate the following functions: TP_IF Baud Rate, SCSI ID, Product ID, Setup Mode Lock, and Function Key itself.

Allocatable setup functions and other special functions	Remarks
Setup functions noted above START key EJECT key (Default: Undefined)	START: starts the operation stopped by EJECT and sends data to the host computer. EJECT: stops operation and ejects the paper in the transport unit.

The F_1 , F_2 , or F_3 button can be used as a shortcut key which enables you to access the allocated setup function just by pressing the button whenever the scanner is in the Ready state. This function is valid even in the setup mode lock state (refer to the next function). However, the F_1 , F_2 , and F_3 buttons are invalid in setup, browse, and test modes.

The following is an example of operation when you allocate START and EJECT keys to the F_1 and F_2 buttons respectively.

- In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.
- 2. Press prepartedly until "Function Key" appears in the lower line of the menu screen.
- Press ENTER.
 The function key select screen appears with F1 blinking (blinking indicates "selectable").
- 4. Press ENTER.

The F1 selection screen appears with the current setting Undefined blinking (blinking indicates "changeable").

 Press or . The setup functions, START key, and EJECT key are displayed in sequence at the lower line. <<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Function Key

Function Key F1 F2 F3

F1 selection Undefined

F1 selection	on
START ke	ey 🛛

- When START key is displayed, press ENTER. The LCD returns to the function key select screen with F1 blinking.
- Press once. F2 blinks.
- Press ENTER. The F2 selection screen appears with the current setting Undefined blinking (blinking indicates "changeable").
- Press or . The setup functions, START key, and EJECT key are displayed in sequence at the lower line.
- When EJECT key is displayed, press ENTER to save the change. The LCD returns to the function key select screen with F2 blinking.
- 11. To quit the <<SETUP MODE>>, turn off the power.

Setup mode lock

This function inhibits the operator panel from entering setup mode from normal mode, protecting the operator panel from misoperation. Once the operator panel is locked, you cannot use the setup items except those allocated to the (F1), (F2), and (F3) buttons.

You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

LCD display	Options	Remarks
Setup Mode Lock	On, Off (Default: Off)	

Function Key F1 F2 F3	
Function Key F1 F2 F3	
F2 selection Undefined	
F2 selection EJECT key	
Function Key F1 F2 F3	

To cancel the setup mode lock state, turn off the power and turn on the power while pressing the MENU button to enter the setup mode. In the setup mode, select the Setup Mode Lock function and set the option to OFF.

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<<SETUP MODE>> Setup Mode Lock

Lock" appears in the lower line of the menu screen.

Press prepatedly until "Setup Mode

2.

 Press ENTER. The option select screen appears with the current setting OFF blinking (blinking indicates "changeable").

- Press or . The displayed option changes (ON blinks).
- Press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (Setup Mode Lock).
- 6. To quit the <<SETUP MODE>>, turn off the power.

Setup Mode Lock OFF

Setup Mode Lock ON

<<SETUP MODE>> Setup Mode Lock

Language

This function is to set the LCD display English or Japanese.

LCD display	Options	Remarks
Language	English, カタカナ (Default: English)	

The following is an example of operation when you change the setting.

 <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

- Press preparedly until "Language" appears in the lower line of the menu screen.
- Press ENTER. The current option list screen appears with English blinking. (blinking indicates "changeable").
- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Language).
- Press CANCED two times. The LCD returns to the Ready screen.

<<SETUP MODE>> Language

> Language English

Language カタカナ

<<SETUP MODE>> language

Ready

White follower mode

Sets the mode how to follow the white color as the reference when scanning papers. When the whole background of a paper is colored and "1" is set in this mode, scanner scan the leading edge of the paper as the white reference. Then the background of the scanned image will be white.

- 1. About 3mm from the leading edge of a document must be the same color when setting "1".
- 2. You cannot use this function when the setup mode is brought by pressing "MENU" in the Ready status.

LCD display	Options	Remarks
White follower mode	1, 0 (Default)	0: The white background in the scanner is regarded as the white reference.1: The leading paper of the paper is regarded as the white reference.

The following is an example of operation when you change the setting.

1. <<SETUP MODE>> initial screen, press <<SETUP MODE>> ENTER). The <<SETUP MODE>> menu screen (Paper Length Check) appears. <<SETUP MODE>> Paper Length Check 2. Press prepatedly until "White follower <<SETUP MODE>> mode" appears in the lower line of the menu White follower mode screen. 3. Press ENTER). White follower mode The current option list screen appears with 0 0 blinking. (blinking indicates "changeable") 4. Press \bigtriangledown or \land . White follower mode The displayed option changes (1 blinks). 1

- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (White follower mode).
- To quit the <<SETUP MODE>>, turn off the power.

Interface board slot

This function activates one interface board while 2 interface boards are mounting.

You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

LCD display	Options	Remarks
Interface Board Slot AUTO, SLOT1, SLOT2 (Default: AUTO)		

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

 Press > repeatedly until "Interface Board Slot" appears in the lower line of the menu screen.

<<SETUP MODE>> Interface Board Slot

<<SETUP MODE>> White follower mode

- Press ENTER. The option select screen appears with the current setting AUTO blinking (blinking indicates "changeable").
- Press or . The displayed option changes (SLOT 1 or SLOT 2 blinks).
- When the desired option appears, press
 ENTER to save the change.
 The LCD returns to the <<SETUP MODE>> menu screen (Interface Board Slot).
- To quit the <<SETUP MODE>>, turn off the power.

SCSI bus width setting

This function sets the interface of the device by the type of SCSI board mounted in the host computer. Set the 16 bit (Default) when the Ultra Wide SCSI Cards is mounted and set the 8 bit when the narrow SCSI Cards is mounted in the PC.

NOTE If the SCSI board prohibits a transfer of the 16 bit width data, set the 8 bit instead. You cannot use this function when the setup mode is brought by pressing <u>MENU</u> in the Ready status.

Interface Board Slot AUTO

Interface Board Slot SLOT 1

<<SETUP MODE>> Interface board Slot

LCD display	Options	Remarks
SCSI Bus Width Setting	16 bit, 8 bit (Default: 16 bit)	

The following is an example of operation when you use this function.

In <<SETUP MODE>> initial screen, press
 ENTER
 The <<SETUP MODE>> menu screen (Paper Length Check) appears.

Press prepatedly until "SCSI Bus Width

Setting" appears in the lower line of the menu

<<SETUP MODE>>

<<SETUP MODE>> Paper Length Check

<SETUP MODE>> SCSI Bus Width Setting

- Press ENTER.
 The option select screen appears with the current setting 16 bit blinking (blinking indicates "changeable").
- Press or . The displayed option changes (8 bit).
- Press ENTER to save the change. The LCD returns to the <<SETUP MODE>> menu screen (SCSI Bus Width Setting).
- 6. To quit the <<SETUP MODE>>, turn off the power.

SCSI Bus Width Setting 16 bit

SCSI Bus Width Setting 8 bit

<<SETUP MODE>> SCSI Bus Width setting

2.

screen.

Activating the Test Mode

To activate the test mode:

- Turning power on with <u>MENU</u> pressed. The LCD indicates "Please wait" then "<<MODE SELECT>>" with "SETUP" blinking.
- Press > twice.
 "TEST" blinks (blinking indicates "selectable).
- Press ENTER.
 The <<TEST MODE>> initial screen (*) appears.
- 4. Press ENTER. The <<TEST MODE>> menu screen (**) appears.

To quit the test mode, turn power off.

Button functions in test mode

T Please wait

<<MODE SELECT>> SETUP BROWSE TEST

<<MODE SELECT>> SETUP BROWSE TEST

* <<TEST MODE>> Initial screen

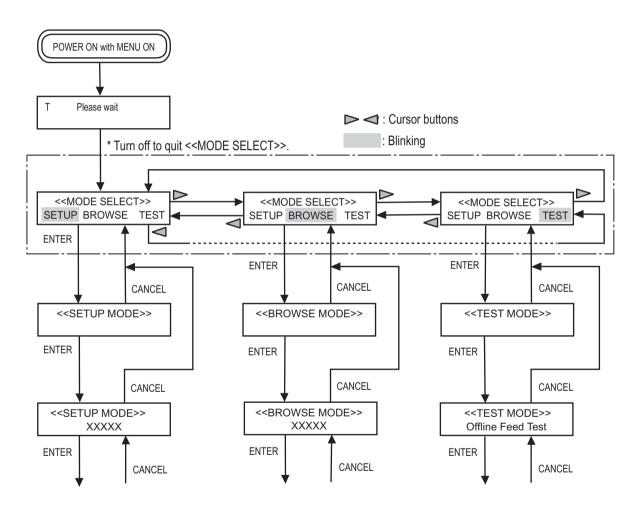
<<TEST MODE>>

** <<TEST MODE>> menu screen

<<TEST MODE>> Offline Feed Test

Button name	Function
MENU	Returns to the < <test mode="">> menu screen.</test>
ENTER	 Executes the test. Returns to the previous screen. Displays the next lower level screen.
CANCEL	Returns to the previous screen without saving the change.
	Displays the next function at the right in the menu.Moves to the right item.
	Displays the next test function at the left in the menu.Moves to the left item.
	Scrolls the option downward.
\square	Scrolls the option upward.

Mode selection (power on with MENU pressed)



Contents of the Test Mode

The test mode includes the user test functions listed in the following table. This section explains "Offline feed test", "Options", and "Device life" which are necessary for users.

If you need to use test functions other than "Offline feed test", "Options", and "Device life", contact your dealer.

The user test functions are as follows:

Test item Description	
Offline feed test	Scans sheets continuously for checking conditions of paper feeding.
* Endorser test	Implements the Endorser's Print test.
Options	Displays the options installed in the scanner.
Device life	Displays the accumulative number of sheets fed and the accumulative number of hours for lamps lit since the scanner has been installed, to estimate the life of the device.
Sensor auto adjustment	Automatically adjusts sensors.
Offset auto adjustment	Adjusts offset using adjustment sheets.
Operation panel test	Tests functions of the LCD, LEDs, and buttons to check the operator panel.
Revision Display	Displays the revision of the program EEPROM, VDC-C, Interface farmware.
Sensor status	Displays the status of the sensors.
Sensor adjustment	Changes the current and slice level of sensors to adjust the sensors.
white balance adjustment	Adjust the Amp Gain Value for R,G, B when put the white paper in to scanner.
+5V voltage check	Displays the voltage of +5 volts.
EEPROM edit	Writes arbitrary data in EEPROM (address 00 to FF) to confirm or change the set values.

* If the option is not mounted, the set up item for the option does not display on the screen and skips to the next item.

Offline feed test

This function scans sheets of paper continuously for checking entire operation of the mechanism without a host computer. You can use the Settings function in setup mode to modify scanning parameters (scanning mode, paper size/orientation, density, resolution, and halftone processing) for scanning documents.

LCD display	Test items	Remarks
Offline Feed Test	START and SETUP	START: begins the test. SETUP: changes settings of scanning parameters.

The following is an example of operation when you start the offline feed test.

- 1. Put sheets of paper on the hopper table.
- In the <<TEST MODE>> initial screen, press
 ENTER
 The <<TEST MODE>> menu screen (Offline Feed Test) appears.
- 3. Press <u>ENTER</u> again. The scanning parameters screen indicates the current parameters with START blinking (blinking indicates "selectable").
- Press D. SETUP blinks (blinking indicates "selectable").
- Press ENTER. The LCD changes to the parameter set screen with S (simplex mode) blinking (blinking indicates "selectable").
- Press . A4P (A4 size in portrait orientation) blinks (blinking indicates "selectable").

<<TEST MODE>> <<TEST MODE>> **Offline Feed Test** S A4P 200 LA START SETUP A4P 200 S LA START SETUP 200 S A4P ΙA ΙΑ S A4P 200

- Press ENTER.
 The PAPER SIZE screen appears with the current setting A4P blinking (blinking indicates "changeable").
- Press or . The displayed parameter changes (LTP, B5P, A5P, A4L, etc.).
- When the desired parameter appears, press
 ENTER to save the change.
 The parameter set screen appears with the new parameter blinking.
- 10. Press CANCEL

The scanning parameters screen appears with the new parameter replaced and with SETUP blinking (blinking indicates "selectable").

11. Press .

START blinks (blinking indicates "selectable").

12. Press ENTER.

The scanner feeds and scans documents continuously until it detects an error (usually "Hopper empty"). During feeding, the upper line indicates "Feeding!!" and the lower line indicates the number of sheets fed.

- To halt the test, press CANCED.
- To restart the test, press ENTER.
- To restart from a hopper empty status, put sheets of paper on the hopper table and press CANCED.
- To quit the offline feed test, press CANCED in the halted state.
- 13. To quit the <<TEST MODE>>, turn off the power.

A4P		
	PAPER SIZE	
	LTP	
S	LTP [11] 200 LA [1] LA	
S	LTP 1111 200 LA START SETUP	
S	A4P 1111 200 LA START SETUP	
	FoodingU	
12	Feeding!! 345678 1234	

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Options

This function displays the options installed in the scanner.

LCD display	Displayed options	Remarks
Options	Endorser	Endorser: printer that prints back side of documents.

* When an option is installed, ON is displayed under the option. When an option is not installed, OFF is displayed under the option.

The following is an example when you use this function.

- In the <<TEST MODE>> initial screen, press
 ENTER
 The <<TEST MODE>> menu screen (Offline Feed Test) appears.
- Press >. The <<TEST MODE>> menu screen (Options) appears.
- Press ENTER.
 The current options list screen appears. You can check options installed.
- 4. To quit the <<TEST MODE>>, turn off the power.

<<TEST MODE>>

<<TEST MODE>> Offline Feed Test

<<TEST MODE>> Options

Endorser	BG. Change
OFF	F:ON B:ŎN

Device life

This function displays the cumulative number of sheets fed and the cumulative number of hours during which the lamp is lit since the scanner has been installed. These values are helpful for estimating the life of devices.

LCD display	Displayed devices	Remarks
Device Life	COUNT, LAMP F, and LAMP B	COUNT: accumulative number of sheets fed. LAMP F: accumulative number of operating hours for the front-side lamp. LAMP B. accumulative number of operating hours for the back-side lamp.

* The unit of each value is not displayed on the LCD.

The following is an example operation when you use this function.

- In the <<TEST MODE>> initial screen, press
 ENTER
 The <<TEST MODE>> menu screen (Offline Feed Test) appears.
- Press > two times. The <<TEST MODE>> menu screen (Device Life) appears.
- Press ENTER.
 The current value display screen appears. You can estimate the device life.
- To quit the <<TEST MODE>>, turn off the power.

<<TEST MODE>>

<<TEST MODE>> Offline Feed Test

<<TEST MODE>> Device Life

COUNT	LAMP	F:	1234567
12345678		B:	1234567

GLOSSARY OF TERMS

A4 size

A standard paper size used in Japan and other countries. Paper size is 210 x 297 mm (8.25 x 11.6 inches).

ASCII

The acronym for American Standard Code for Information Interchange.

ASCII is a set of 128 codes (numbered 0 to 127) used to communicate information between a computer and another device such as scanner.

Automatic separation

The image processing method to detect the difference between text and photos and choose the threshold accordingly. Automatic separation allows the scanner to switch between line mode and half tone mode in one pass.

Automatic start mode (<-> manual start mode)

In this mode the reading operation is activated only by START command.

Back-side reading = Back-side scanning

Refers to reading the back-side of the document, specifically in Duplex reading mode.

Bit

The smallest unit of information in computer memory. A bit is a single digit, either a 1 or a 0, in the binary numbering system.

Eight bits equal one byte.

Browse mode

The mode in which users can glance setup conditions of the scanner in offline status.

Consumable counter

Indicates when consumables like a lamp should be replaced. The number of read document accumulates until an operator resets the counter. It should be reset when consumables are replaced.

Density

Degree of darkness of an image. Also percent of screen used in an image.

Dither

Technique for producing halftone images representing grayscale by using a pattern of the two pixel levels black and white.

dpi

Dots per inch.

Drop-out color

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

Duplex reading mode

Both sides of the document are read in this mode.

Endorser

The unit for printing characters before or after scanning. These character may be used for collation of the documents and the image data.

Equipment Error

An error that is not recoverable by operator. Call an authorized maintenance engineer.

Error diffusion

High-quality halftone (pseudo-grayscale) image production based on black-and-white pixel binarization. A pixel's optical density and that of adjacent pixels are summed, with black pixels relocated in their order of density as they relate to adjacent pixels.

The purpose of this technique is to minimize the average error between read and printed densities. Density data for adjacent pixels is modified by diffusing errors on the objective pixel into several pixels, which are then binarized. This maintains high grayscale levels and resolution during reading, while suppressing more patterns by dotted halftone images such as newspaper photo graphs.

Filtering

The quality of images written in pencil or ball-pointed pen and read depends on the reflective light characteristics of the ink or lead.

Dropped pixel's may produce out lines, gaps or thin, barely connected lines due to even optical density. Filtering detects areas lighter than their surroundings and increases their density to improve image clarity.

Front-side reading = Front-side scanning

Refers to reading the front-side of the document, specifically in Duplex reading mode.

Halftone processing

Used to reproduce photographs which usually contain different shades to display images. These shades are composed of dots resulting in a binary image. Dithering and error diffusion processing are examples of the halftone processing.

Hexadecimal

A base-16 numbering system (also commonly referred to as hex numbers). Since a base-16 system requires 16 digits, numbers 0 through 9 and letters A through F are used. It is convenient to express binary numbers in hexadecimal because fewer digits are required.

Image emphasis

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

Image processing

An image is read with specified parameters.

Initial screen

A screen displayed when the power is turned on or when reading is activated by the command from the host computer.

Interface

The connection that allows communication from one part of a system to another. For example, electrical signals are transferred between the computer and scanner over an interface cable.

Inversion (Reverse-image reading)

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

IPC-3 mode

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

IRAS

Initialization of the hardware.

Landscape

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

Letter size

A standard paper size used in the U.S.A. and other countries. Paper size is 8-1/2 x 11 inches (215.9 x 279.4 mm).

Linedrawing mode

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

Manual Feed mode = Manual Mode

Requires the operator to feed each document manually to the hopper table.

Mirror image

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

Noise removal

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

Operator panel

A panel containing the scanner indicators and buttons. The operator panel is used to control scanner operations such as loading document, selecting features, and changing setup options.

Outline extraction

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

Paper Jam

A warning informing the user that document is jammed in the transport unit, or that transportation is disabled because the transport unit is slippery. This warning also appears when a double fed is detected.

Photograph mode (White level follower OFF)

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

Photo mode = photograph mode

A photograph is read properly in this mode.

Picking start time

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

Picking time

The period from the start of picking until the document reaches SF1 sensor. Specify a little longer picking time for the document with a large friction factor.

Pick speed

A speed when a document is picked. Set the pick speed to SLOW to prevent JAM or MISS PICK.

Portrait

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

Pre-picking

A setting in which a document to be read next is placed at the front of the reading unit while the previous document is read. Setting the pre-picking makes the process speedier.

Readable status

A status when the power is turned on or when reading is activated by the command from the host computer.

Read operation

Refers to the reading operation including Simplex reading and Duplex reading.

SCSI-ID

Used to specify a particular SCSI device when the initiator selects a target or the target re-connects to the initiator.

Serial interface

A standard computer interface. Information is transferred between devices over a single wire (although other wires are used for control).

With a serial interface, an interface cable greater than 3 meters (10 feet) can be used. This is often necessary in networking environments, where the scanner may be shared.

Setup mode

In this mode, users can set a variety of functions in offline status for customizing the scanner for user requirements.

SF1 sensor

The document detection sensor. It detects the light that transmits the paper. It also detects the double feed error.

Simplex reading mode

Only the front side of the document is read in this mode. Place the documents face-up at the center of the hopper table.

Smoothing

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

Start command time-out

Occurs if START command does not arrive before the specified time after reading the previous document is complete. In this case the hopper table is lowered.

Temporary Error

An error that is recoverable by operator.

Test mode

The mode in which users can test the scanner in offline status.

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(according to EN45014)

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<u>FUJITSU LIMITED, 1-1, Kamikodanaka 4-Chome, Nakahara-Ku, Kawasaki 211-8588, Japan</u>

declares, in sole responsibility, that the following product, including the options or accessories

Product Type :I M A G ES C A N N E RModel Number :f i - 4 9 9 0 C (M 4 0 9 9 D C)Approval ID Number :S I9 9 5 1 2 2 9

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The product on safety has been evaluated to EN60950 and has been confirmed to comply with all related requirements of EN60950.

Importer / Distributor in EU :

Fujitsu Europe Ltd... 2. Longwalk Road, Stockley Park, Uxbridge, Middlesex UB11 1AB, England, U.K.

Japan, February 8, 2001

Tatsuya Tostfuku Department Maneger Director, Quality assurance Department

Reference No. : DOC-1184-137-01



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