A09M-9552-01

# Authentication Unit (Biometric Type AU-101)



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# 1 Introduction

Thank you for choosing this device.

This User's Guide provides descriptions of the operating procedures and precautions for using Authentication Unit (Biometric Type) AU-101. Carefully read this User's Guide before using this device.

The actual screens that appear may be slightly different from the screen images used in this User's Guide.

Authentication Unit (Biometric Type) AU-101 is hereafter referred to as "this device".

Manual conventions

- Caution: This warns of a possibility of damage to this device.
- **Important**: This indicates instructions that should be followed to ensure correct functionality and efficiency of this device.

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## 1.1 Product features

This device is a biometric authentication system that performs user authentication by scanning vein patterns in a finger. Logon and print job operations can be authenticated with finger vein patterns when using multifunctional products with user authentication settings specified.

## 1.2 Prerequisites

- Refer to "5 Specifications" on page 38.
- The optional local interface kit and working table must be installed on the multifunctional product.



## Note

In order to use this device, multifunctional product settings must be specified by the technical representative.

# 2 Device description

## 2.1 Part names and their functions





No.	Part name	Description
1	Status indicator	Indicates this device's status.
2	Security slot	Used for connecting the security cable to prevent thefts. (complies with the security cable standards of the Kensington Computer Products Group)
3	USB port (type mini-B)	Used to connect a USB cable (mini-B plug).

The status of this device is indicated by a status indicator and tone.

Status indicator	Device status
Lit (green)	Standing by/authentication completed
Flashing (green)	Authenticating/scanning
Lit (red)	Authentication failed/scanning failed
Off	This device is not detected.
Tone	Device status
One short beep	Starting to scan
One short beep	Retrying after authentication failed
One short beep	Authentication completed
Two short beeps	Authentication failed



In order to use this device, user finger vein patterns must first be registered with the machine. A registered user can log on to a multifunctional product or print a print job after completing authentication with their finger vein patterns. The following procedures describe how to specify the necessary settings on the multifunctional product, register users, and perform the logon and print job operations after completing authentication.

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#### Note

Align the index finger with the indentation and notch in the scanner, and then position the finger so that the tip lightly touches the edge of the scanner. Place your thumb and middle finger down to hold this device in place on both sides, and avoid moving the index finger being used for authentication.

For details on positioning the finger on this device, refer to the Quick Guide Authentication Unit (Biometric Type AU-101).

#### Important

- Do not place any object other than your finger in the scanner of this device while scanning, otherwise the device may malfunction.
- Do not disconnect the cable connecting the device to the computer while scanning, otherwise the system may become unstable.

## 3.1 Multifunctional product settings



#### Detail

User authentication on the multifunctional product must be set for machine authentication.

1 From the control panel of the multifunctional product, touch [User Authentication/Account Track] on the Administrator Settings screen, and then touch [General Settings].

- 3
- 2 Set "User Authentication" to "ON (MFP)", and then touch [OK].



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## Reminder

External server authentication is not supported.

When combined with account track settings, set "Synchronize User Authentication & Account Track" to "Synchronize". If "Do Not Synchronize" is selected, the Touch & Print function cannot be used.

- **3** Touch [Authentication Device Settings], then [General Settings], then [Bio Authentication].
- 4 Select the desired settings under "Beep Sound" and "Operation Settings".

Destaurt	Select the authentication device settings for bio authentication.				
BOOKIIIdr K	Administrator	Settings >	General Settings	> Bio Authentication	Settings
Utility					
Administrator Settings					
Authentication Device Settings	Beep Sc	und		Operation Settings	
Conoral Sottings	ON			1-to-many authentication	
	OFF			1-to-1 authentication	
Bio Authen- tication Set	11/15/2006 11 Nomory 10	: 42			ОК

- Under "Beep Sound", select whether or not a beep is produced when scanning of the finger vein pattern is completed successfully.

Under "Operation Settings", select the logon method after registration.

1-to-many authentication: Logon is possible simply by positioning the finger.

1-to-1 authentication: Logon is possible by entering a user name and positioning the finger. If users are registered with "1-to-1 authentication" selected, the Touch & Print function cannot be used.

- For details on logging on, refer to "Logging on to a multifunctional product" on page 23.
- 5 Touch [OK], and then touch [OK] in the next screen that appears.
- 6 Touch [Touch & Print Setting].



7 Select the printing method for the Touch & Print function.



- Print All Jobs: Select this setting to print all documents after completed authentication once when multiple documents are saved in the Touch & Print user box.
- Print Each Job: Select this setting to print one document saved in the Touch & Print user box each time authentication is completed.
- If "OFF" is selected, the Touch & Print function cannot be used.

- For details on the Touch & Print function, refer to "Touch & Print function" on page 25.
- 8 Touch [OK].
- 9 Touch [Logoff Settings].
- **10** Select whether or not the user is logged off when scanning of the document is finished after the user has logged on to this machine.



- 11 Touch [OK].
- 12 Touch [Close], and then touch [Close] in the next screen that appears.

## 3.2 Registering users

There are two methods for registering users.

- Connecting this device to the multifunctional product and registering directly from the multifunctional product
- Connecting this device to a computer and registering using Data Administrator



## Detail

Registered user data is stored on the hard disk of the multifunctional product. If the user authentication method on the multifunctional product is changed or the hard disk is reformatted, the registered user data is erased.

AU-101

# 3.2.1 Registering from the control panel of the multifunctional product

- 1 From the control panel of the multifunctional product, touch [User Authentication/Account Track] on the Administrator Settings screen, and then touch [User Authentication Settings], then [User Registration].
- 2 Touch the button for a registration number, and then touch [Edit].

Destaurt	After selec	ting the use	r, touch [Ec	lit].		
BOOKIIIAFK	Administra	itor Settings	> Authentic	cation Syste	n > User Regi	stration
Utility	001	002	003	004	005	1/ 26
Administrator	006	007	008	009	010	
Settings	011	012	013	014	015	
Authentication/	016	017	018	019	020	
Authentication System		Edit		elete		
User Registration	11/15/2006 Hemory	11:48 100%				Close

**3** Touch [Register Auth. Info.].

	Select the item to be registered/changed.
BOOKIIdrk	Administrator Settings > User Registration > Edit
Utility	User Name
	Password
Administrator Settings	E-Hail Address
Authentication System	
User Registration	Output Permission Hax Allowance Set REEAS Proc.
Edit	11/15/2006 11:48 Henory 1008



4 Touch [Edit].



- 5 Position the finger on this device to scan the finger vein pattern.
  - Scan the finger vein pattern three times, removing and repositioning the same finger, and touch [OK] after each time.

	Position your finger to register bio authentication.					
Bookmark	Administrator	Settings > Authentication	Information > Register [	3io Auth.		
Utility Administrator Settings		Place your finger on device, and then touc	the authentication ch TOKI.			
Edit		1st of 3	times			
Register Auth. Info.						
Register Bio Authentication	11/15/2006 1 Henory 1	1:50	Cancel	Close		

- 6 Touch [Close], and then touch [Close] in the next screen that appears.
- 7 Type the user name and the password.
- 8 If desired, specify the function limitations.
- 9 Touch [OK].
- 10 Touch [Close].

## 3.2.2 Registering from Data Administrator

In order to use Data Administrator, settings must be specified on the multifunctional product and the setup procedure must be performed. The setup procedure includes installing this device's BioDriver(USB-Driver), then installing Data Administrator Bio Plugin.

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#### Reminder

Data Administrator ver. 3.0 or later must first be installed on the computer. For details on the operating environment and installation procedure for Data Administrator, refer to the User's Guide for the Data Administrator.

## Setup

- 1 Turn off the multifunctional product with the main power switch, and then disconnect this device from the multifunctional product.
- 2 Install BioDriver(USB-Driver).

Plug the cable from this device into the USB port on the computer. The Found New Hardware Wizard starts.

3 Select "Yes, now and every time I connect a device", and then click [Next].



4 Insert the application CD-ROM included with this device into the CD-ROM drive of the computer.

AU-101

5 Select "Install from a list or specific location (Advanced)", and then click [Next].



6 Select the "Include this location in the search" check box, check that the application CD-ROM appears as a location to be searched, and then click [Next].

Found New Hardware Wizard
Please choose your search and installation options.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
✓ Include this location in the search:
D:\BioDriver(USB-Driver)
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
<u> </u>

 If the application CD-ROM does not appear as a location to be searched for the driver, click [Browse], select the BioDriver (USB-Driver) folder on the CD-ROM, and then click [OK].

Browse For Folder					
Select the folder that contains drivers for your hardware.					
Desktop     Destrop     My Documents     My Computer					
🕀 🧐 My Network Places					
To view any subfolders, click a plus sign above.					
OK Cancel					

The installation begins.

Found New Hardware Wizard		
Please wait while the wizard searche	s	
USB Device	3	
	<a>Back</a> Next> Cancel	)

7 Click [Finish].



8 Repeat steps 5 through 7.

The installation of BioDriver(USB-Driver) is completed.

9 Install Data Administrator Bio Plugin.

Open the DA\_Bio\_Plugin folder on the application CD-ROM, and then click "setup.exe".

10 Select the language, and then click [OK].



The installer starts up.

**11** Follow the instructions that appear on the screen to complete the installation.

## 12 Click [Next].



13 Select "I accept the terms of the license agreement", and then click [Next].

🖟 MFP Utility PlugIn for Biometric Authentication Unit AU101					
License Agreement Please read the following license agreement carefully.					
Please choose the language to display the End User License Agreement.					
English					
Software End User License Agreement					
PLEASE READ CAREFULLY THE LICENSE AGREEMENT BELOW BEFORE OPENING THE PACKAGE OF THIS SOFTWARE ("SOFTWARE"), DOWNLOADING, INSTALLING OR USING THE SOFTWARE. OPENING THE PACKAGE, OR DOWNLOADING, INSTALLING OR USING THE SOFTWARE SHALL BE DEEMED YOUR LAWFUL ACCEPTANCE OF THE TERMS AND					
⊙ I accept the terms in the license agreement ○ I go not accept the terms in the license agreement					
InstallShield					
< Back Next > Cancel					

👹 MFP Utility PlugIn for Biometric Authentication Unit AU101	X
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	

## 15 Click [Finish].



Data Administrator Bio Plugin is installed, and the setup is completed.

## Registering users

#### ∿ Detail

In order to register users with Data Administrator, this device must be connected to the USB port of the computer, and the computer and multifunctional product must be connected over a network.



- 1 If this device is connected to the multifunctional product, turn off the multifunctional product with the main power switch, and then disconnect this device.
  - If this device is connected to the computer, continue with step 4.

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## Note

- When the multifunctional product is turned off, then on again with the main power switch, wait at least 10 seconds to turn the machine on after turning it off. The machine may not operate correctly if it is turned on immediately after being turned off.
- Hold the plug when plugging and unplugging the USB cable, otherwise the cable may be damaged.
- 2 Turn on the multifunctional product with the main power switch.
- 3 Connect this device to the USB port of the computer installed with Data Administrator.

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## Reminder

- Do not connect other USB devices to the same port where this device is connected. If enough USB power is not provided, this device may not operate correctly.
- When using a USB hub, be sure to use a self-powered USB hub that can provide 500 mA or more.
- After connecting this device, wait at least 5 seconds before operating it.
- 4 Start up Data Administrator, and then import the device information for the multifunctional product.
  - For details on importing the device information, refer to the User's Guide for Data Administrator.

The Device information pane appears.

🖳 Data Administrator - [Device inf	formation - Default Group:sample:192.168.0.8 - Device 📒 🔲	$\times$
🔋 Eile Edit Device Processing Tool	Window Help _ a	×
🖄 🕪 92		
Function selection:	Device information:         Device information:         Item       Value         Registering name       sample         Group name       Defull Group         Model name       Generic         Device address       192,168.08         Image: Sample address       192,168.08         Image: Sample address       192,168.08         Image: Sample address       192,169.08         Image: Sample address       2/27/2007,917,00 AM         Image: Sample address       102,127/2007,917,00 AM         I	
Help(F1)	Befresh from the device	

5 Select "User authentication settings" in the Function selection pane, and then click [Add].

📕 Data Administrator - [Device information - Default Group:sample:192.168.0.8 - User a 🔳 🗖 🗙						
In the Edit Device Processing Tool	ligi Ele Edit Device Processing Iool Window Help ∂ × I → Ω 22					
F <u>u</u> nction selection:	User list:		0 / 800 item(s)			
Device information(sample)     Authentication settings	Status	User name	E-Mail address	•	<u>A</u> dd	
Account track settings				ø	Edjt	
External Server				70	Dejete	
L 🕲 User box					<u>C</u> olumn option	
Help(F1)	) Befre	sh from the device	<b></b>	xport to	o the device	

6 Select a template, and then click [OK].

Select	Select user template							
Please	select an user temp	blate.						
No.	Template name	Permitted function	Max allo	wance management				
1*	system	Permit all						
2	Name is not s	Permit all						
ľ								
Li ala (E	0							
neipir	Ш			ОК	Cancel			

The User settings dialog box appears.

7 Type in the user name and password, click the Vein Authentication tab, and then click [Import].

User settings		×
Use <u>r</u> Name*:	user01	
Pass <u>w</u> ord:	NERDEREN	
E-M <u>a</u> il Address:		_
Account Information		•
Maximum counter settings Maximum r	number of boxes Reference Allowed Setting Vein Authentication	►
Vein Authentication data	Unregistered Import	
	¥7	
	Dejete	
Help(F1)	": Required field OK Cancel	

- If desired, type in the e-mail address.

- 8 Position the finger on this device, and then click [Start reading].
  - Scan the finger vein pattern three times, removing and repositioning the same finger each time.

Registerin	g Vein Authentication	
User Name		
Result:		
Step	Status	Т
1st	-	Start reading
2nd 3rd	-	I
- Cru		
In order to	improve the accuracy of vein data, the vein is photographed 3 tim	es.
Place your	finger on the vein reader and click the [Start reading] button.	
Lift and pla	ce your finger again for each photo.	
	<u>R</u> egister	Cancel

9 Click [Register].



## **10** Click [OK].

- Repeat steps 5 through 10 until all users have been registered.

User settings		X
Use <u>r</u> Name <sup>*</sup> :	user03	_
Pass <u>w</u> ord:	жжжжже	_
E-M <u>a</u> il Address:		_
Account Information		•
Maximum counter settings Maximum	number of boxes Reference Allowed Setting Vein Authentication	F
Vein Authentication data	Unregistered Import	
	Delete	
	E, Dobro	
		-
Help(F1)	*: Required field OK Cancel	

## **11** Click [Export to the device].

Data Administrator - [Device info	ormation -	Default Group:s	ample:192.168.	0.8 -	User a 💶 🗖 🗙
A AN OO		μ			
Function selection:	<u>U</u> ser list:		3 / 800 item(s)		
Device information(sample)     Device information(sample)     Device information(sample)     Authentication settings     Device the settings     Device the settings     Device the settings     User authentication setting     User box	Status Add Add Add Add	User name user01 user02 user03	E-Mail address user01@test.L. user02@testL. user03@testL.		Add Edjt Dejete
	<		>		
Help(F1)	<u>R</u> efres	h from the device	8	E <u>x</u> port t	to the device

- To change the registered data, select the user name, and then click [Edit].



## 12 Click [Write].

Export to the devic		×
Write the edited data to	he device?	
Group name:	Default Group	1
Registering name:	sample	
Device address:	192.168.0.8	
Help(F1)	Write. Cancel	1
<u></u>		

The registered user data is specified on the multifunctional product.

#### , Detail

Data Administrator is equipped with a batch copy feature that allows the registered user data to be specified on multiple multifunctional products specified to be used with this device.

13 Click [OK].



- **14** Disconnect this device from this USB port of the computer.
- **15** Turn off the multifunctional product with the main power switch, connect this device, and then turn on the multifunctional product with the main power switch.



## Note

- When the multifunctional product is turned off, then on again with the main power switch, wait at least 10 seconds to turn the machine on after turning it off. The machine may not operate correctly if it is turned on immediately after being turned off.
- Hold the plug when plugging and unplugging the USB cable, otherwise the cable may be damaged.

## 3.3 Logging on to a multifunctional product

Follow the procedures described below to log on to multifunctional products by completing authentication with finger vein patterns.

## When "1-to-many authentication" has been specified

- Job List
   Enter user name and password, and then touch (LODIN). Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).

   Bid withink touch (LODIN).</
- → Position the registered finger on this device.

The user is authenticated, and the Basic screen appears.



## When "1-to-1 authentication" has been specified

**1** Type in the user name.

Job List	Authentication is enabled by entering user name and then performing bio authentication or by entering the user name and password.
	Public User Access
Name Status	User Name
	User Name List
	Password
Job Details	Login
Y M C K	02/22/2007 13:10 Henory 100%

2 Position the registered finger on this device.

The user is authenticated, and the Basic screen appears.



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#### Note

If authentication fails many times, the authentication data may not be registered correctly. Therefore, register the user again.

## 3.4 Touch & Print function

Print jobs sent from a computer are saved in the Touch & Print user box on the multifunctional product and can be printed after authentication is completed with finger vein patterns. This is called the Touch & Print function.

In addition, documents saved in the Touch & Print user box can be checked and specified to be printed from the control panel of the multifunctional product.

The following printer drivers and computer operating systems are compatible with the Touch & Print function.

Printer driver	Page description language	Supported operating systems
PCL Driver	PCL6	Windows NT 4.0 (Service Pack 6a), Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition/Professional (Service Pack 2 or later), Windows XP Professional x64, Windows Server 2003, and Windows Server 2003 x64
PostScript Driver (PS driver)	PostScript3 Emulation	Windows 2000 Professional (Service Pack 4 or later), Windows XP Home Edition/Professional (Service Pack 2 or later), Windows XP Professional x64, Windows Server 2003, and Windows Server 2003 x64
PostScript PPD driver (PS-PPD)		Mac OS X 10.2, Mac OS X 10.3, and Mac OS X 10.4

## Q

## Detail

To use the Touch & Print function, select "1-to-many authentication" under "Operation Settings" and set "Touch & Print Setting" to "ON".

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## Note

For details on the printer driver settings and Box mode functions, refer to the User's Guide included with the multifunctional product.

## 3.4.1 Touch & Print (For Windows)

## Specifying settings on the Configure tab

- For Windows 2000/NT 4.0, click the [Start] button, point to "Settings", and then click "Printers".
   For Windows XP/Server 2003, click the [Start] button, and then click "Printers and Faxes".
  - If "Printers and Faxes" does not appear in the Start menu, open the Control Panel from the Start menu, select "Printers and Other Hardware", and then select "Printers and Faxes".
- 2 Right-click the icon of the installed printer, and then click "Properties".

è =	010.000	(10 CTO)	PCL Properti	ies					?
Ger	neral Sharing	Ports Adv	ranced Color I	Management Cor	figure Device Paper Finishe Punch Hard D User / Accou	Settings Option Source Unit of Unit Unit Unit Unit Unit Unit Set D	LU-301 FS-608 PK-512 (2/3-H Installed Device Enable titing evice	lole)	
	Paper Tray   Tray Tray1 Tray2 Tray3 Tray4 LCT	Size 8 1/2x11 8 1/2x11 8 1/2x11 8 1/2x11 8 1/2x11 8 1/2x11 9 1/2x11	Direction LEF LEF LEF LEF LEF LEF	Paper Type Plain Paper Plain Paper Plain Paper Plain Paper Plain Paper					
	Paper I Acquire De Acquir	ray Settings wice Informatio				Software Tor Web Conne	ols ction	<b>i</b> _	▼ Stagt
						ок	Cancel	Apply	Help

3 Click the Configure tab.

- 4 Select "User Authentication" under "Device Option".
- 5 Select "Device" from the "Setting" drop-down list.
- 6 Click [Apply], and then click [OK].

## Sending a print job

- 1 Open the data in the application, click [File], and then click [Print].
- 2 Check that the printer name has been selected in "Printer Name" or "Select Printer". If the printer is not selected, click to select the printer.

💩 Print	? 🗙
General	
Select Printer	
🞑 Add Printer	
Adobe PDF	
	<u>&gt;</u>
Status: Ready	Print to file Preferences
Location:	Find Printer
Comment:	
Page Range	
⊙ Aji	Number of <u>c</u> opies: 1
O Selection O Current Page	
O Pages: 1-65535	
Enter either a single page number or a single page range. For example, 5-12	
Pr	int Cancel Apply

- The Print dialog box differs depending on the application.
- 3 Click [Preferences] (or [Properties]).
- 4 Click the Basic tab.



5 From the "Output Method" drop-down list, select "Print".

- 6 Click the [Authentication/Account Track] button.
- 7 Select "Recipient User", and then enter the user name and password.

User Authentication/Account Track	. ? 🛛
User Authentication C Public User Recipient User User Name User001 Pagsword Server Setting	Account Track Department Name Passgord
	Verify OK Cancel Help

- 8 Click [Verify] to check the user ID.
- 9 Click [OK].
  - If the user name or the password is incorrect, type in the correct information.



- 10 Click the [OK] button.
- **11** Specify the desired settings, and then click [OK].
- **12** Click [Apply], and then click [Print]. The print job is sent.



**13** Position the registered finger on this device.



- Make sure that "Begin Printing" is selected.
- To select the print job to be printed, touch [Screen Operation]. For details, refer to "Selecting the print job to be printed from the control panel" on page 32.

The user is authenticated, and the print job is printed.



## 3.4.2 Touch & Print (for Macintosh)

- 1 Open the data in the application, click [File], and then click "Print".
- 2 Check that the printer name has been selected.

Presets:	Standard	•
( <del>)</del>	Copies & Pages	•
Copies:	1 Collated	
Pages:	All     From: 1 to: 1	
? PDF • Pre	view	Cancel Print

- The Print dialog box differs depending on the application.

3 From the drop-down menu, select "Output Method".

4 From the "Output Method" drop-down list, select "Print".

ſ	
	Output Method
Paper View     Detailed Informati     1/2x11     1/2x11	on 🗹 Collate
	Output Method:
	User Authentication
Printer Information.	Detail Settings
	Default

5 Select the "User Authentication" check box.

The User Authentication dialog box appears.

6 Select "Recipient User", and then enter the user name and password.

O Public Us	er
Recipient	User
User Nar	ne:
Password	d-
T dissilier	
User A	uthentication Server Setting )
User A	uthentication Server Setting
User A	s
User A	s

- 7 Click the [OK] button.
- 8 Specify the desired settings, and then click [Print]. The print job is sent.
- 9 Position the registered finger on this device.



- Make sure that "Begin Printing" is selected.
- To select the print job to be printed, touch [Screen Operation]. For details, refer to "Selecting the print job to be printed from the control panel" on page 32.



The user is authenticated, and the print job is printed.



## 3.4.3 Selecting the print job to be printed from the control panel

Follow the procedure described below to select the document to be printed from those saved in the Touch & Print user box.

1 Touch [Screen Operation].

Job List	Documents are stored in the Touch & Print User Box. They can be printed by authenticating. To check the documents, select operation and login.	
	Begin Printing	
Hann Status	User Name	
	Password	
t t		
Job Details	2007/02/06 13:53	

2 Position the registered finger on this device.

The user is authenticated, and the Basic screen appears.



**3** Press the [User Box] key in the control panel.



Z

4 Touch [Use Document].



5 Touch [System User Box].

Job List Check Job	Select the desired User Box to use document. If you know the User Box number, enter it using the keypad.	Search User Box
Yest ion	000000001 box01 test2 box02 b	1/ 1
Y H C K	Enter User Dox No.	ОК

6 Touch [Touch & Print User Box], and then touch [OK].



- 7 Select the document to be printed.
  - Multiple documents can be selected.
  - To select all documents, touch [Select All].
  - To cancel the selection of all documents, touch [Reset].
  - To check various information, such as the date/time when the document was stored and the document name, touch [Detail View].

Job List	Select document(s). Choose action after selecting document(s).		
Check Job	Use Document		
Preview	Touch & Print User Box		
Selected Documents		1/ 1	Action Delete Print
		Arl <sup>ect</sup> Reset	
+ 1/ 1 ↓ ₽=_1	[	Detail View	Decument
Y м с к	02/02/2007 10:59 Henory 99%	Cance	ОК

- 8 Touch the [Print] under "Action", and then touch [OK].
  - To delete the document, touch [Delete].

- To check the document details, touch [Document Details]. The selected document is printed.





## Note

*If authentication fails many times, the authentication data may not be registered correctly. Therefore, register the user again.* 

# 4 Care of Authentication Unit (Biometric Type) AU-101

## Caution

- Before cleaning this device, disconnect it from the multifunctional product. If a force is applied to the USB port, it may be damaged.
- When cleaning this device, do not allow water to enter the device, otherwise the system may be damaged.
- Never use organic solvents, such as benzene or alcohol, to clean this device, otherwise it may be damaged.



## Note

- When disconnecting or connecting this device, turn off the multifunctional product with the main power switch, and then wait at least 10 seconds before turning it on again. The machine may not operate correctly if it is turned on immediately after being turned off.
- Hold the plug when plugging and unplugging the USB cable, otherwise the cable may be damaged.

## Care of the housing

Frequency: Once a month, or when it is dirty

Wipe the housing with a soft, dry cloth. If the housing cannot be cleaned by wiping it, wash it with a cloth dampened with a mild detergent and wrung out well. After the housing is cleaned, rinse the cloth and wring it out well before wiping off the detergent.

## Care of the cover

Frequency: Once a month, or when it is dirty or covered with fingerprints

Clean the scanner with a soft cloth. If it is extremely dirty, remove the dirt before cleaning it.



Product name		Authentication Unit (Biometric Type) AU-101	
Compatible finger width		10 mm to less than 25 mm	
Interface		USB 2.0	
Dimensions		Approx. 78 mm (W) × 95 mm (D) × 55 mm (H)	
Weight		Approx. 150 g (not including the USB cable)	
Power consumption		DC 5 V, 500 mA	
Environment conditions	Temperature	10 to 35 °C	
(when operating)	Humidity	10 to 80 % (Must be no condensation)	
Environment conditions	Temperature	-10 to 60 °C	
(when not operating)	Humidity	10 to 80 % (Must be no condensation)	
Computer	Processor	PC/AT compatible, 1 GHz or more	
	Memory	128 MB or more	
	Hard disk drive	Available hard disk space: 100 MB or more	
	Monitor	800 × 600 pixels, 16-bit color or more	
	Network	TCP/IP protocol	
	Application	Microsoft Internet Explorer 6.0 (Service Pack 1) or later Microsoft .NET Framework (Service Pack 1) or later	
	Interface	USB 1.1 or later	
Supported operating sys	items	Windows 2000 Professional (Service Pack 4) Windows XP Professional Edition (Service Pack 2)	

# 6 Troubleshooting

If a problem occurs while running the system, refer to the following.

Condition	Possible cause	Remedy
The USB cable is connected between this device and the multifunctional product, but the status indicator is not lit in green.	The USB port of the multifunctional product may be malfunctioning.	Turn the multifunctional product off with the main power switch and temporarily disconnect the USB cable from this device or the multifunctional product before connecting it again and waiting 10 seconds before turning on the multifunctional product with the main power switch.
The USB cable is connected between this device and the computer,	The USB port of the computer may be malfunctioning.	Restart the computer.
but the status indicator is not lit in green.	Is the driver for this device correctly installed?	Refer to "Registering from Data Administrator", and check if the driver is correctly installed on the computer. (p. 11)
A tone does not sound from the multifunctional product when scanning begins and when authentication is completed.	Has the tone setting on the multifunctional product been set to "OFF"?	Refer to "Registering users", and set the tone setting to "ON". (p. 8)

Condition	Possible cause	Remedy
The message "Failed to register." appears on a multifunctional product where registration failed.	With this device, the scanning time is limited for each scan. This message appears if scanning is not possible within the limited period of time. For details on the scanning time, consult with the technical representative.	Refer to the Quick Guide Authentication Unit (Biometric Type AU-101) and check how to position the finger for authentication and scanning in order to complete scanning within the limited period of time. Correctly position the finger to be scanned on
Logon failed. The message "Failed to Authenticate." appears on the multifunctional product.		
The message "Failed to read data. Place your finger once again and click the [Start reading] button." appears on a computer where registration failed.	With this device, the scanning time is limited to five seconds for each scan. This message appears if scanning is not possible within the five- second time period.	the scanner, and do not move the finger until the scanning results are received. If the area of the finger to be scanned is dirty or chapped, a correct image cannot be created and scanning may not be completed. Wash your hands and try scanning again, or try to correct chapped fingers. If the area of the finger to be scanned is too wide or too thin (outside of the finger width range of 10 mm to 25 mm), a correct image cannot be created and scanning may not be completed. Try widening your finger or inserting it deeper or less deep into the scanner.

Condition	Possible cause	Remedy
Scanning does not begin.	Is the finger correctly positioned?	Refer to the Quick Guide Authentication Unit (Biometric Type AU-101) and check how to position the finger for authentication and scanning. Correctly position the finger to be scanned on the scanner, and do not move the finger until the scanning results are received. If the area of the finger to be scanned is dirty or chapped, a correct image cannot be created and scanning may not be completed. Wash your hands and try scanning again, or try to correct chapped fingers. If the area of the finger to be scanned is too wide or too thin (outside of the finger width range of 10 mm to 25 mm), a correct image cannot be created and scanning may not be completed. Try widening your finger or inserting it deeper or less deep into the scanner.
	Was the multifunctional product restarted after this device was connected to it?	Turn the multifunctional product off with the main power switch and temporarily disconnect the USB cable from this device or the multifunctional product before connecting it again and waiting 10 seconds before turning on the multifunctional product with the main power switch.

Condition	Possible cause	Remedy
The Add New Hardware Wizard starts when this device is connected to the computer.	Is this device connected to the same USB port used when the driver was installed?	If this device is connected to a USB port different from the one used when the driver was installed, the Add New Hardware Wizard may start. Use the same USB port used when the driver was installed.

If the problem is not corrected after the described operation is performed, contact your technical representative.

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