

AU-201H Authentication Unit (HID Proximity Card Type)

User's Guide

1 Introduction

Thank you for choosing this device.

This User's Guide provides descriptions of the operating procedures and precautions for using AU-201H Authentication Unit (HID Prox IC Card Type). 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.

AU-201H Authentication Unit (IC Card Type) 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.
- Note: This indicates an item of general importance.
- Reminder: This indicates an item of relative importance.
- Detail: This indicates an item of specific importance.

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1.1 Product features

This device is an IC card authentication system that performs user authentication by IC cards and supports most HID Proximity (125MHz) IC cards. Logon and print job operations can be authenticated with IC cards when using multifunctional products with user authentication settings specified.

1.2 Prerequisites

- HID Prox IC cards compatible with this device must be prepared.
- The optional local interface kit and working table must be installed on the multifunctional product.
- Refer to Chapter 5 Specifications.

Note:

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

2 Device description

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2.1 Part names and their functions



No.	Part name	Description
1	Card scanning area	Position the IC card on this area.
2	USB cable	Used for connecting this device to the multifunctional product.

3 Using AU-201H Authentication Unit

In order to use this device, user IC card IDs 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 IC card IDs. 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.

Important

Do not disconnect the USB cable while this device is being used, otherwise the system may become unstable.

Caution

Do not store the IC card within 1.5 inches (approx.) of the card scanning area.

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, press the [Utility/ Counter] button, press [Administrator Settings] and enter the administrator password, touch [User Authentication/Account Track] on the Administrator Settings screen, and then touch [General Settings].

AU-201H

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



Reminder:

External server authentication is not supported.

For details on specifying settings for "Public User Access" and "Account Track", refer to the User's Guide [Copy Operations] included with the multifunctional product.

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 [Card Authentication].
- 4 Select the desired settings under "IC Card Type" and "Operation Settings".
 - Under "IC Card Type", select the type of IC card to be used.

Booknark	Administrator Settings > General Settings > Card Auth. Settings				
	IC Card Type	Operation Settings			
Utility		Card Authentication			
Administrator Settings		Cord Authoritication			
uthentications	HID				
neral Settings					

- Under "Operation Settings", select the logon method after registration. Card Authentication: Logon is possible simply by positioning the IC card. Card Authentication + Password: Logon is possible by positioning the IC card and entering the password. If users are registered with "Card Authentication + Password" 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.

Bookmark	Specify th Administr	e settings ator Settin	for logging gs > Authen	off after tication D	document s evice Settin	canning is c ngs > Logofi	complete. F Settings
Utility Administrator Settings WEET MEET BUTYPELS Administrator Butypels Administrator Butypels Administrator Admin		Do	not log of	<u> </u>	Log o	ſſ	
Logoff Settings	02/22/2007 Hemory	13:05					ОК

- 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.

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 [Authentication System], then [User Registration].



2 Touch the button for a registration number, and then touch [Edit].

3 Touch [Register Auth. Info.].

(Dectamate)	Select the item to be registered/changed.
BOOKINGER	Administrator Settings > User Registration > Edit
IItility	User Name
+	Password
Administrator Settings	E-Hail Address
Authentication System	
User Registration	Output Permission Hax Allowance Set
Edit	11/15/2006 11:46

4 Touch [Edit].

[]	Register or delete authentication information.
Bookmark	Administrator Settings > Edit > Register Authentication Information
	Card authentication Not Registered
Utility	Edit Delete
Administrator	
Settings	
User	
+	
Edit	
+	
Register Auth. Info.	01/10/2007 09:55

5 Position the IC card on this device, and then touch [OK].



- 6 After the message "Registered" appears, 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 IC Card Driver (USB-Driver), then installing Data Administrator IC Card Plugin.

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 IC Card Driver (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.

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.
Search for the best driver in these locations.
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:
C:\IC Card\Drivers\
◯ <u>D</u> on'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>B</u> ack <u>N</u> ext> Cancel

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

Browse For Folder
Select the folder that contains drivers for your hardware.
Desktop 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 searches.	
USB Device	5
	Cancel

7 Click [Finish].



The installation of IC Card Driver (USB-Driver) is completed.

8 Install Data Administrator IC Card Plugin.

Open the IC_Card_Plugin folder on the application CD-ROM, and then click "setup.exe".

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



The installer starts up.

10 Follow the instructions that appear on the screen to complete the installation.

11 Click [Next].



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

记 PlugIn for IC Card Authentication Unit AU-201	×
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 CONDITIONS	
• I accept the terms in the license agreement I do not accept the terms in the license agreement	
InstellShield	
< Back Next > Cancel	

13 Click [Install].

3

🖟 PlugIn for IC Card Authentication Unit AU-201
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

14 Click [Finish].



Data Administrator IC Card 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.

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.

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 🔳 🗖 🔀
Eile Edit Device Processing Tool	Window Help X
🖻 💷 92	
Function selection: Device information(sample) Authentication settings Address settings User box	Device information: Device information Item Value Registering name Sample Group name Default Group Model name Device address 192.168.0.8 The latest access date and time Function The latest access date and time Administrator setti Not access Authentication set 2/27/2007 9:17:00 AM Address settings 2/27/2007 9:17:00 AM Current status (2/27/2007 9:17:01 AM) Type Status
Help(F1)	Befresh from the device

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

見 Data Administrator - [Device information - Default Group:sample:192.168.0.8 - User a 🔳 🔲 🗙							
🚯 File Edit Device Processing Iool Window Help 🔤 🖉 🗙							
😒 🕫 😘							
Function selection:	<u>U</u> ser list:		0 / 800 item(s)				
Device information(sample)	Status	User name	E-Mail address	•	<u>A</u> dd		
Account track settings				ø	E d <u>i</u> t		
 ■ External Server ■ Address settings 				7	Dejete		
Le					<u>C</u> olumn option		
Help(F1)	<u>B</u> efre	sh from the device		E <u>x</u> port t	o the device		

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

s	Select user template				
	Please s	elect an user temp	olate.		
	No.	Template name	Permitted function	Max allowance management	
	1*	system	Permit all		
	Help(F1)		OK	Cancel

The User settings dialog box appears.

7 Type in the user name and password, and then click the IC card authentication tab.

User settings							
Use <u>r</u> Name*:		user01	user01				
Pass <u>w</u> ord:		******					
E- <u>M</u> ail Address:							
Account Information						•	
Maximum counter settings	Maximum num	ber of boxes	Reference Allowed Set	ing IC card au	thentication	••	
Card Type:	ТуреА						
Result:	Unregistered						
Card ID:	Read the c	data from the I	Card Reader	St <u>a</u> rt	t reading		
	C Input the c	ard ID directly	,		le <u>l</u> ete	1	
						-	
	, (HEX 8)	digit, ex. 1122	33EE)				
Help(F1)		*: F	lequired field	ОК	Cancel		

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

- 8 Position the IC card on this device, and then click [Start reading].
 - The card ID can also be registered by selecting "Input the card ID directly".



9 Click [OK].

- Repeat steps 5 through 9 until all users have been registered.

User settings		
Use <u>r</u> Name*:	user03	
Pass <u>w</u> ord:	RENER	
E- <u>M</u> ail Address:		
Account Information		•
Maximum counter settings	Maximum number of boxes Reference Allowed Settin	g IC card authentication
Card Type:	ТуреА	
Result:	Unregistered	
Card ID:	Read the data from the Card Reader	St <u>a</u> rt reading
	C Input the card ID directly	Dejete
	(HEX 8 digit, ex. 112233EE)	
Help(F1)	*: Required field	OK Cancel

$10 \quad \text{Click} \ [\text{Export to the device}].$

🛃 Data Administrator - [Device info	ormation -	Default Group:se	ample:192.168.	0.8 - User a 💶 🗖 🔀
Elle Edit Device Processing Tool	Window H	lelp		_ 8 ×
🗟 🕫 92				
Function selection:	<u>U</u> ser list:		3 / 800 item(s)	
🖅 🧕 Device information(sample)	Status	User name	E-Mail address	4] <u>A</u> dd
E 😼 Authentication settings(Updat	🙎 Add	user01	user01@test.l	
Account track settings	🙎 Add	user02	user02@test.l	🧭 Edijt
External Server	Add user03 user03@testL.	X Delete		
🜍 User box				Column option
<	<		>	
Help(F1)	<u>R</u> efre	sh from the device	8	Export to the device

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

11 Click [Write].

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

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.

12 Click [OK].



- 13 Disconnect this device from this USB port of the computer.
- 14 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.

Reminder:

- 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 IC card IDs.

When "Card Authentication" has been specified

- Job List
 Select the logon method. First the
- % Position the registered IC card on this device.

The user is authenticated, and the Basic screen appears.



When "Card Authentication + Password" has been specified

1 Position the registered IC card on this device, and then type in the password.

Job List	Select the logon method. Enter the logon user name and password, and then touch [Logon]. Card authentication is also possible.
Kane Status	User Name
	Password
Delete	
Job Details	Login

2 Touch [Login] or press the [Access] key.

The user is authenticated, and the Basic screen appears.



Note:

The notification beep sounds while scanning. The notification beep is canceled by touching [Login] or pressing the [Access] key to complete authentication. This is a normal operation of the device.

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 IC card IDs. 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

Detail:

To use the Touch & Print function, select "Card Authentication" under "Operation Settings" and set "Touch & Print Setting" to "ON".

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".
- 3 Click the Configure tab.

è =	NO. AND	NUTA INTERN	CL Properti	es					?	×
Gen	eral Sharing	Ports Adv	anced Color N	lanagement Cor	figure	Settings				
					Device Paper Finishe Punch Hard D User A Accou	Option Source Unit of Unit lisk uthentication nt Track	LU-301 FS-608 PK-512 (2/3-Ho Installed Device Enable	le)		
	,	Υ.	3 -4	Ĵ		Sett De	ing vice		•	
ſ	Paper Tray [nformation								
	Tray	Size	Direction	Paper Type					<u>^</u>	
	Tray1	8 1/2x11	LEF	Plain Paper						
	Tray2	8 1/2×11	LEF	Plain Paper						
	Tray3	81/2x11	LEF	Plan Paper						
	LCT	8 1/2x11 0 1/2x11		Plain Paper Plain Paper					~	
	Paper <u>I</u>	ray Settings								
	Acquire De	evice Informatio	n			Software Tool Web Connec	s tion		•	
	Acgui	e Settings						i	Stagt	
						ок	Cancel	Apply	Help	5

- 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	
	>
Status: Ready	Print to file Preferences
Location: Comment:	Fin <u>d</u> Printer
Page Range	Number of copies: 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	
	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 Becipient User User Name [user001] Pagsword Server Setting	Account Track
	Verify K 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.

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13 Position the registered IC card 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)

3

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

Printer:	÷
Presets: Standard	•
Copies & Pages	;
Copies: 1 Collated	
Pages: • All From: 1 to: 1	
PDF Preview	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".

Outp	ut Method
Paper View Detailed Information 8 1/2x11 8 1/2x11	☑ Collate □ Offset
x1	Output Method: Print
∎ <i>2 2</i> \$	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.

C) Public User
	Recipient User
	User Name:
	Password
	Fassword.
	User Authentication Server Setting
	User Authentication Server Setting Save Settings Do not show this window when setting
	User Authentication Server Setting Save Settings Do not show this window when setting
	User Authentication Server Setting Save Settings Do not show this window when setting

- 7 Click the [OK] button.
- 8 Specify the desired settings, and then click [Print]. The print job is sent.
- 9 Position the registered IC card 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				
Kama Status	User Name				
	Password				
t t					
Job Details	Login 2007/02/06 13:53 Water 1007				

2 Position the registered IC card on this device.

The user is authenticated, and the Basic screen appears.



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



3

4 Touch [Use Document].



5 Touch [System User Box].

Job List	Select the desired User Box to use document. If you know the User Box number, enter it using the keypad.	
Uneck Job	Public Personal Step=Box Group	Search User Box
Ynfor Bation	000000001 boxt1 boxt2 boxt2	1/ 1
Y M C K	Enter User Box 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	L Action Pelote Print document2
	Select
	Reset
↑ 1/ 1 ↓	Detail Becarrie
Y. M. C. K	02/02/2007 10:59 Heliory 99%



- To delete the document, touch [Delete].

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



Detail:

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

4 Care of AU-201H Authentication Unit

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.

Frequency: Once a month, or when it is dirty

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

5 Specifications

Product name		AU-201H Authentication Unit	
Dimensions		Approx. 3.15" (W) × 2.64 (D) × 1.1" (H)	
Weight		Approx. 3.88 oz	
Power requirements		Through USB port	
Environment conditions (when operating)	Temperature	32 to 131 degrees F	
	Humidity	10 to 90% rH	
Environment conditions	Temperature	32 to 131 degrees F	
(when not operating)	Humidity	10 to 90% rH	
Radio waves classification		Induced reading/writing communication equipment	
Compatible card		HID Contactless Prox IC card (125MHz)	
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 system	ns	Windows 2000 Professional (Service Pack 4) Windows XP Professional Edition (Service Pack 2)	

6 Troubleshooting

6

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

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 to 10 seconds. This message appears if scanning was not	Refer to the Quick Guide Authentication Unit (IC Card Type AU-201) and check how to position the IC card in
The message appears on a computer where registration failed.	possible within the limited period of time.	order to complete scanning within the limited period of time.
Logon failed. The message "Failed to Authenticate." appears on the multifunctional product.	If "Card Authentication + Password" was selected: Is the password typed in correctly?	Check the password, and type it in correctly.
Scanning does not begin.	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.
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.