Isw.book Page 4 Thursday, October 18, 2001 3:56 PM

Blank page

Isw.book Page -1 Thursday, October 18, 2001 3:56 PM

1

OUTLINE

Isw.book Page 0 Thursday, October 18, 2001 3:56 PM

Blank page

Isw.book Page 1 Thursday, October 18, 2001 3:56 PM

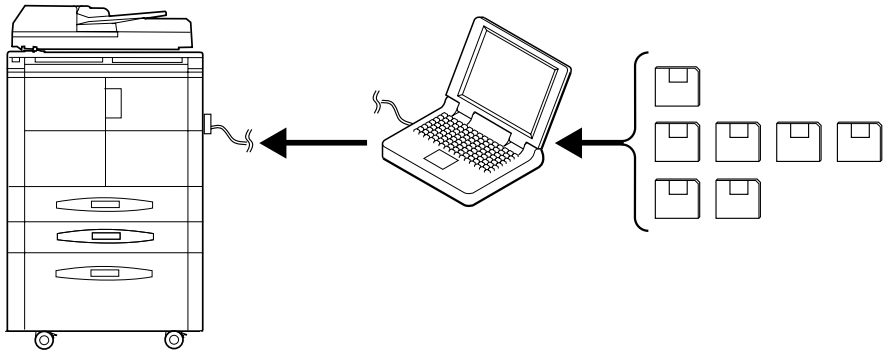
INTRODUCING ISW

ISW (In-System Writer) is a process of updating the control programs stored in flash ROM mounted on various control boards in a Minolta digital copier without isolating the boards or the ROM from the copier. Running ISW enables you to upgrade control programs without replacing the boards and maintain the boards during their replacement.

Tool available for running ISW include ISW Trns (PC software), which connects a personal computer (PC) to the digital copier.
These tool can be plugged into the ISW connector of the digital copier to update the control programs in flash ROM assembled in the copier unit and its options.

WHAT IS ISW TRNS (ISW TRANSFER)?

ISW Trns is a software utility that runs under Windows to rewrite the flash ROMs in the copier. Connect the copier to a personal computer using a parallel cable and execute this utility to rewrite the flash ROMs with data transferred from the personal computer.



Isw.book Page 2 Thursday, October 18, 2001 3:56 PM

SPECIFICATIONS

[1] ISW Trns (PC Software)

1. ISW Trns disk organization

Setup disk	: 2 disks
Update disk	: Dependent on the copier

2. Software environment

OS	: Windows 95/98
CPU	: Pentium 75 MHz or faster
RAM	: 16 MB or more
Hard disk space	: 100 MB or more
Others	: PC supporting a parallel (printer) interface port

3. Transfer time

Dependent on the copier and personal computer.

4. Prerequisites to running ISW

Personal computer (PC)	: 1 unit IBM compatible (PC/AT with a D-sub 25 pin Parallel (printer) interface)
ISW Trns setup disk	: 2 disks
Update ROM data	: Dependent on the copier
Parallel cable	: 1 (Anphenol 36-pin-D-sub 25-pin; Centronics; within 2 meters in length)

* Windows 95/98 is a registered trademark of Microsoft Corporation.
* Pentium is a registered trademark of Intel Corporation.

Isw.book Page -1 Thursday, October 18, 2001 3:56 PM

2

OPERATING INSTRUCTIONS

Isw.book Page 0 Thursday, October 18, 2001 3:56 PM

Blank page

Isw.book Page 1 Thursday, October 18, 2001 3:56 PM

UPDATING WITH ISW TRNS

[1] Setting Up ISW Trns

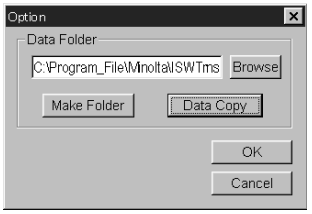
1. Installing the application program

Install the ISW Trns on the PC.

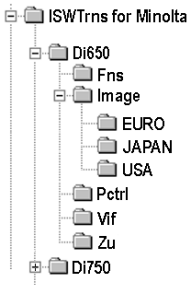
Step	Procedure
1	Boot the PC.
2	Mount setup disk 1 on the PC and double-click the [Setup.exe] icon to start the installer. **Note:** If an old version ISW Trns program is present, uninstall it first, then start the setup operation.
3	[ISW Trns setup window] Confirm the installation folder as instructed by on-screen guidance and click Next. **Note1:** By default, the program installs in [C:\Program_File\Minolta\ISWTrns for Minolta]. **Note2:** To change the installation folder, click Browse and type a new folder name.
4	[Program folder confirmation window] Confirm the ISW Trns program installation folder as instructed by on-screen guidance and click Next. **Note1:** By default, the ISW Trns program installs in [ISWTrns for Minolta]. **Note2:** To change the installation folder, either type a new folder name or select one from the list of existing folders on display.
5	[Next disk insertion request window] Mount setup disk 2 as instructed by on-screen guidance and click OK.
6	[Information dialog box] Click OK as instructed by on-screen guidance. **Note:** This procedure will add an ISW Trns icon to the Start menu.
7	[Setup completion window] Click Complete as instructed by on-screen guidance.
8	The ISW Trns install exits automatically.

2. Setting up ISW Trns

When the ISW Trns program has been installed on the PC, run it to set up a folder in which the transfer file (update data) is stored. When this setting completes, the ISW Trns program is ready to run.

Step	Procedure
1	Boot the PC.
2	[Select [ISW Trns] from the start menu to run the ISW Trns program.
3	[ISW Trns dialog box]  Click OK to set up a folder in which the transfer file (update data) is stored. **Note:** This dialog box will not appear when ISW Trns is run next time.
4	[Option window]  Set up a folder in which the transfer file (update data) is stored and click Make Folder. **Note1:** By default, the folder in which the ISW Trns program has installed (C:\Program_File\Minolta\ISWTrns for Minolta) has been set up as a storage folder (data folder). **Note2:** To change the storage folder, click Browse and select a new folder or type its full-path name in directly the edit box.

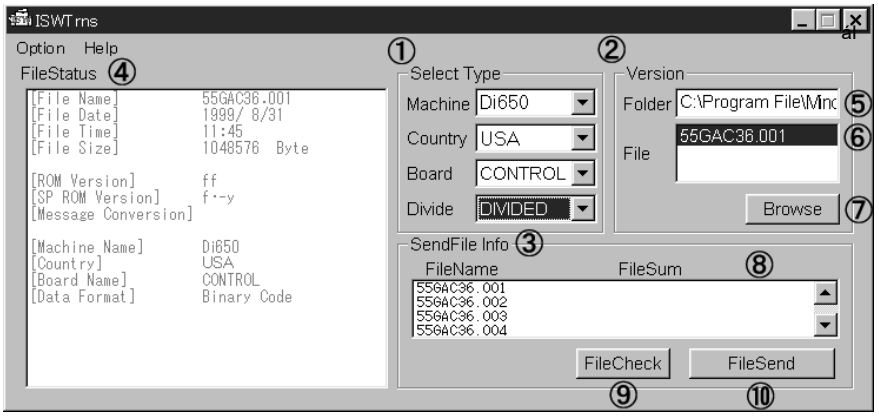
Isw.book Page 2 Thursday, October 18, 2001 3:56 PM

Step	Procedure
	Note3: Clicking Make Folder will create the following hierarchy of folders branching off from the new storage folder:  **Note:** Pctrl and Vit Indications can not be function.
5	[Option window] Click OK. **Note:** This procedure will save the data folders created in Step 4 to the INI file for the ISW Trns program.
6	[ISW Trns main window] The ISW Trns main window opens.

Isw.book Page 3 Thursday, October 18, 2001 3:56 PM

3. ISW Trns Main Window Overview

The ISW Trns program, when run, comes up with the ISW Trns main window. The ISW Trns main window lets you select, verify, and transfer a transfer file (update data) and display information in it. A detailed description of its functions follows:



* Sample display : Display information may be different from what you actually will see on your machine.

① A Select Type frame

Select conditions for a transfer file (update data). When you select all the four combo boxes, folder ⑤ isset up on the basis of the information set in the INI file.
The settings of the combo boxes selected are saved to the ISW Trns.INI file when you click File Send. The ISW Trns program comes up with the ISW Trns main window prefilled with these combo box settings when runs next time.

② Version selection frame

This frame lets you select which version of a transfer file you want transmitted when more than one version is stored in a single folder.

③ Send file information frame

List the files that are transferred actually on the basis of the information specified in frames ① and ②. Click File Check to view a checksum of each file and its consistency (OK, NG or ??).

④ File Status frame

View detailed information about the version file as it is selected in ⑥.
The table below presents differences in the ways transfer files are displayed according to their data distribution types.

Isw.book Page 4 Thursday, October 18, 2001 3:56 PM

Data sources appearing in the detailed file information list

Display title	ORIGINAL (Batch data)	DIVIDE (Divided data)
File Name	File name of the version selection file	File name of the version selection file
File Date	Date of the version selection file	Date of the version selection file
File Time	Time of the version selection file	Time of the version selection file
File size	File size of the version selection file	File size of the version selection file
ROM Version	Footer information	Footer information (last file)
SP ROM Version	Footer information	Footer information (last file)
Message Conversion	For development use	For development use
Machine Name	Header information + INI file	Header information + INI file
Country	Combo box display	Combo box display
Board Name	Header information + INI file	Header information + INI file
Data Format	Header information (Binary)	Header information (Binary)

⑤ Version Folder edit box

When Select Type frame ① is established, the full-path folder name is displayed to reflect the data folder and the INI file information set up in the option window. If the transfer file exists in a folder different from the data folder, change the folder name to that folder by using Browse ⑦ or rewriting the folder name directly.

Those transfer files in the folder that meet the INI file conditions are listed in File list box ⑥.

⑥ Version File selection list box

Lists those display files existing in the folder set in ⑤.

Display Files are marked by a wildcard name (such as 26nac*.b01) in the ISWTrns.INI file. If multiple versions of a file exist in the folder, therefore, multiple versions would appear in this list box accordingly.
Example: 26nac001AAA.bol
26nac002AAA.bol

The files in this list are sorted by name. When the list opens, the last display item in the list is preselected. Change the choice to establish the version of transfer files to transmit.

⑦ Browse Version File button

Click Browse button to open the folder selection window and select a folder for ⑤.

⑧ Send file information display list

List the names of files that are actually transmitted when a version file is selected in ⑥. A count of the number of files that are actually transmitted is indicated in a checksum file attached to each transfer file (write data). If not all the transfer files are stored in folder ⑤ or if extra files are included in it, the error message “Send files not found or invalid file name in the folder” is displayed. This check is not made.

Clicking the File Check button in ⑨ calculates a checksum of the display files as a whole and compares it with the checksum stored in the checksum file (*.SUM) attached to the transfer file (write data), displaying the result of that comparison.

Isw.book Page 5 Thursday, October 18, 2001 3:56 PM

⑨ File Check button

Click this button when send files are listed in the Send File Info list in ⑧, and a file checksum of the transfer files displayed (file checksum) is calculated and attached to each file. Further, the calculated checksum is compared with the checksum storage file (*.SUM) attached to the transfer file (write data) to display the result of the comparison in the following format:

[OK] = Matched
[NG] = Unmatched
[??] = Checksum file (*.SUM) not found

⑩ File Send Button

Perform transmission of transfer files

4. Parallel port setup

If a parallel data transfer is to be executed with the ISW Trns program, the ECP mode setting of the PC parallel port should be cleared. ISW Trns does not support parallel data transfers. If a parallel data transfer is launched with the PC set in ECP mode, the transfer could be aborted by an error occurring in between. It would be necessary, therefore, to disable ECP mode before run ISW Trns on a PC with the ECP setting.

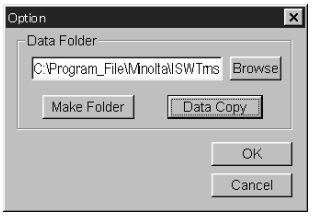
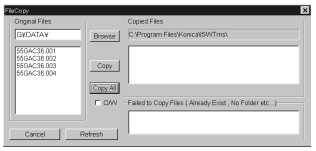
Instructions on how to disable ECP mode are given below.

Step	Procedure
1	Boot the PC.
2	Open the System icon in the Control Panel and click the Device Manager tab. Then, search for LPT1 in Ports (COM/LPT1). **Note1:** If LPT1 appears as "ECP Printer Port (LPT1)," then it is an ECP port. **Note2:** If LPT1 appears as "Printer Port (LPT1)," then it is a regular parallel port.
3	With an ECP printer port, change the BIOS setting of the PC to disable the ECP port. **Note:** Because the BIOS setting depends on the PC, check with your system administrator on how to disable ECP mode.
4	When the BIOS change is complete, open the System icon in the Control panel and change the parallel port driver.
5	Run a send test to verify the successful operation. **Note:** If a transfer succeeds on one copier model, then transfers would be successful on all models.

Isw.book Page 6 Thursday, October 18, 2001 3:56 PM

[2] Copying Transfer Data (Update Data)

Run the ISW Trns program to copy transfer data (update data) to the PC.

Step	Procedure
1	Boot the PC.
2	Select ISW Trns from the Start menu to run the ISW Trns program.
3	Click the Option menu.
4	[Option window]  Click Data Copy.
5	[File Copy window]  Mount an update disk on the PC and click Browse.
6	Select the folder on drive A that contains the transfer file (update data) as a source file. **Note1:** The selected folder is displayed in the upper section in the Original Files field. **Note2:** The transfer files (update data) that are stored in the selected folder are displayed in the lower section in the Original Files field.
7	Select the transfer files (update data) you want copied from the lower section in the Original Files field. **Note1:** You can select multipletransfer files (update data). **Note2:** To copy all the files (update data) displayed, skip this step to go to Step 8 directly.
8	Click Copy to copy the selected transfer files (update data) to the folder created at ISW Trns setup. **Note1:** To copy all the files (update data) displayed in the Original Files field, click Copy All, instead of Copy. **Note2:** The folder name created at ISW Trns setup is displayed above the Copied File field. **Note3:** The transfer files that have been copied successfully so far are listed in full-path name in the lower part of the Copied File list view. The transfer files that have not been copied successfully are listed in the Failed to Copy Files list view. Causes of copy errors: 1. A file with the same name existed and the O/W (overwrite) check box was not checked. 2. The storage destination folder could not be found. 3. Attempted to overwrite an over-write protected file. **Note4:** To update existing transfer files (update data), check the O/W (over-write) check box.
9	When the copying completes, click Refresh.
10	If more update disks are involved, repeat Steps 5 to 9.
11	Click Cancel to return to the option window.
12	[Option window] Click OK.

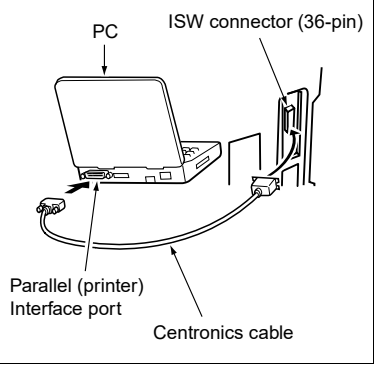
Isw.book Page 7 Thursday, October 18, 2001 3:56 PM

[3] Connecting

Connect a parallel interface cable to the copier. Prerequisites to cabling are:

- A PC to which transfer files (update data) have been copied.
- A parallel interface cable (Anphenol 36-pin-D-sub 25-pin)

Note: For instructions on how to connect a parallel interface cable to the copier, refer to the ISW section of the service manual supplied with the copier.

Step	Procedure
1	Turn OFF the copier main switch.
2	Turn OFF the PC power switch.
3	Connect the PC parallel port and the copier ISW connector with a parallel interface cable. 

[4] Updating

1. Update operation overview

Follow the steps below to update the ROM data on each control board using ISW Trns. For more operational details, see the relevant parts of this section.

Step	Procedure
1	Check the ROM version of the copier before proceeding with updating. (See 2, “Checking the ROM version of the copier (before updating).”)
2	Run the ISW Trns program. (See 4, ”Running ISW Trns.”).
3	Set the copier in ISW receive mode. (See 3, “Preparing the copier to transfer.”)
4	Select conditions for transfer files (update data) with IWS Trns. (See 5, “Selecting transfer file (update data) conditions.”)
5	Select a version of transfer files (update data) with IWS Trns. (See 6, “Selecting a version of transfer files (update data).”)
6	Verify the transfer files (update data) selected with IWS Trns. (See 7, “Verifying transfer files (update data).”
7	Transmit the transfer files (update data) with IWS Trns. (See 8, “Transmitting transfer files (update data).”)
8	To update ROM data on more control boards, repeat Steps 3 to 7.
9	Exit the ISW Trns program. (See 9, “Exiting ISW Trns.”)
10	Verify the ROM version of the copier after updating. (See 10, “Verifying the ROM version of the copier (after updating).”)

Isw.book Page 8 Thursday, October 18, 2001 3:56 PM

2. Checking the ROM version of the copier (before updating)

Before updating ROM data, check the ROM version of the existing control program in the 25 mode.

Step	Procedure
1	Turn OFF the copier main switch.
2	Turn ON the copier main switch while holding down the copy count setup buttons 2 and 5, to enable 25 mode.
3	[25 mode menu window] Check the ROM version by following the copier-specific procedure. **Note:** For operating instructions, refer to the Adjustment section of the service manual supplied for the copier.

3. Preparing the copier to transfer.

Start the copier with 25 mode enabled to put the copier into ISW transfer wait state.

Step	Procedure
1	Turn OFF the copier main switch.
2	Turn ON the copier main switch while holding down the copy count setup buttons 2 and 5, to enable 25 mode.
3	[25 mode menu window] Put the copier into ISW transfer wait state by following the copier-specific procedure. **Note1:** "ISW transfer wait state" is the state of the copier with the "START" key being shown in the display area. **Note2:** For operating instructions, refer to the Adjustment section of the service manual supplied for the copier.

4. Running ISW Trns.

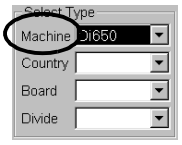
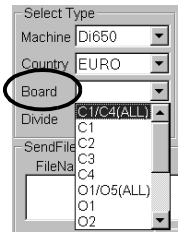
Run the ISW Trns program.

Step	Procedure
1	Boot the PC.
2	Select ISW Trns from the Start menu and run the ISW Trns program.

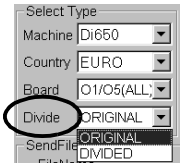
5. Selecting transfer file (update data) conditions

Select various conditions for selecting the transfer files (update data) in the ISW Trns main window. Conditions to select are:

- (Machine) The name of the model on which ROM data is updated.
- (Country) The destination of the transfer files (update data)
- (Board) The name of the board on which ROM data is updated
- (Divide) The type of the transfer files (update data)

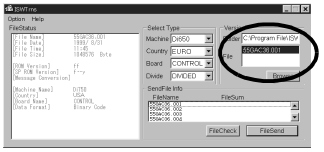
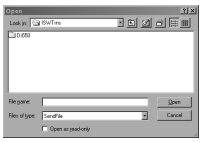
Step	Procedure
1	[ISW Trns main window] In the ISW Trns main window, click ▼ in the [Machine] field in [Select Type] and select the name of the model on which to update ROM data from the pulldown menu. 
2	In the ISW Trns main window, click ▼ in the [Country] field in [Select Type] and select the destination of the transfer files (update data) from the pulldown menu. 
3	In the ISW Trns main window, click ▼ in the [Board] field in [Select Type] and select the name of the board on which to update ROM from the pulldown menu. 

Isw.book Page 9 Thursday, October 18, 2001 3:56 PM

Step	Procedure
4	In the ISW Trns main window, click ▼ in the [Divide] field in [Select Type] and select a method of dividing the transfer files (update data) from the pulldown menu.  **Note1:** Normally, select ORIGINAL as the method of division. **Note2:** Select DIVIDED for large ROM data (e.g. for Main Control Unit), that is divided into several files (extension .001.b01, etc.) to be stored to several floppy disks for distribution.

6. Selecting a version of transfer files (update data)

When a transfer file (update data) has been chosen to meet a given set of conditions, it may be available in multiple versions. Here, select a particular version of a transfer file (update data) for use in the actual data transfer.

Step	Procedure
1	[ISW Trns main window] In the ISW Trns main window, select a transfer file (update data) of the version that is used in the actual data transfer from among the files listed in the [File] field in [Version].  **Note:** The version of a transfer file (update data) can be determined from its file name. Example: 26nac001AAAA.b01 .. Version 1 26nac002AAAA.b01 .. Version 2
2	The target file (update data) may not be shown in the [File] field in [Version], if it exists in a folder different from the data folders set in the Option screen. Click Browse and find the appropriate file to select.  **Note:** Clicking Browse will open the Select File window.

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：https://d.book118.com/596110031015010215