



KONICA MINOLTA

**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

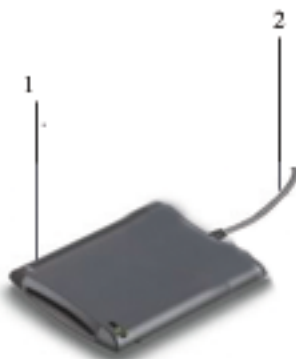
- HID Prox IC cards compatible with this device must be prepared.
- The optional local interface kit and working table must be installed on the multifunctional product.
- Refer to Chapter 5 - Specifications.

Note:

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

2 Device description

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].

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



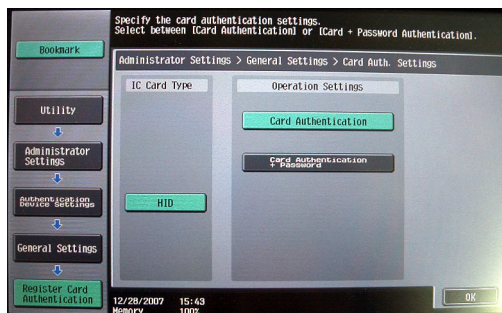
Reminder:

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.

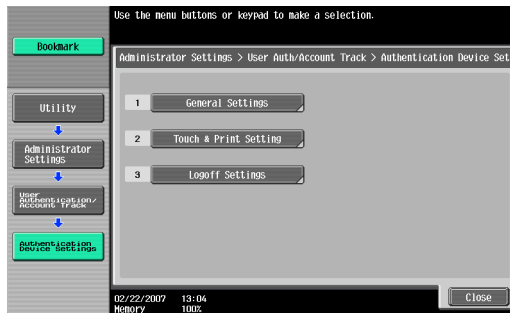
- 3 Touch [Authentication Device Settings], then [General Settings], then [Card Authentication].
- 4 Select the desired settings under “IC Card Type” and “Operation Settings”.
 - Under “IC Card Type”, select the type of IC card to be used.



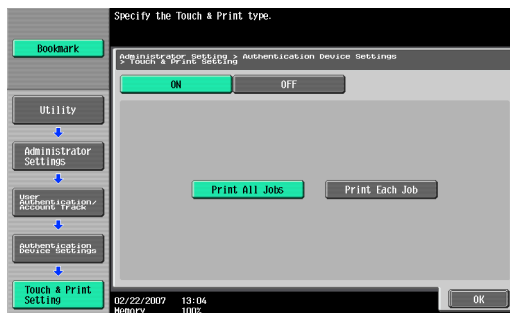
- Under “Operation Settings”, select the logon method after registration.
Card Authentication: Logon is possible simply by positioning the IC card.
Card Authentication + Password: Logon is possible by positioning the IC card and entering the password. If users are registered with “Card Authentication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

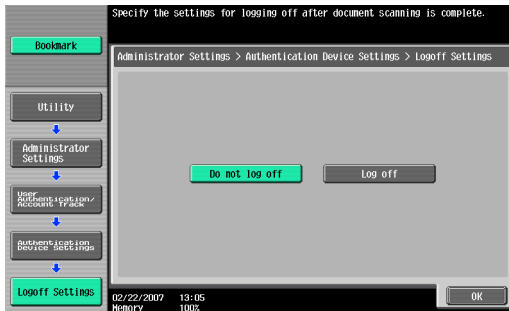


7 Select the printing method for the Touch & Print function.



- 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.



- 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].

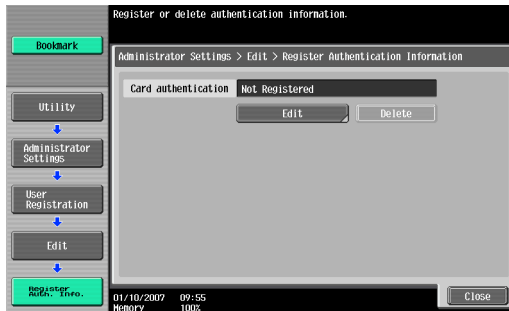
- 2 Touch the button for a registration number, and then touch [Edit].



- 3 Touch [Register Auth. Info.].



- 4 Touch [Edit].



- 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.

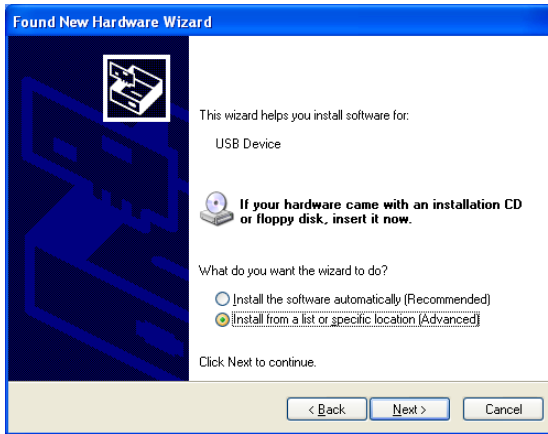
Setup

- 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].

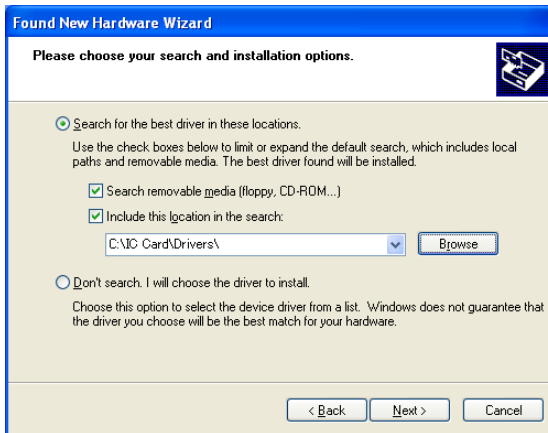


- 4 Insert the application CD-ROM included with this device into the CD-ROM drive of the computer.

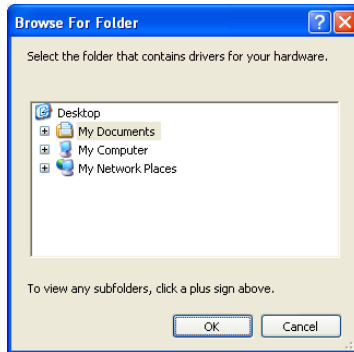
- 5 Select “Install from a list or specific location (Advanced)”, and then click [Next].



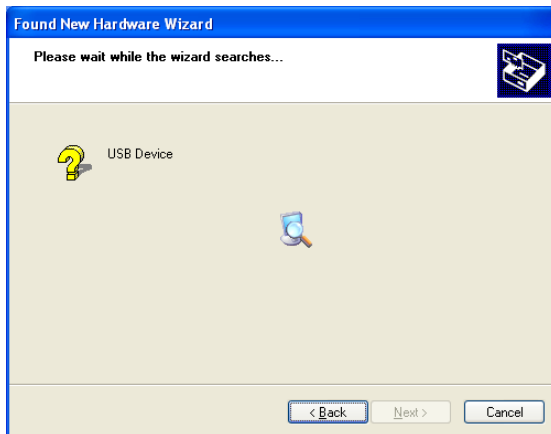
- 6 Select the “Include this location in the search” check box, check that the application CD-ROM appears as a location to be searched, and then click [Next].



- 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].



The installation begins.



- 7 Click [Finish].

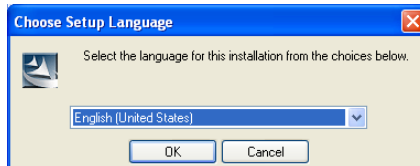


The installation of IC Card Driver (USB-Driver) is completed.

- 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.

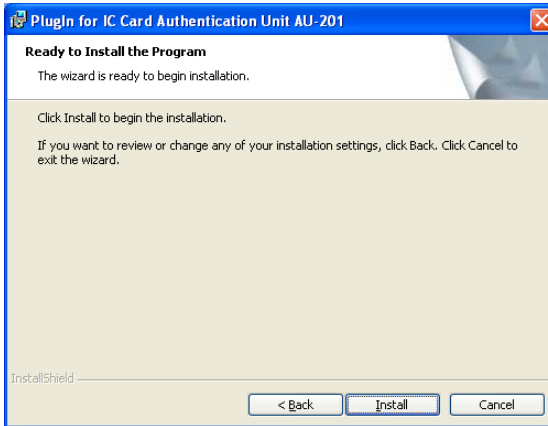
11 Click [Next].



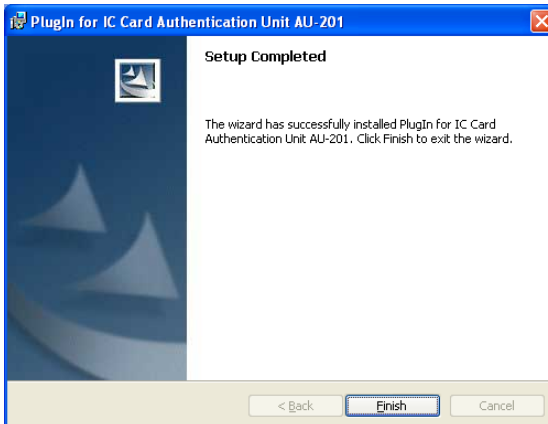
12 Select “I accept the terms of the license agreement”, and then click [Next].



13 Click [Install].



14 Click [Finish].

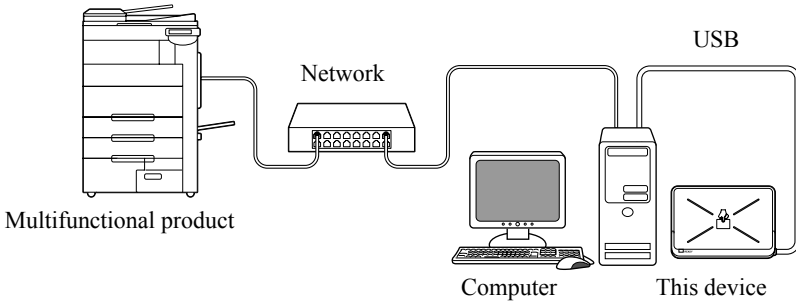


Data Administrator IC Card Plugin is installed, and the setup is completed.

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:

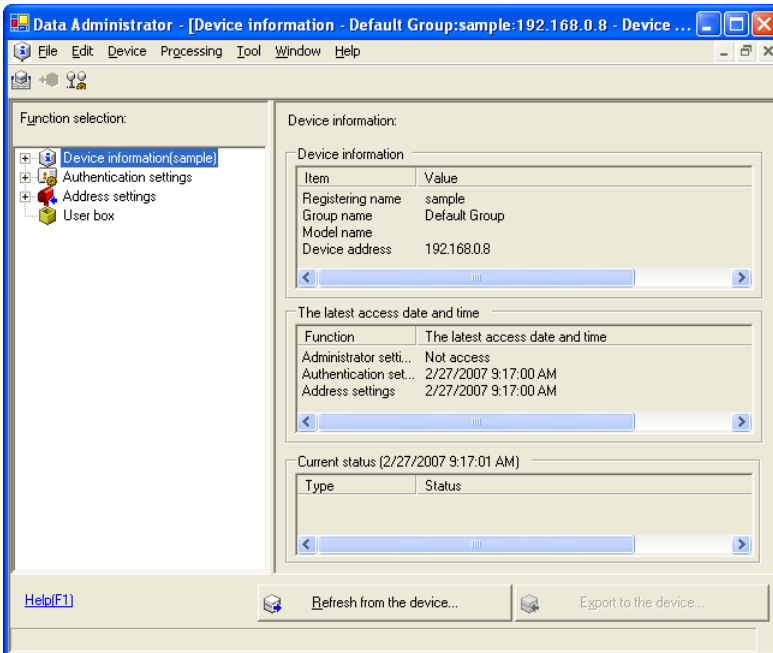
- *When the multifunctional product is turned off, then on again with the main power switch, wait at least 10 seconds to turn the machine on after turning it off. The machine may not operate correctly if it is turned on immediately after being turned off.*
 - *Hold the plug when plugging and unplugging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

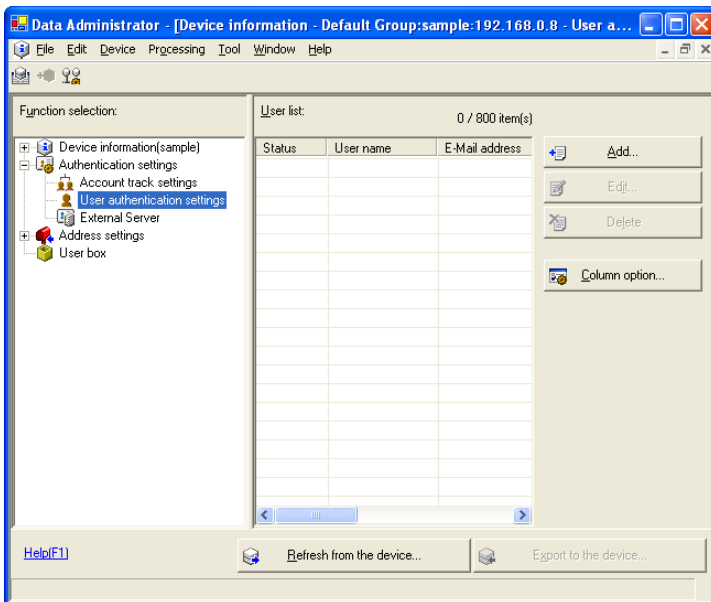
- Do not connect other USB devices to the same port where this device is connected. If enough USB power is not provided, this device may not operate correctly.
- When using a USB hub, be sure to use a self-powered USB hub that can provide 500 mA or more.
- After connecting this device, wait at least 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.

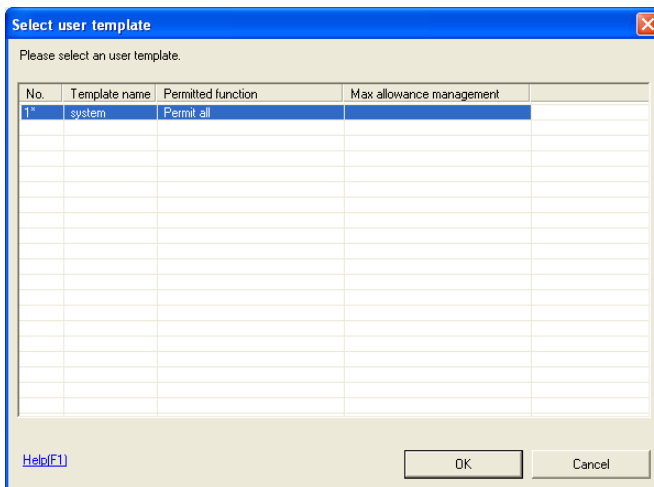
The Device information pane appears.



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



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



The User settings dialog box appears.

- 7 Type in the user name and password, and then click the IC card authentication tab.
 - If desired, type in the e-mail address.

User settings

User Name*: user01

Password: *****

E-Mail Address:

Account Information: [Dropdown menu]

Maximum counter settings | Maximum number of boxes | Reference Allowed Setting | **IC card authentication** | [Navigation arrows]

Card Type: TypeA

Result: Unregistered

Card ID:

- Read the data from the Card Reader
- Input the card ID directly

[Start reading] [Delete]

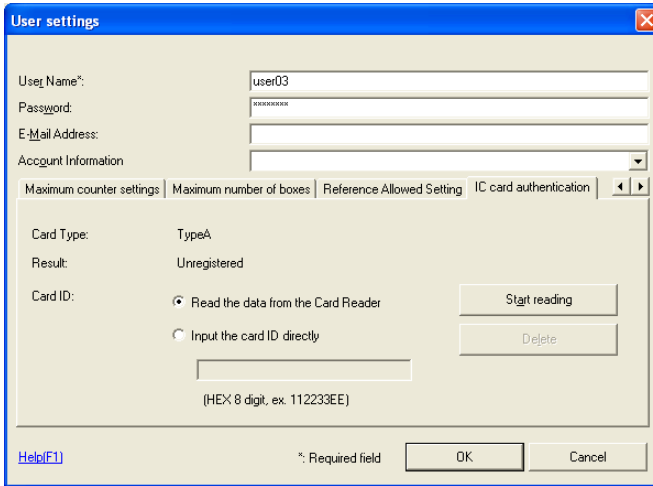
[Empty text box]

(HEX 8 digit, ex. 112233EE)

Help(F1) *: Required field [OK] [Cancel]

- 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”.

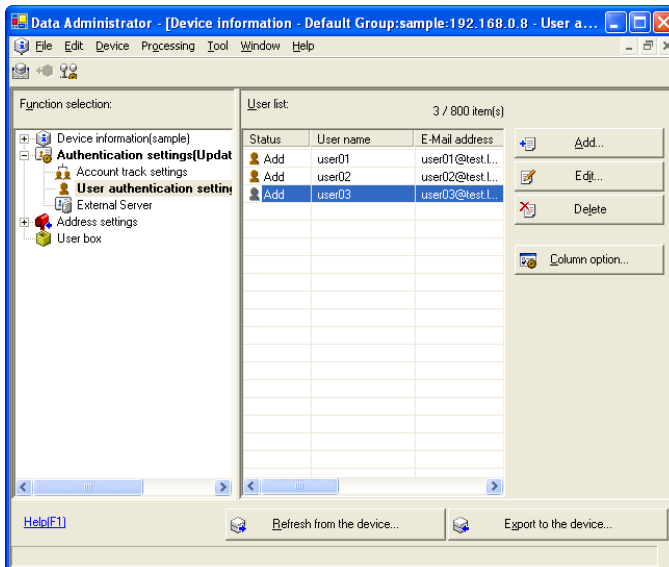
- 9 Click [OK].
- Repeat steps 5 through 9 until all users have been registered.



The 'User settings' dialog box is shown with the following fields and options:

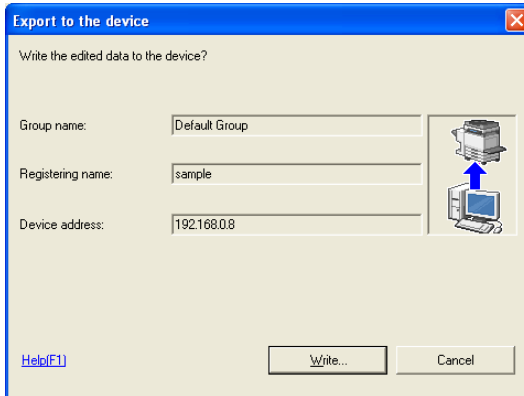
- User Name: user03
- Password: [masked]
- E-Mail Address: [empty]
- Account Information: [dropdown menu]
- Maximum counter settings | Maximum number of boxes | Reference Allowed Setting | IC card authentication | [navigation arrows]
- Card Type: TypeA
- Result: Unregistered
- Card ID:
 - Read the data from the Card Reader (with 'Start reading' button)
 - Input the card ID directly (with 'Delete' button)
- [Empty text box for Card ID]
- (HEX 8 digit, ex. 112233EE)
- Buttons: Help(F1), [Required field indicator], OK, Cancel

- 10 Click [Export to the device].



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

11 Click [Write].

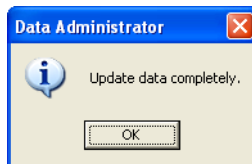


The registered user data is specified on the multifunctional product.

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

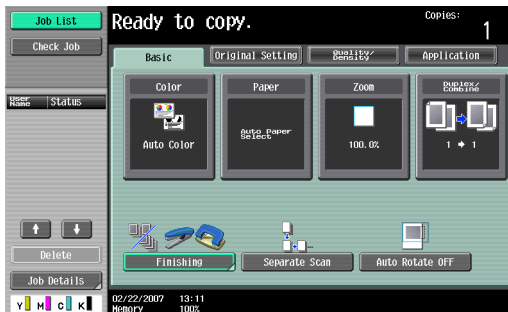
Follow the procedures described below to log on to multifunctional products by completing authentication with IC card IDs.

When “Card Authentication” has been specified

- % 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.



- 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”.

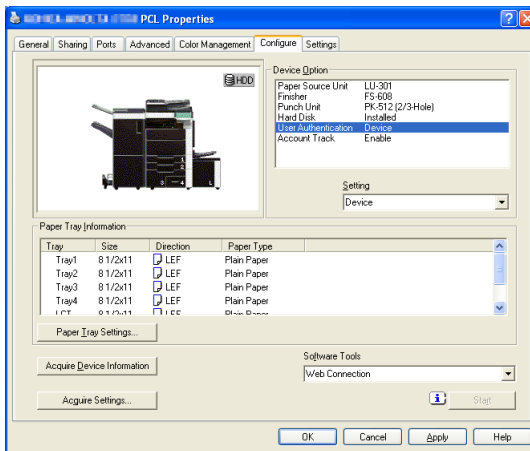
Note:

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

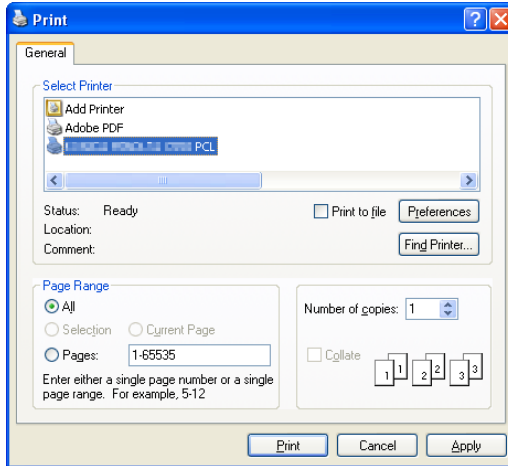
- 1 For Windows 2000/NT 4.0, click the [Start] button, point to “Settings”, and then click “Printers”.
For Windows XP/Server 2003, click the [Start] button, and then click “Printers and Faxes”.
 - If “Printers and Faxes” does not appear in the Start menu, open the Control Panel from the Start menu, select “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.



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

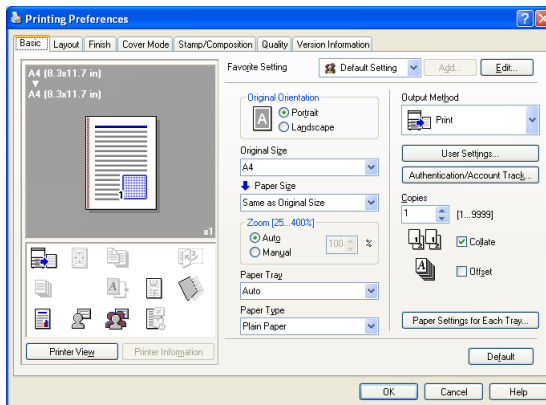
Sending a print job

- 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.



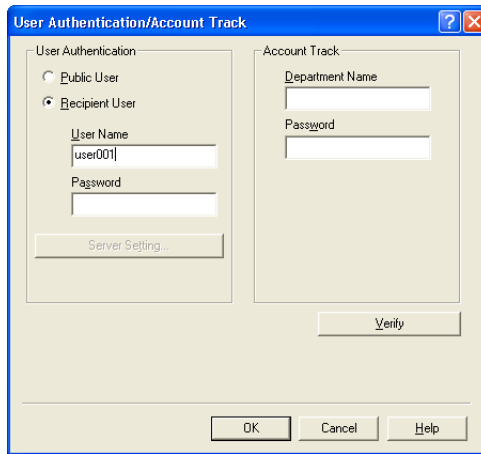
- The Print dialog box differs depending on the application.

- 3 Click [Preferences] (or [Properties]).
- 4 Click the Basic tab.

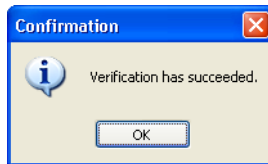


- 5 From the “Output Method” drop-down list, select “Print”.

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



- 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].

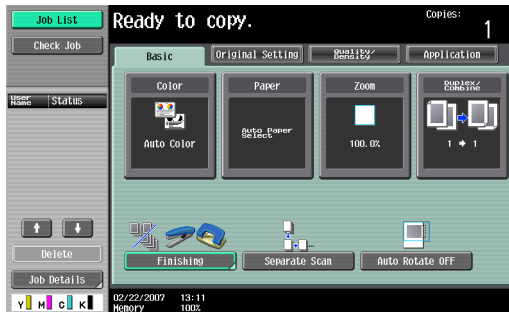
The print job is sent.

13 Position the registered IC card on this device.



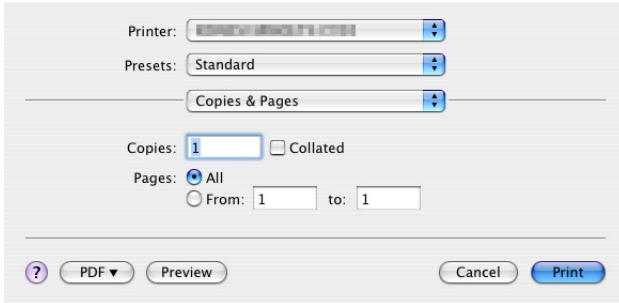
- Make sure that “Begin Printing” is selected.
- To select the print job to be printed, touch [Screen Operation]. For details, refer to “Selecting the print job to be printed from the control panel” on page 32.

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



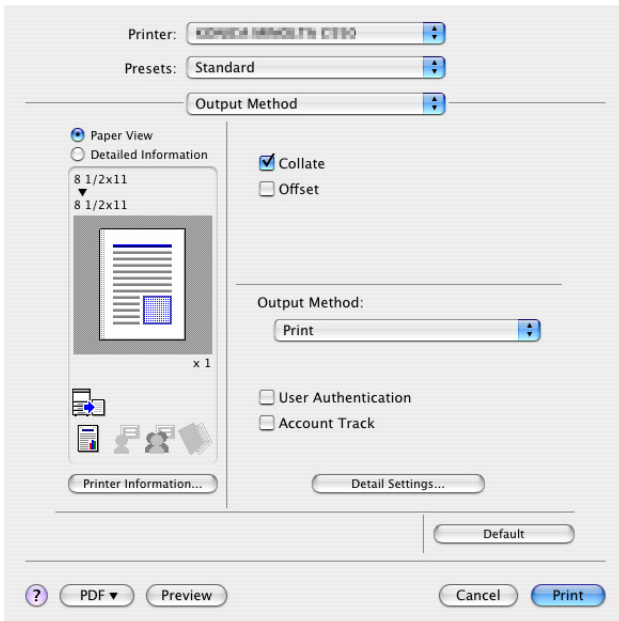
3.4.2 Touch & Print (for Macintosh)

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



- The Print dialog box differs depending on the application.

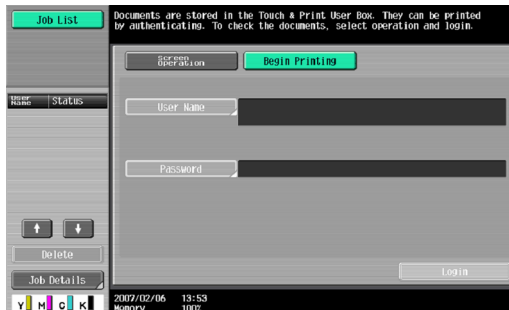
- 3 From the drop-down menu, select “Output Method”.
- 4 From the “Output Method” drop-down list, select “Print”.



- 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.

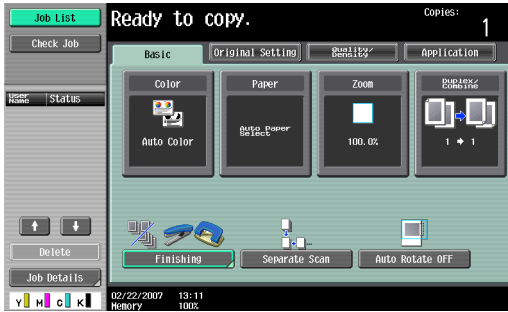


- 7 Click the [OK] button.
- 8 Specify the desired settings, and then click [Print].
The print job is sent.
- 9 Position the registered IC card on this device.



- 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.



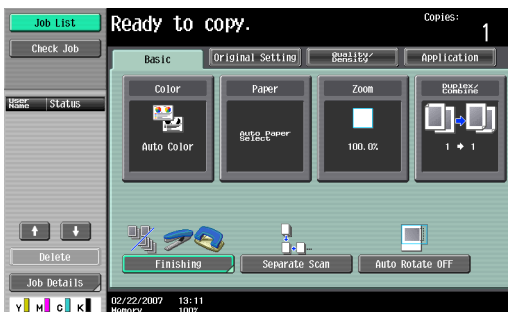
3.4.3 Selecting the print job to be printed from the control panel

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

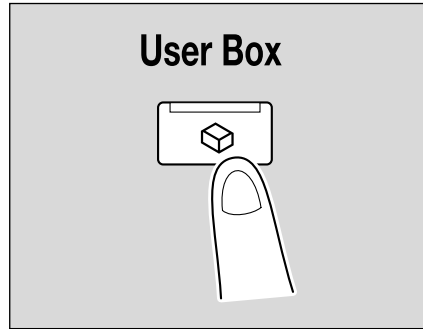
- 1 Touch [Screen Operation].



- 2 Position the registered IC card on this device.
The user is authenticated, and the Basic screen appears.



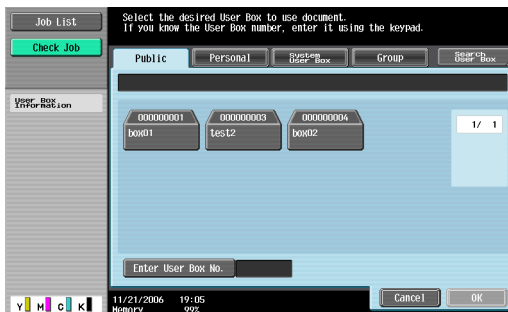
- 3 Press the [User Box] key in the control panel.



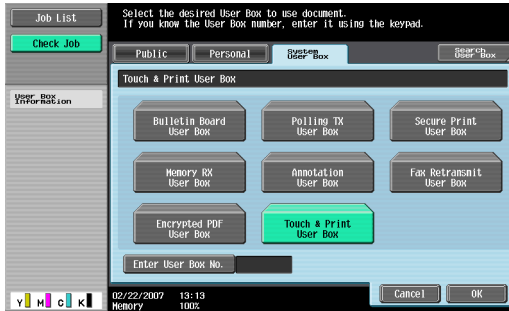
- 4 Touch [Use Document].



- 5 Touch [System User Box].

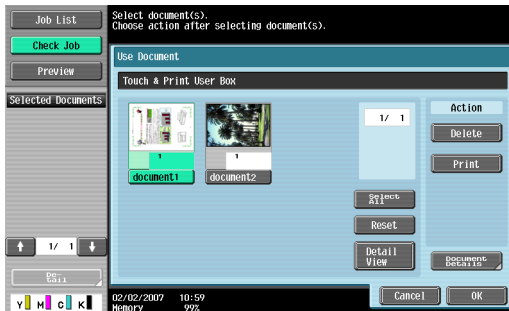


6 Touch [Touch & Print User Box], and then touch [OK].

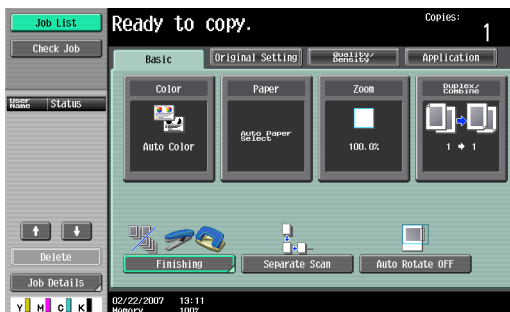


7 Select the document to be printed.

- 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].



- 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.

**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 (when not operating)	Temperature	32 to 131 degrees F
	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 systems		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 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 possible within the limited period of time.	Refer to the Quick Guide Authentication Unit (IC Card Type AU-201) and check how to position the IC card in order to complete scanning within the limited period of time.
The message appears on a computer where registration failed.		
Ligon 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.