
TWAIN driver

User's Guide

Contents

1 Introduction

1.1	System requirements	1-1
-----	---------------------------	-----

2 Installing the TWAIN Driver

2.1	Installation procedure	2-1
	To install the software	2-1
2.2	Uninstalling	2-1

3 Importing Images

3.1	To import images	3-1
	Import procedure	3-1
3.2	Scanning Using the PUSH Scan Function	3-4
	To scan using the PUSH Scan function	3-4
3.3	Scanning Using the Prescan Function	3-6
	To scan using the Prescan function	3-6
3.4	With user authentication	3-8
	To perform the user authentication operation	3-8
3.5	With account track	3-10
	To perform the account track operation	3-10
3.6	Settings in the Main Window	3-11
3.7	Parameters on the Settings tab	3-12
3.8	Parameters on the Image tab	3-14
3.9	Parameters on the Area tab	3-15

4 Selecting the Scanning Device

	To select a device	4-1
--	--------------------------	-----

5 Registering a New Scanning Device

	To register a device	5-1
5.1	Checking Authentication Information	5-4

About this Product

With the TWAIN driver, a multifunctional product (MFP) can be used as a network scanner. The scan data can be imported into an image-processing application on the computer, where the data can be processed or edited.

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Dialog boxes

The dialog boxes shown in this manual are those that appear in Windows XP.



Note

The dialog boxes that appear in this document may differ from those that appear on your computer, depending on the installed devices and specified settings.



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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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1 Introduction

1.1 System requirements

In order to use this software, a TWAIN-compatible image-processing application must first be installed on the computer.

- Operating system
 - Windows NT Workstation 4.0 (SP6a or later)
 - Windows NT Server 4.0 (SP6a or later)
 - Windows 2000 Professional (SP4 or later)
 - Windows XP Home Edition (SP3 or later)
 - Windows XP Professional (SP3 or later)
 - Windows Vista Home Basic (SP2 or later)*
 - Windows Vista Home Premium (SP2 or later)*
 - Windows Vista Business (SP2 or later)*
 - Windows Vista Enterprise (SP2 or later)*
 - Windows Vista Ultimate (SP2 or later)*
- * 32-bit (x86) editions of Windows Vista are supported.
- Computer
 - According to the environment recommended for the operating system
- Memory
 - According to the environment recommended for the operating system
- Network
 - Computer with TCP/IP protocol settings correctly specified
- Hard disk
 - 20 MB or more of available space

2 Installing the TWAIN Driver

2.1 Installation procedure

Follow the procedure described below to install the TWAIN driver.

The enclosed User Software CD-ROM is required to install the software.

To install the software

- 1 Turn the computer on and start Windows.
- 2 Insert the User Software CD-ROM into the computer's CD-ROM drive.
 - The CD menu is displayed.
- 3 Select "TWAIN Driver" from "Scanner Install" and follow the instructions on the screen.

Installation begins and the necessary files are copied to the computer. When all of the necessary files have been copied to the computer, the Installation Completed dialog box appears.
- 4 Click [Finish].

The installation of the TWAIN driver is complete.

2.2 Uninstalling

The TWAIN driver can be uninstalled using either of the following two methods.

- Using "Add or Remove Programs" ("Add/Remove Programs" with Windows 2000)
- Using Setup.exe again



Note

Before uninstalling, quit the TWAIN driver.

3 Importing Images

3.1 To import images

Images can be imported from the image-processing application compatible with the TWAIN driver. Here, an example is given using Adobe Photoshop.

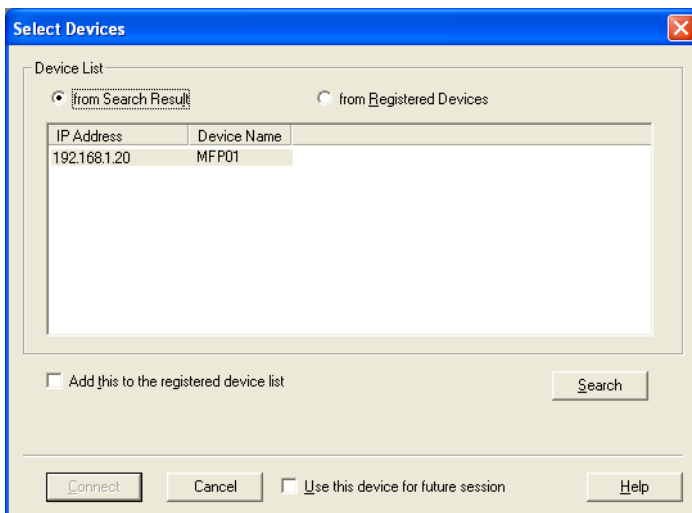


Note

If the multifunctional product is not set to allow scanner transmissions, it will not be possible to scan an image with the TWAIN driver.

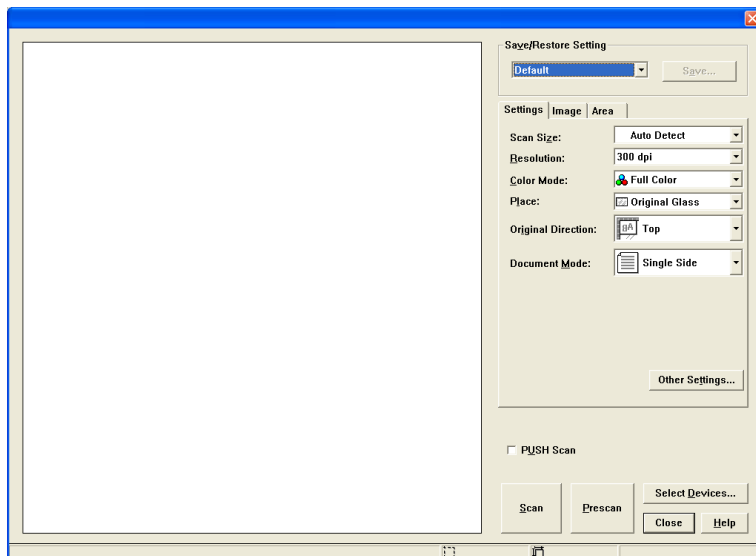
Import procedure

- 1 Start up the application to be used for processing the image.
- 2 From the [File] menu, point to [Import], and then select the TWAIN driver.
 - Depending on the program, the command "Select Device" may be available.
If this is the case, click "Select Device" and select the TWAIN driver.
Then, carry out the import operation.
The Select Devices dialog box appears.
- 3 Select the device to be connected, and click [Connect].



- If user authentication or account track settings have been specified from the device, the corresponding authentication dialog box appears. For details, refer to "With user authentication" on page 3-8 and "With account track" on page 3-10.
- If the multifunctional product is set so that scanner transmissions cannot be performed by the user that is logged on, it will not be possible to scan an image.

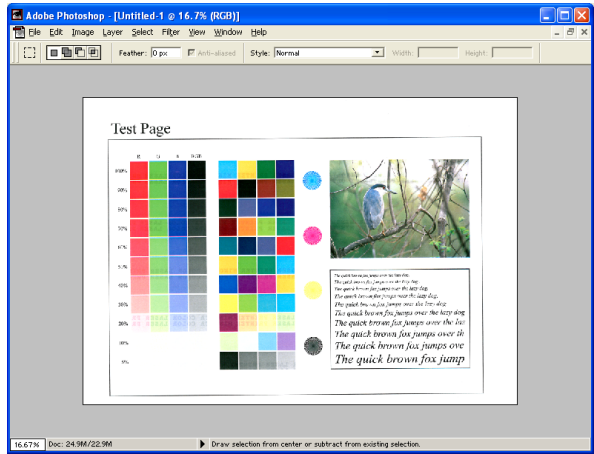
The main window appears.



- 4 Specify the scan settings.
 - For detailed descriptions of the main window, refer to "Settings in the Main Window" on page 3-11.
- 5 Load the document into the ADF or position it on the original glass.

6 Click [Scan].

The document data appears in the main window of the software.

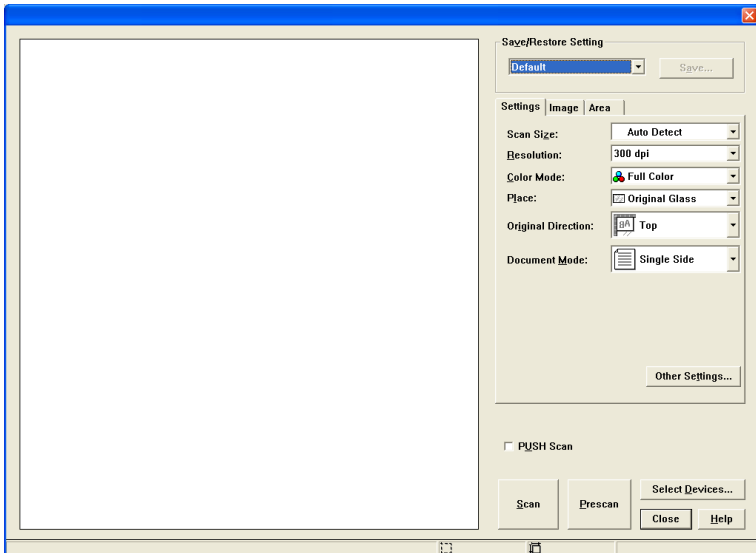


3.2 Scanning Using the PUSH Scan Function

With this method, scanning begins when the [Start] key in the control panel is pressed to scan the document.

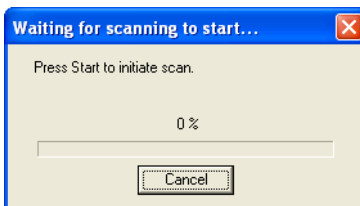
To scan using the PUSH Scan function

- 1 Display the main window.
 - For details on displaying the main window, refer to "Import procedure" on page 3-1.



- 2 Select the [PUSH Scan] check box.
- 3 Specify the scan settings.
- 4 Click [Scan].

When scanning is ready, a message appears prompting you to set the document.



- 5 Load the document into the ADF or position it on the original glass.
- 6 Press the [Start] key on the control panel.
 - If user authentication or some other authentication is specified, enter the user name and password also on the control panel of the machine before pressing the [Start] key.The document is scanned, and the image is displayed.

3.3 Scanning Using the Prescan Function

If you wish to specify the scan area or adjust the image quality before actually scanning the document, do a prescan first.

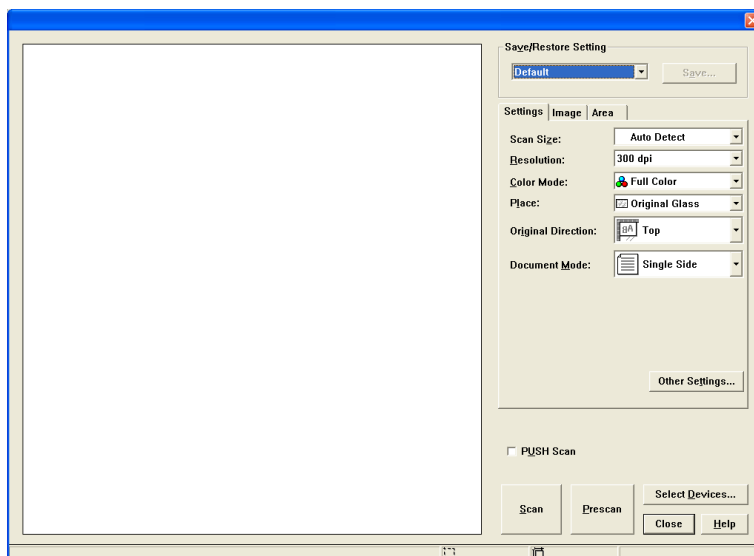


Reminder

Position the document on the original glass. The ADF cannot be used.

To scan using the Prescan function

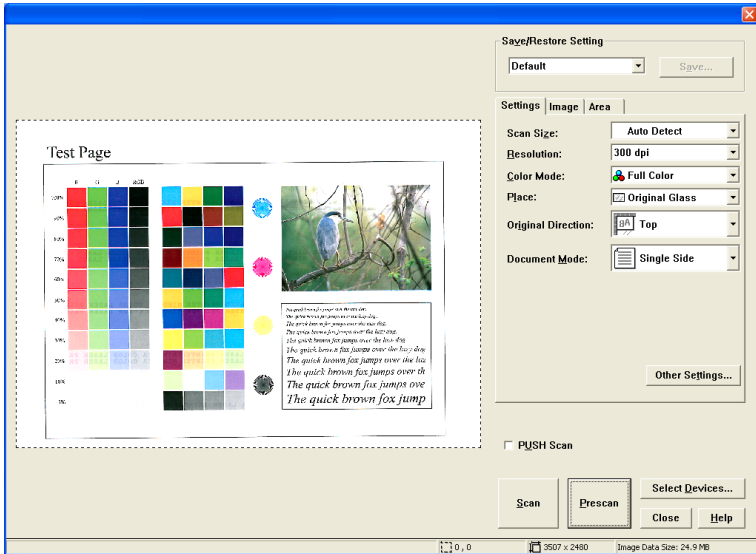
- 1 Display the main window.
 - For details on displaying the main window, refer to "Import procedure" on page 3-1.



- 2 In the [Settings] tab, set [Place] to [Original Glass].
- 3 Position the document on the original glass.

4 Click [Prescan].

The document is scanned using coarse resolution, and the image is displayed in the window.



5 Specify the scan settings.

6 Click [Scan].

The document is scanned, and the image is displayed.

3.4 With user authentication

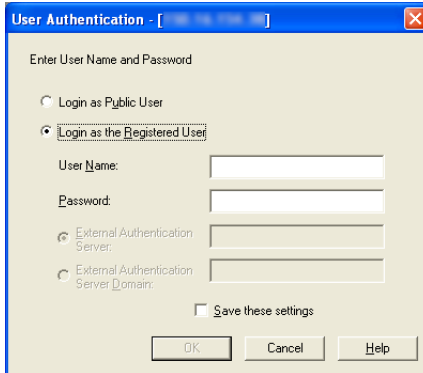
Before the main window appears, the User Authentication dialog box appears.

The user name and password specified for user authentication must be entered.

For details, consult with the machine's administrator.

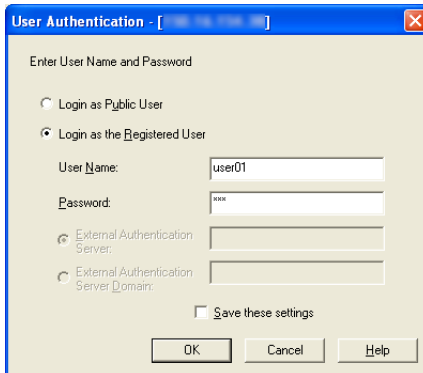
To perform the user authentication operation

- 1 Select "Login as the Registered User".



- If user authentication was set to allow a public user, this scan function can be used without entering a user name and password. Select "Login as Public User".
- To save the entered information, select the "Save these settings" check box. This allows the machine to be accessed the next time without entering the account name.

- 2 Enter the user name and password and click [OK].



- If external server authentication was selected for the user authentication setting on the device and if multiple domains have been registered, enter "@domain_name" after the user name. For example, "user01@domain" when the user name is "user01" and the domain name is "domain".

3.5 With account track

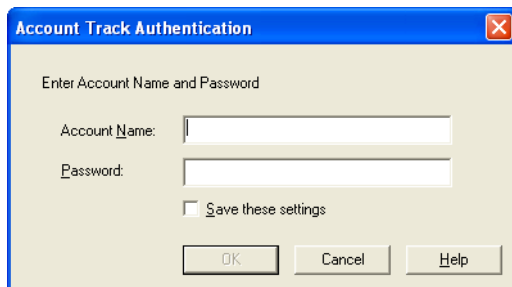
Before the main window appears, the Account Track Authentication dialog box appears.

The account name and password specified for account tracking must be entered.

For details, consult with the machine's administrator.

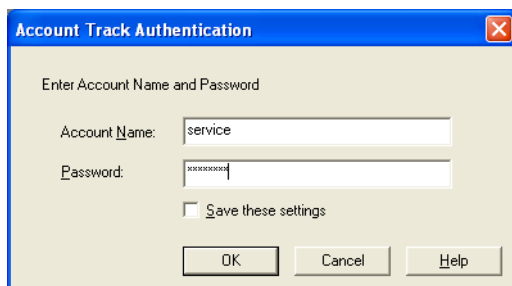
To perform the account track operation

- 1 Enter the account name and password.



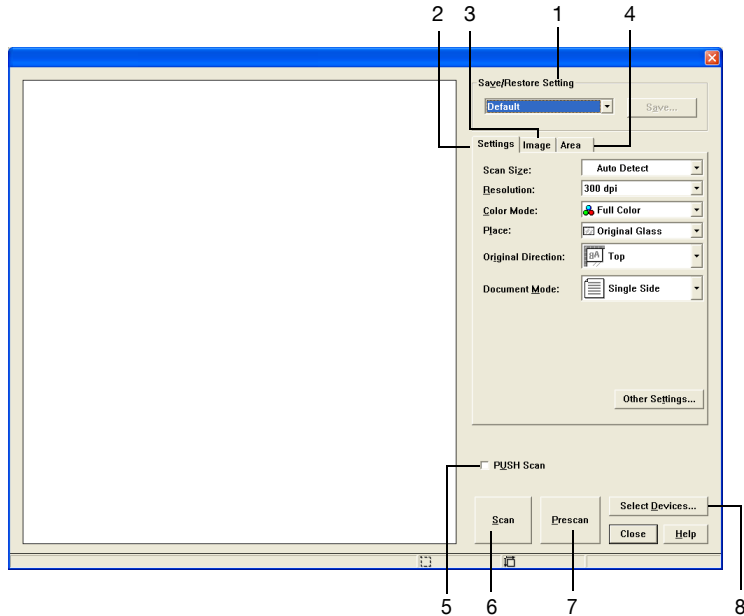
- To save the entered information, select the "Save these settings" check box. This allows the machine to be accessed the next time without entering the account name.

- 2 Click [OK].



3.6 Settings in the Main Window

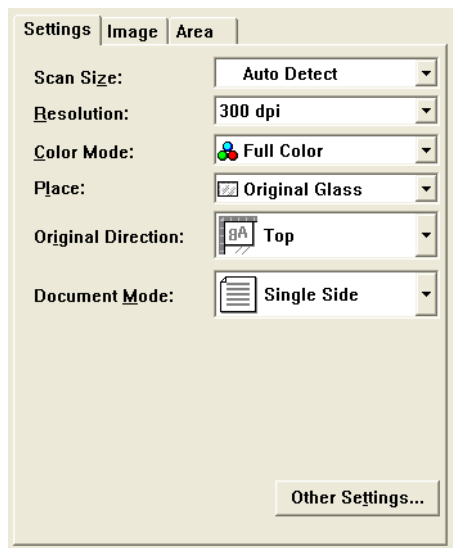
The following settings and operations are available from the main window.





No.	Item	Description
1	Save/Restore Setting	Settings can be saved and loaded at a later time.
2	Settings	Set basic scan parameters. For details, refer to "Parameters on the Settings tab" on page 3-12.
3	Image	Set image-processing parameters. For details, refer to "Parameters on the Image tab" on page 3-14.
4	Area	Specify the area to be scanned. For details, refer to "Parameters on the Area tab" on page 3-15.
5	PUSH Scan	Select this check box to start scanning when the [Start] key in the control panel is pressed.
6	Scan	Begins scanning the selected document.
7	Prescan	When the document is placed on the glass, a preview of the scanned image can be shown at a coarse resolution. Documents can be scanned efficiently by performing a prescan and adjusting the image or specifying an area to be scanned before clicking [Scan].
8	Select Devices	Click this button to change the scanning device. For details, refer to "Selecting the Scanning Device" on page 4-1.

3.7 Parameters on the Settings tab

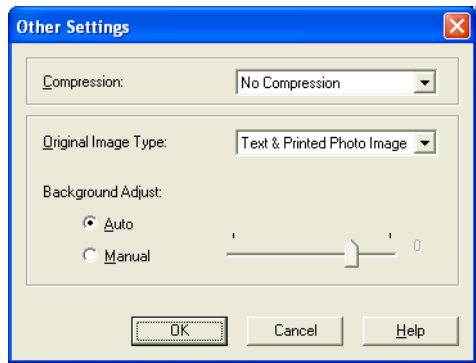
The items that can be specified are as follows:



Item	Description
Scan Size	Select the paper size to be scanned.
Resolution	<p>Set the resolution.</p> <p> ...</p> <p>Reminder <i>If a document was scanned with a resolution of 100 dpi specified from the TWAIN driver, it will appear as 200 dpi in the control panel of the multifunctional product and in job list of the multifunctional product.</i></p>
Color Mode	<p>Select the color mode.</p> <p> ...</p> <p>Reminder <i>If the multifunctional product is set so that transmissions of color documents cannot be performed by the user or account that is logged on, "Full Color" will not appear.</i></p>
Place	Select where the document is placed, ADF or glass.
Original Direction	Select the orientation of the loaded document.
Document Mode	Select 1-sided scanning or 2-sided scanning.

If you click [Other Settings], the additional items below can be specified.

Item	Description
Compression	Select the type of compression applied to the scanned data.
Original Image Type	Select the quality of the original such as text or photo.
Background Adjust	Adjust the background density. To adjust manually, select "Manual" and drag slider to set the value.



Note

Depending on the multifunctional product, some compression methods may not be available. For details, refer to the User's Guide for your multifunctional product.

3.8 Parameters on the Image tab

The items that can be specified are as follows:

The screenshot shows a software window with three tabs: 'Settings', 'Image', and 'Area'. The 'Image' tab is active. Inside, there's a section titled 'Image Enhancement'. It contains a checkbox for 'Full Enhancement' (currently unchecked), followed by five dropdown menus: 'Adjust Contrast', 'Remove Undercolor', 'Remove Background', and 'Remove Halftone', all set to 'Off'. Below these is another checkbox for 'Deskew' (unchecked). At the bottom of the 'Image' tab is a button labeled 'Apply to Prescan Image'.

Item	Description
Full Enhancement	Select this check box to automatically adjust all quality parameters on this tab.
Adjust Contrast	Select the contrast level.
Remove Undercolor	Select the level to which the background color is removed.
Remove Background	Select the level to which the background is removed.
Remove Halftone	Select the dot removal level.
Deskew	Automatically adjust the slanted image.
Apply to Prescan Image	This button is available when a prescanned image is displayed. The settings under "Image Enhancement" are applied to the image in the display area.

3.9 Parameters on the Area tab

An area can be specified only when the prescanned image is showing. The coordinates and position of the dotted line area that is currently in view can be verified or specified.

SettingsImageArea

Scan Area

Origin X:

0

Origin Y:

0

Width:

5100

Height:

3507

Unit:

Pixel

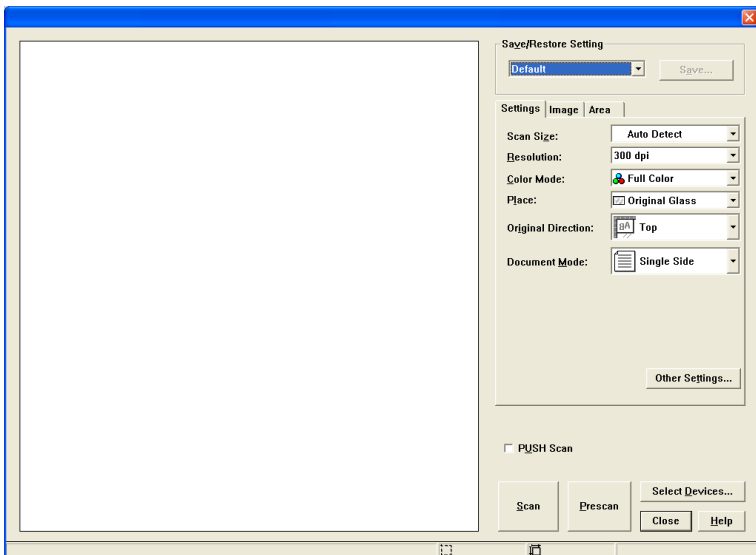
Item	Description
Origin X	Displays the X value of the origin.
Origin Y	Displays the Y value of the origin.
Width	Displays the image width.
Height	Displays the image height.
Unit	Select the unit for the value.

4 Selecting the Scanning Device

Scanning devices on the network can be searched and selected. This is used when searching for devices for the first time on the network or when searching for newly added devices.

To select a device

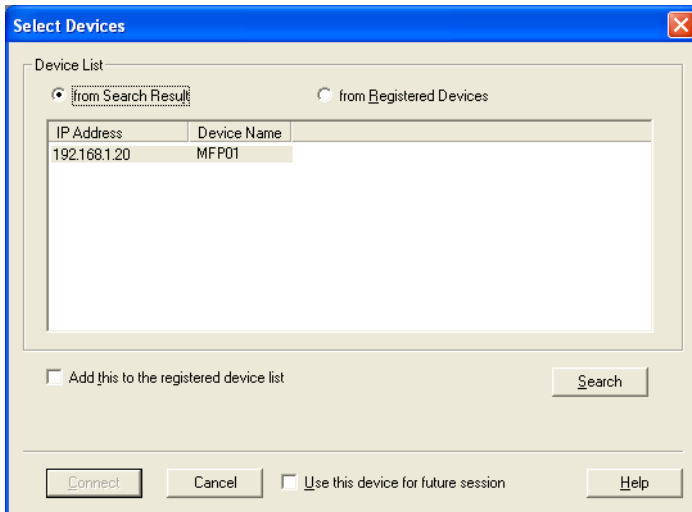
- 1 Display the main window.
 - For details on displaying the main window, refer to "Import procedure" on page 3-1.



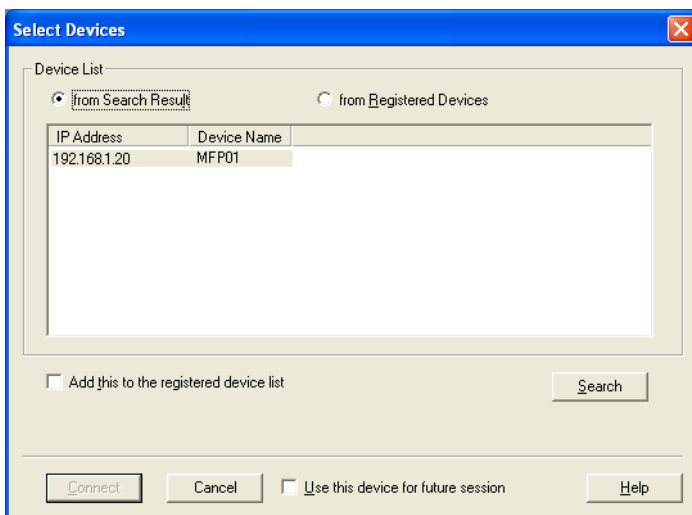
- 2 Click [Select Devices].

The Select Devices dialog box appears.

- 3 Select how the device is to be selected. Select either "from Search Result" or "from Registered Devices".

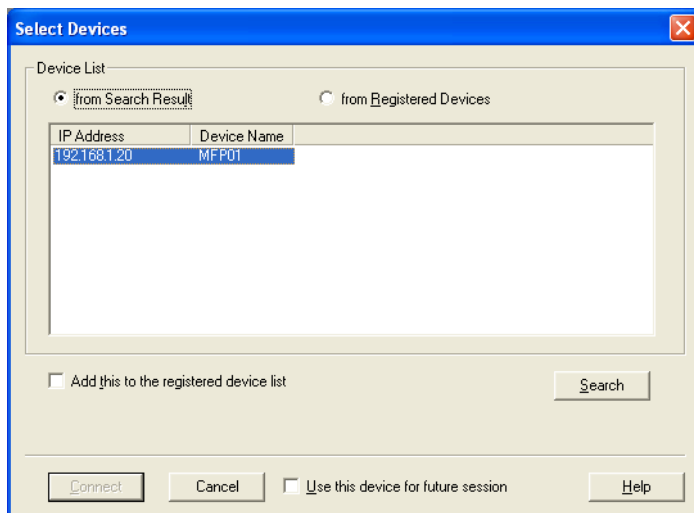


- 4 When "from Search Result" is selected, searching automatically starts. A list of selectable devices is displayed.



- 5 Click the name of a device to select it, and then click [Connect].
- To register the device when a connection is established, select the "Add this to the registered device list" check box.
 - If user authentication is enabled on the scanning device, enter the user name or password.

The Select Devices dialog box is closed and the main window appears again.



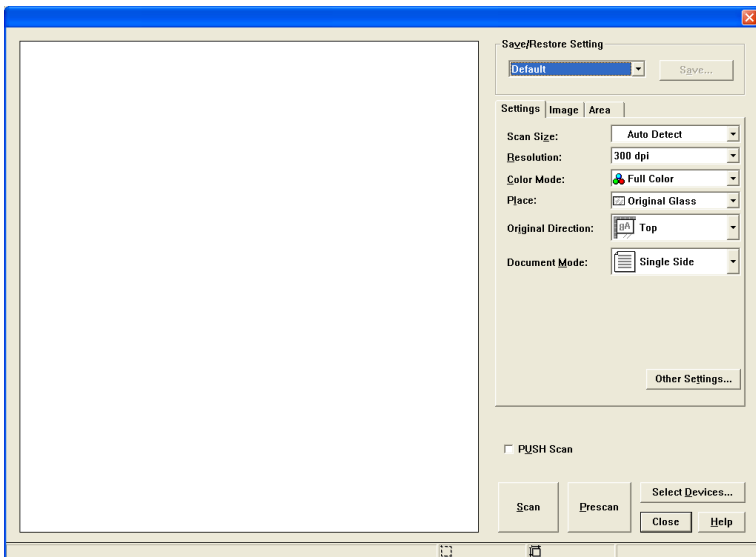
5 Registering a New Scanning Device

Devices that are currently connected can be registered to a list. This list eliminates the hassle of having to search the network every time to make a connection.

A maximum of 20 devices can be registered in the list.

To register a device

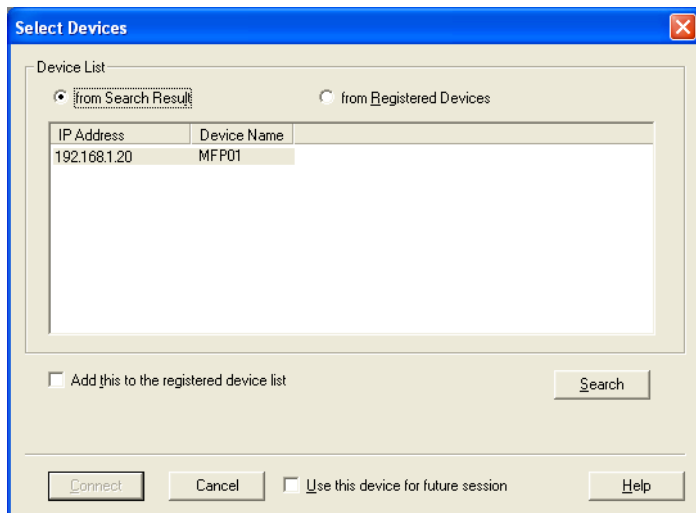
- 1 Display the main window.
 - For details on displaying the main window, refer to "Import procedure" on page 3-1.



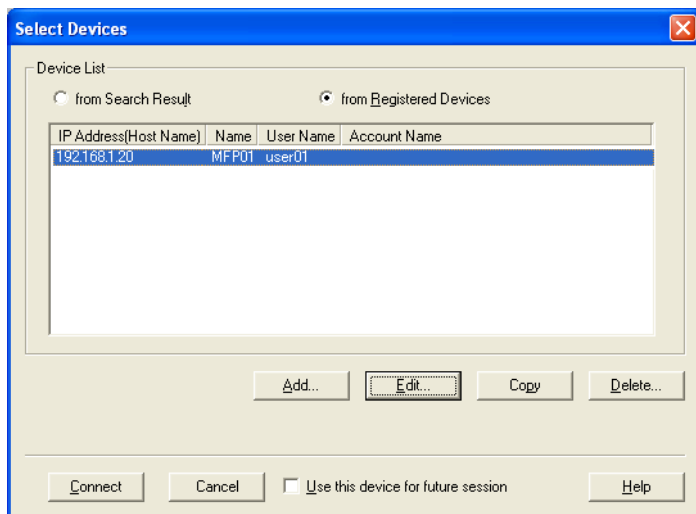
- 2 Click [Select Devices].

The Select Devices dialog box appears.

3 Select "from Registered Devices".

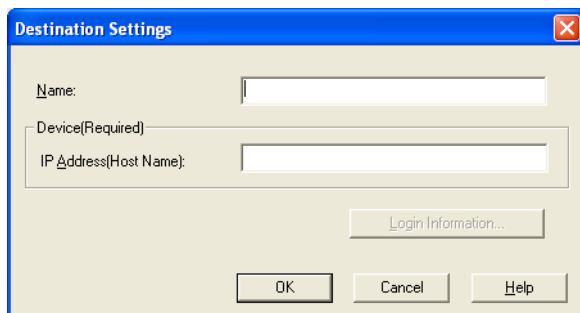


4 Click [Add].



The Destination Settings dialog box appears.

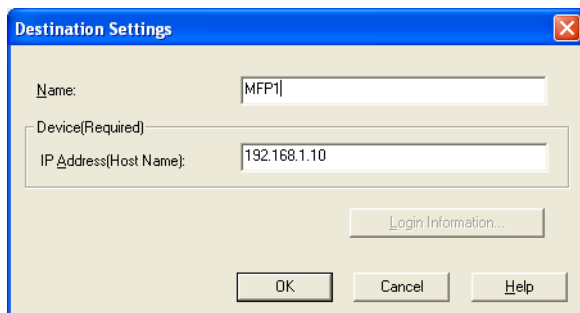
5 Type in the device information.



The image shows a 'Destination Settings' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog has a light beige background. It contains two text input fields: 'Name:' and 'IP Address(Host Name):'. The 'Name:' field is empty. The 'IP Address(Host Name):' field is also empty. Below these fields is a button labeled 'Login Information...'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

- The items that are entered are as follows:
In the "Name" box, type in the name of the device.
In the "IP Address (Host Name)" box, type in the IP address or host name for the device.
Login Information: If user authentication or account track settings have been applied, the information can be verified.

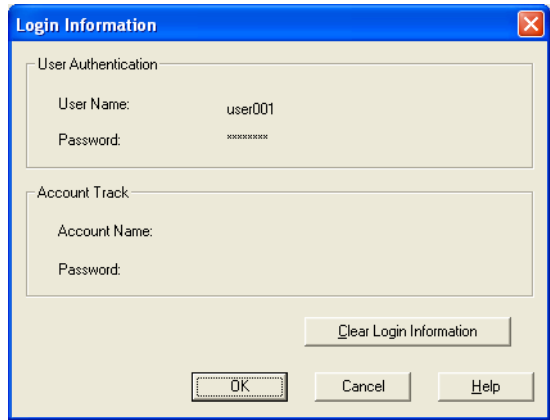
6 Click [OK].



The image shows the same 'Destination Settings' dialog box as before, but now with values entered in the text fields. The 'Name:' field contains the text 'MFP1'. The 'IP Address(Host Name):' field contains the text '192.168.1.10'. The 'Login Information...' button is still present. The 'OK', 'Cancel', and 'Help' buttons are at the bottom.

5.1 Checking Authentication Information

Click [Login Information] in the Destination settings dialog box to display the specified authentication information.



Item	Description
User Authentication	Shows the user name and password specified for user authentication. The password appears as "xxxx".
Account Track	The department name and password for volume track are displayed. The password appears as "xxxx".
Clear Login Information	Click to clear the currently specified authentication information.

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