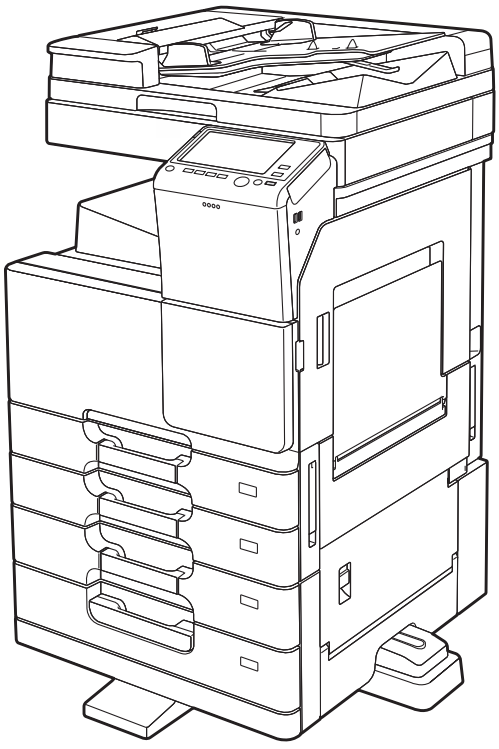
Sindoh
Unmistakable

N510 Series

USER MANUAL
About This Machine

- Before using this Product, please read the USER MANUAL carefully and keep it for your reference.



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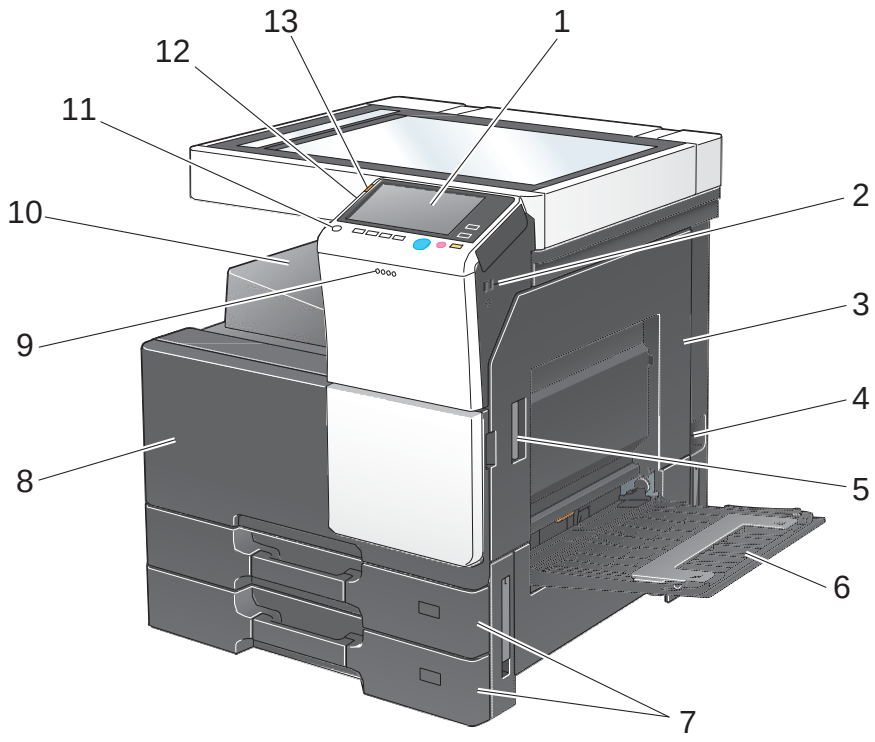
7 Using the Authentication Unit (IC Card Type)

1

Checking the Name and Function of each Part in this Machine

1 Checking the Name and Function of each Part in this Machine

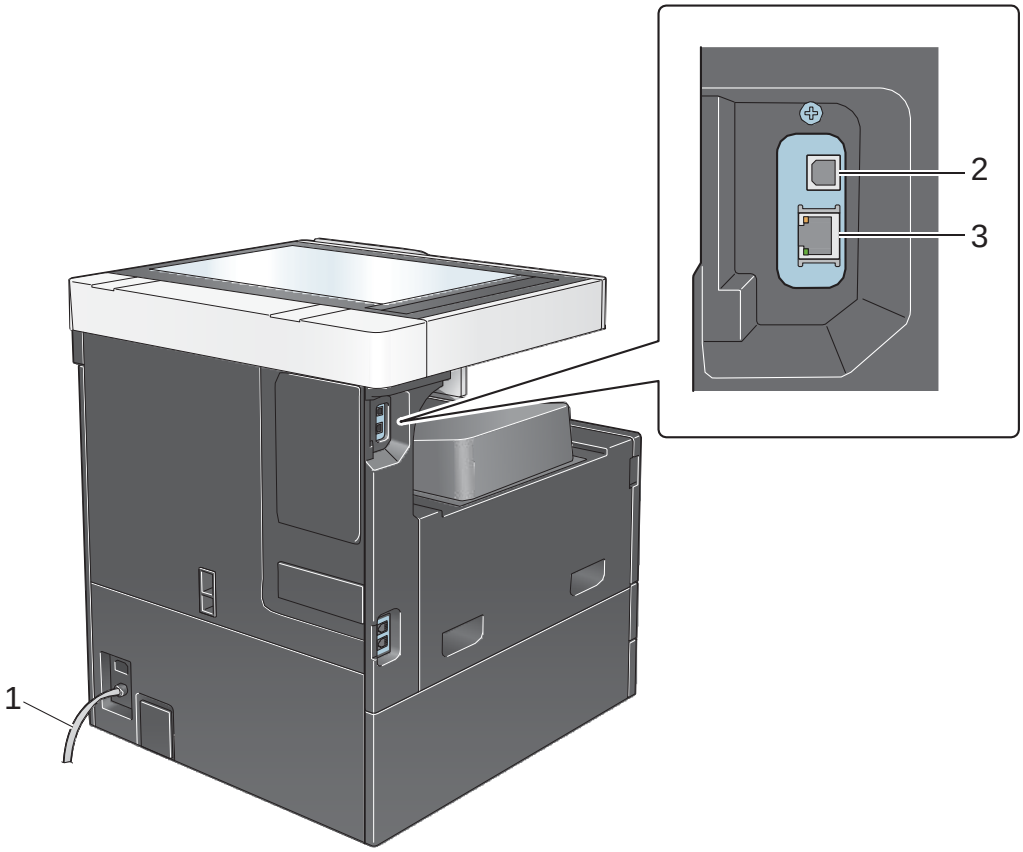
Front side



No.	Name	Description
1	**Control Panel**	Used to configure various settings in this machine.
2	**USB Port (Type A) USB2.0/1.1**	Used to connect an external memory unit (USB memory unit) to this machine.
3	**Right Door**	Open this door to clear a paper jam.
4	**Main Power Switch**	Press this switch to turn the machine on or off.
5	**Right Door Release Lever**	Used to lock the **Right Door**.
6	**Bypass Tray**	Used to print data on irregularly size paper, thick paper, transparencies, postcards (4 x 6 (A6 Card)), envelopes, or label sheets. The Bypass Tray can hold up to 100 sheets of plain paper, 20 sheets of Thick 1, 20 sheets of Thick 1+, 20 sheets of Thick 2, 20 sheets of Thick 3, 20 transparencies, 20 postcards (4 x 6 (A6 Card)), label sheets, or index paper, and 10 envelopes.
7	**Tray1**, **Tray2**	Allows you to load up to 500 sheets. These trays can hold up to 150 sheets respectively of Thick 1, Thick 1+, Thick 2, and Thick 3.
8	**Front Door**	Open this door to replace the **Toner Cartridge**, **Waste Toner Box**, or **Drum Unit**.
9	**Data Indicator**	Flashes or lights up to indicate the data receiving status on this machine. For details, refer to page 2-3.
10	**Output Tray**	Outputs printed pages.

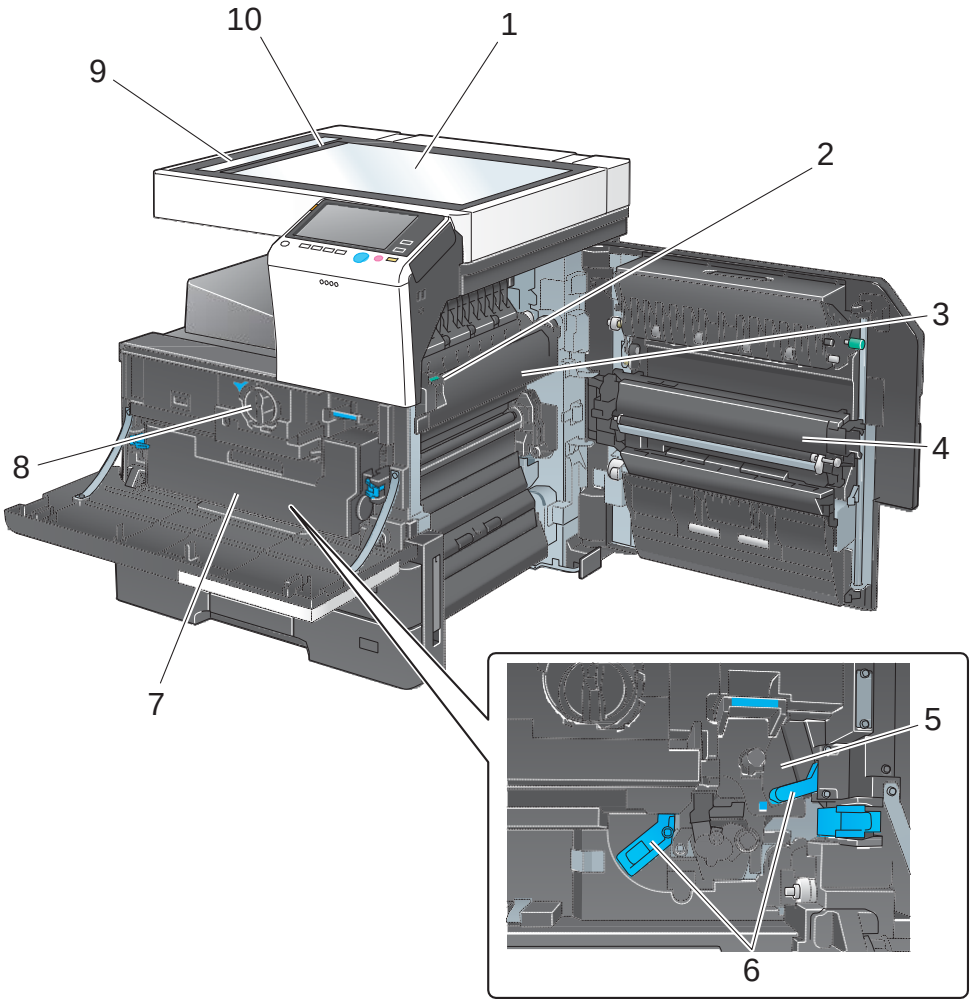
No.	Name	Description
11	**Power** key	Press this key to switch to the Power Save mode. During the normal operation, the key lights up blue. During the power save mode, the key flashes blue or lights up orange.
12	**Stylus Pen**	Used to select a menu on the **Touch Panel**, or enter characters.
13	**Warning Indicator**	Flashes or lights up to indicate that a problem has occurred in this machine. For details, refer to page 2-2.

Left side/rear side



No.	Name	Description
1	**Power Cord**	Used to supply power to this machine.
2	**USB Port (Type B) USB2.0/1.1**	Connect to this port when using this machine as a USB-connected printer.
3	**Network Connector (10Base-T/100Base-TX/1000Base-T)**	Connect to this port when using this machine as a network printer or network scanner.

Inside



No.	Name	Description
1	**Original Glass**	Used to load the original.
2	**Fusing Unit Cover Lever**	Open this lever when clearing a paper jam in the fusing unit.
3	**Fusing Unit**	Used to fuse toner to paper using heat and pressure.
4	**Transfer Unit**	Used to transcribe toner onto paper.
5	**Drum Unit**	Used to create a print image.
6	**Lock Release Tab**	Used to remove the **Drum Unit**.
7	**Waste Toner Box**	Used to collect used waste toners.
8	**Toner Cartridge**	Contains toner, with which a print image is created.
9	**Slit Scan Glass**	Used to scan an original image when using the **ADF**.
10	**Original Scale**	Load the original along this scale. This scale is also used to check the size of the loaded original.

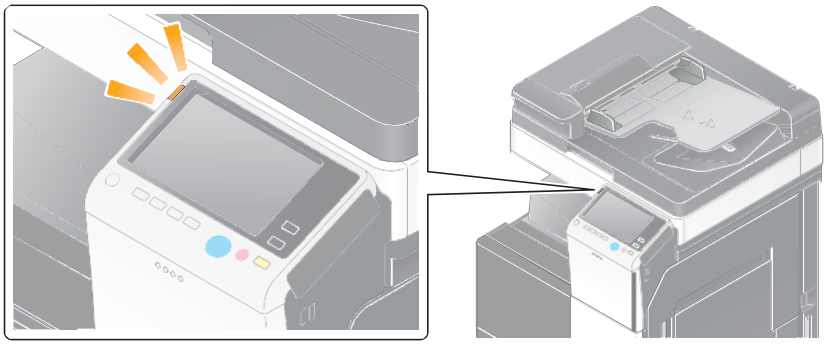
2

Checking the Status of This Machine Using LED Indicators

2 Checking the Status of This Machine Using LED Indicators

2.1 Warning Indicator

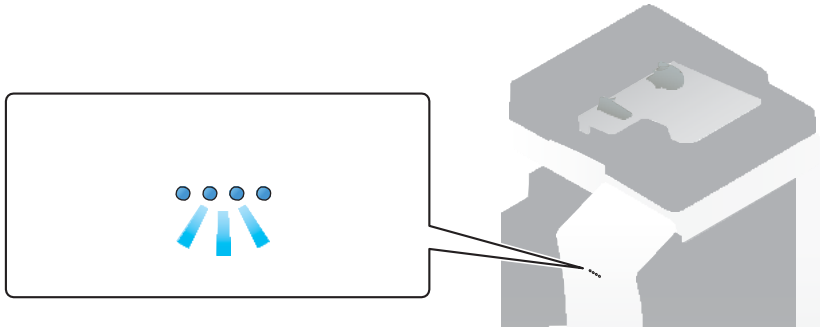
Flashes or lights up to indicate that a problem has occurred in this machine.



Status of LED	Status of this machine
Flash: Orange	Indicates that a warning has occurred in this machine.
Light up: Orange	Indicates that this machine is stopped due to an error.

2.2 Data Indicator

Flashes or lights up to indicate the data receiving status on this machine.



Status of LED	Status of this machine
Flash: Blue	Indicates that print data is currently being received.
Light up: Blue	Indicates that data is currently being stored.

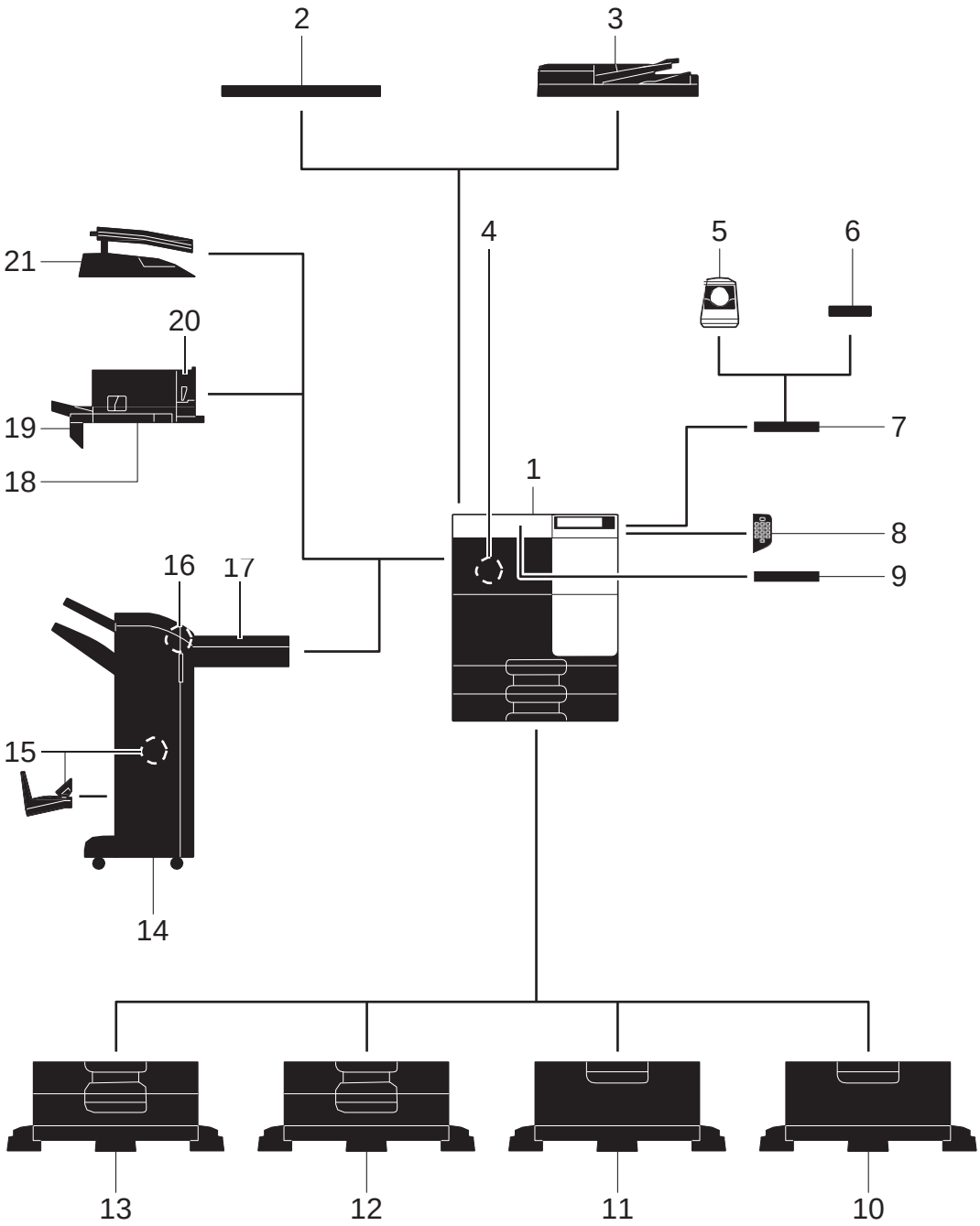
3

Checking the Name and Function of Each Optional Component

3 Checking the Name and Function of Each Optional Component

3.1 Checking the list of optional components

List of optional components



No.	Name	Description
1	Main unit	Scans the original in the scanner section, and prints a scanned image in the printer section. This unit is referred to as "machine", "main unit", or "N510 Series" in the manual.
2	**Original Cover OC-514**	Used to fix the loaded originals. This is referred to as **Original Cover** in the manual.
3	**Reverse Automatic Document Feeder DF-628**	Automatically feeds and scans originals by page. This unit also reverses and automatically scans 2-sided originals. This unit is referred to as **ADF** in the manual.
4	**Fax Kit FK-513**	Used to operate this machine as a fax machine. Alternatively, this kit allows more telephone lines to be connected.
5	**Authentication Unit AU-102**	Performs user authentication by scanning vein patterns in the finger. The **Working Table WT-506** and **Local Interface Kit** are required to install the **Authentication Unit AU-102**. This unit is referred to as an **Authentication Unit** in the manual.
6	**Authentication Unit AU-201S**	Performs user authentication by scanning information recorded on the IC card. The **Mount Kit MK-735** and **Local Interface Kit** are required to install the **Authentication Unit AU-201S**. This unit can also be installed on the **Working Table WT-506**. This unit is referred to as an **Authentication Unit** in the manual.
7	**Working Table WT-506**	Provides an area to temporarily place an original or other materials. This is also used when the **Authentication Unit** is installed.
8	**Keypad KP-101**	It is equipped on the side of the **Control Panel**. Allows you to enter numbers by using the Hardware Keypad.
9	**Keyboard Holder KH-102**	Install this holder to use a external keyboard. For details on external keyboards, contact your service representative.
10	**Desk DK-513**	Used to install this machine on the floor. This unit is referred to as **Desk** in the manual.
11	**Paper Feed Cabinet PC-413**	Allows you to load up to 2500 sheets of 8-1/2 x 11 (A4) size. This unit is referred to as **LCT (built-in)** in the manual.
12	**Paper Feed Cabinet PC-213**	Allows you to load up to 500 sheets respectively in the top and bottom trays. This unit is referred to as **Double Paper Feed Cabinet** in the manual.
13	**Paper Feed Cabinet PC-113**	Allows you to load up to 500 sheets in the top tray and use the bottom tray as a storage box. This unit is referred to as **Single Paper Feed Cabinet** in the manual.
14	**Finisher FS-534**	Sorts, groups and staples printed paper before outputting it. To install the **Finisher FS-534**, the **Relay Unit RU-514** is required. Also, **Desk DK-513**, **Paper Feed Cabinet PC-413**, **Paper Feed Cabinet PC-113**, or **Paper Feed Cabinet PC-213** must be installed on this machine.
15	**Saddle Stitcher SD-511**	Install this unit onto **Finisher FS-534**. This unit supports the fold/center staple function. It is referred to as **Saddle Stitcher** in the manual.
16	**Punch Kit PK-520**	Install this unit onto **Finisher FS-534**. This unit supports the punching function.
17	**Relay Unit RU-514**	Required to install the **Finisher FS-534**.
18	**Finisher FS-533**	Install this unit onto the output tray of this machine. The **Mount Kit MK-602** is required to install the **Finisher FS-533**. Sorts, groups and staples printed paper before outputting it.
19	**Mount Kit MK-602**	Required to install the **Finisher FS-533**.
20	**Punch Kit PK-519**	Install this unit onto **Finisher FS-533**. This unit supports the punching function.
21	**Job Separator JS-506**	Install this unit onto the output tray of this machine. This unit sorts printed sheets. This unit is referred to as **Job Separator** in the manual.

List of other optional components

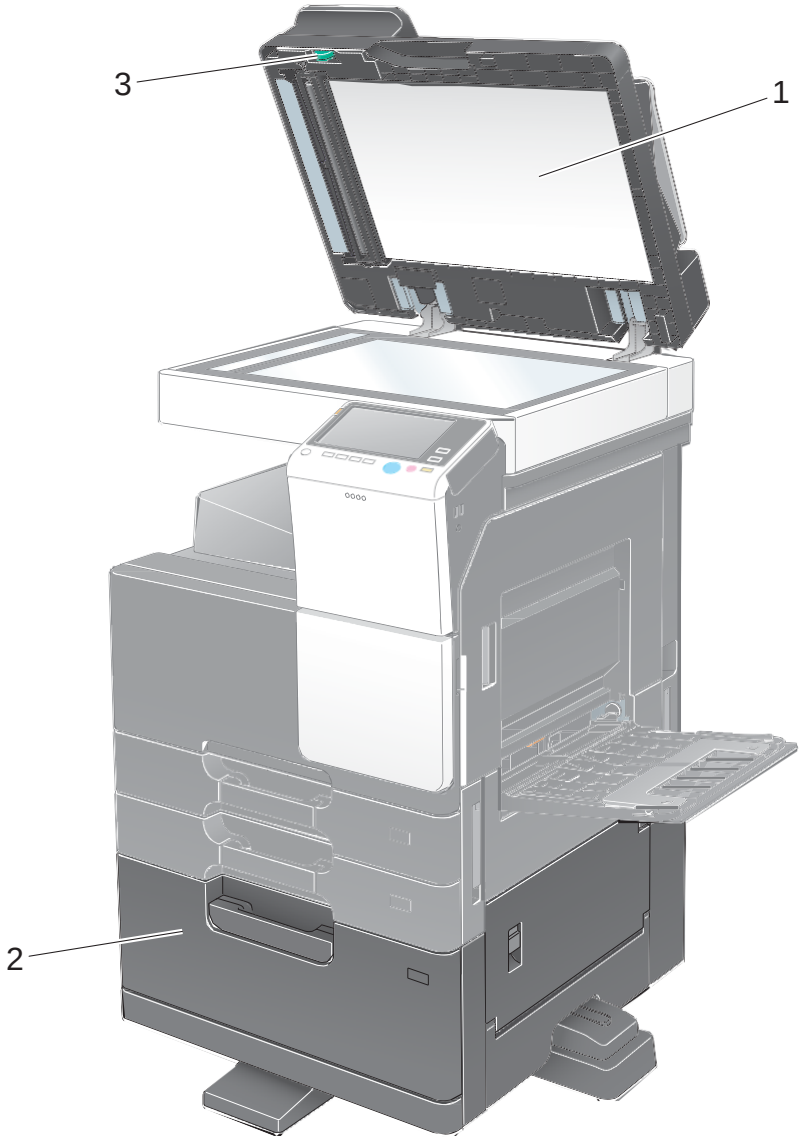
The following options are built into this machine and are not shown in the figure.

No.	Name	Description
1	**Stamp Unit SP-501**	Stamps a scanned original when sending a fax. This unit allows you to check that the original has been scanned.
2	**Spare TX Marker Stamp 2**	A replacement stamp for the **Stamp Unit SP-501**.
3	**Local Interface Kit EK-608**	Install this unit when using the voice guidance function, **Authentication Unit AU-102**, **Authentication Unit AU-201S**, or **Upgrade Kit UK-212**. The speaker and USB port are added.
4	**i-Option LK-102 v3**	Supports the PDF processing function that is one of the advanced functions.
5	**i-Option LK-104 v3**	Supports the voice guidance function that is one of the advanced functions.
6	**i-Option LK-105 v4**	Supports the searchable PDF function that is one of the advanced functions.
7	**i-Option LK-106**	Used to add a bar code font that is one of special fonts.
8	**i-Option LK-107**	Used to add a unicode font that is one of special fonts.
9	**i-Option LK-108**	Used to add an OCR font that is one of special fonts. In the standard, the OCR-B font (PostScript) is available. Installing the **i-Option LK-108** allows use of the OCR-A font (PCL).
10	**i-Option LK-110 v2**	Used to add an advanced function that converts a file into the DOCX or XLSX type or generates highly-functional and high-quality data. **i-Option LK-110 v2** includes the function licenses for **i-Option LK-102 v3** and **LK-105 v4**. If you purchase **i-Option LK-110 v2**, you do not need to purchase **i-Option LK-102 v3** or **LK-105 v4**. For details about functions able to be added, refer to "User's Guide[Advanced Function Operations]/[Advanced Functions]".
11	**i-Option LK-111**	Supports the ThinPrint function that is one of the advanced functions.
12	**i-Option LK-114**	Supports the universal print function that is one of the advanced functions.
13	**i-Option LK-115**	You can use TPM (Trusted Platform Module) that is one of the advanced functions. Security enhancement is realized by encrypting confidential information such as certificates and passwords of this machine.
14	**Upgrade Kit UK-211**	• Install this unit when using **i-Option LK-102 v3**, **LK-104 v3**, **LK-105 v4**, **LK-106**, **LK-107**, **LK-108**, **LK-110 v2**, or **LK-114**. • Install this unit when using My Address in association with **My Panel Manager**. This unit is referred to as **Extension Memory** in the manual.
15	**Upgrade Kit UK-212**	Allows you to use this machine in a wireless network environment. To install the **Upgrade Kit UK-212**, the **Local Interface Kit** is required. This unit is referred to as the **Wireless LAN Interface Kit** in the manual.
16	**Heater HT-509**	Prevents paper in a paper tray from being affected by humidity. To install **Heater HT-509**, **Desk DK-513**, **Paper Feed Cabinet PC-413**, **Paper Feed Cabinet PC-113**, or **Paper Feed Cabinet PC-213** must be installed on this machine.
17	**Power Supply BOX MK-734**	Turns on/off dehumidifier heater operations. To install **Power Supply BOX MK-734**, **Desk DK-513**, **Paper Feed Cabinet PC-413**, **Paper Feed Cabinet PC-113**, or **Paper Feed Cabinet PC-213** must be installed on this machine.
18	**Mount Kit MK-735**	Required to have **Authentication Unit AU-201S** built in to the main unit.

No.	Name	Description
19	**Hard Disk HD-522**	Used to increase the hard disk storage capacity to add functions. The hard disk is installed as the standard in North America and Europe.

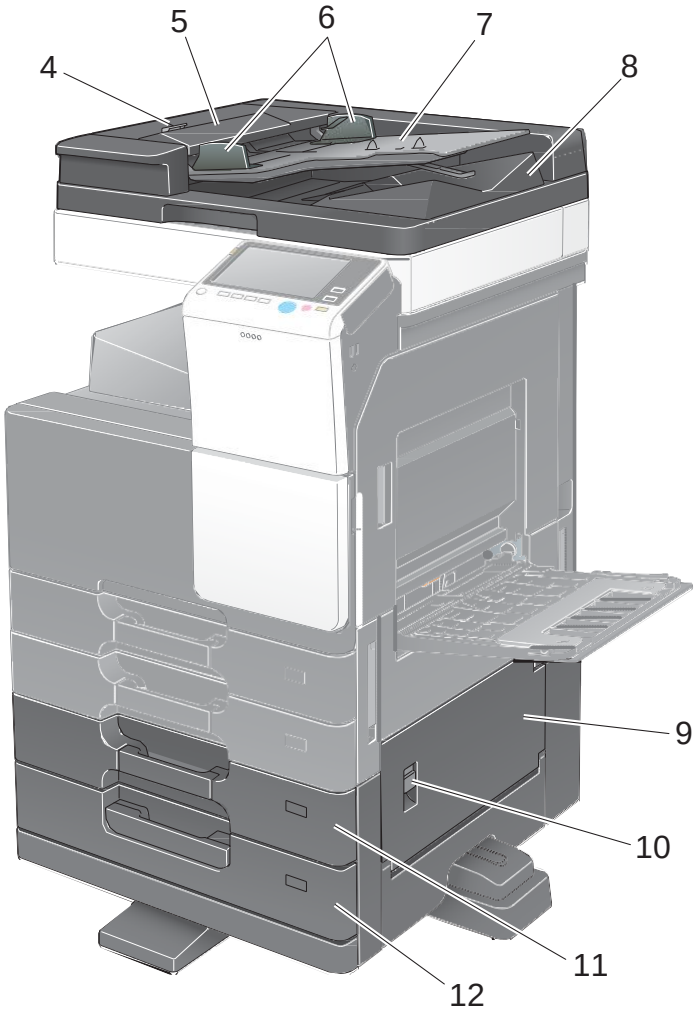
Front side

The illustration shows the main unit with **Reverse Automatic Document Feeder DF-628**, and **Paper Feed Cabinet PC-413**.



No.	Name	Description
1	**Original Pad**	Fixes the loaded originals.
2	**LCT (built-in)**	Allows you to load up to 2500 sheets. This tray can hold up to 1000 sheets of Thick 1, Thick 1+, Thick 2, and Thick 3.
3	Jam Removal Dial	Turn this dial to remove paper that caused a paper jam in the **ADF**.

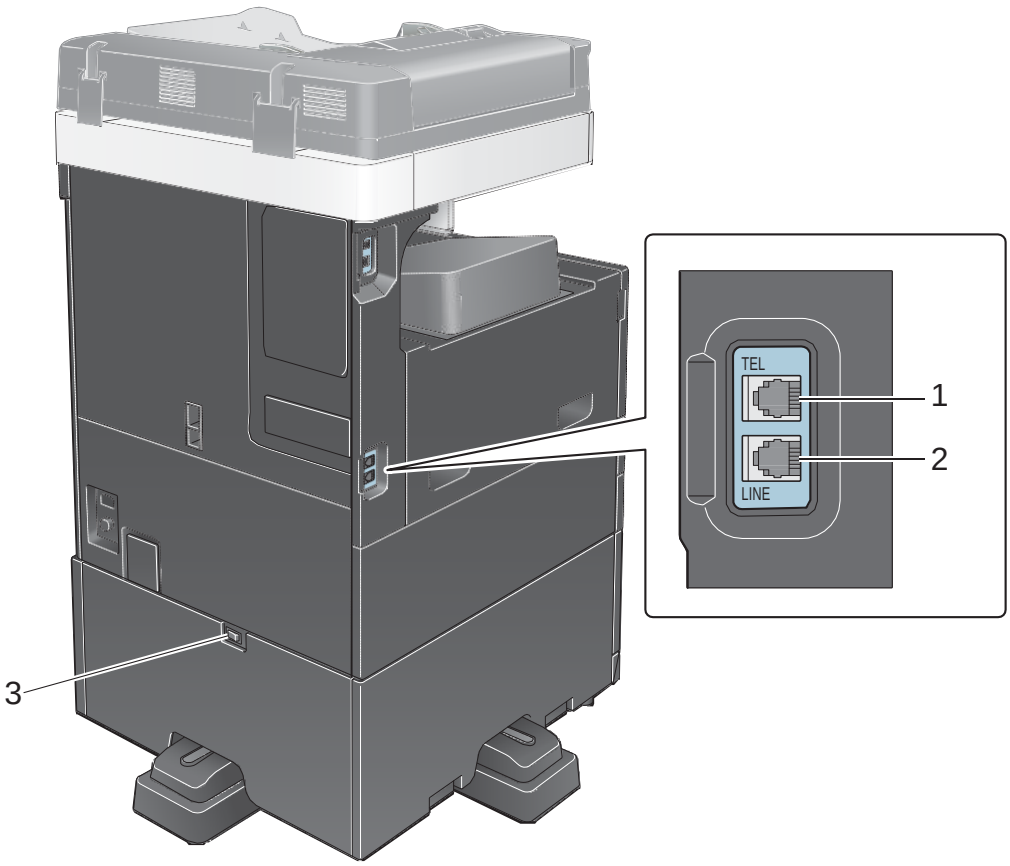
The illustration shows the main unit with **Paper Feed Cabinet PC-213** or **Paper Feed Cabinet PC-113**, and **Reverse Automatic Document Feeder DF-628**.



No.	Name	Description
4	**Left Cover Release Lever**	Used to open the **Left Cover**.
5	**Left Cover**	Open the **Left Cover** when clearing a paper jam.
6	**Lateral Guide**	Adjust this guide along the width of the original.
7	**Original Tray**	Load the original face up in this tray.
8	**Original Output Tray**	The scanned original is fed out onto this tray.
9	**Bottom Right Door**	Open this door when clearing a paper jam in the **Tray3** or **Tray4** transport unit.
10	**Bottom Right Door Release Lever**	Used to lock the **Bottom Right Door**.
11	**Tray3**	Allows you to load up to 500 sheets. This tray can hold up to 150 sheets of Thick 1, Thick 1+, Thick 2, and Thick 3.
12	**Tray4/Storage Box**	Used as a **Storage Box** when installing **Single Paper Feed Cabinet**. This box allows you to load up to 500 sheets when **Double Paper Feed Cabinet** is installed. This tray can hold up to 150 sheets of Thick 1, Thick 1+, Thick 2, and Thick 3.

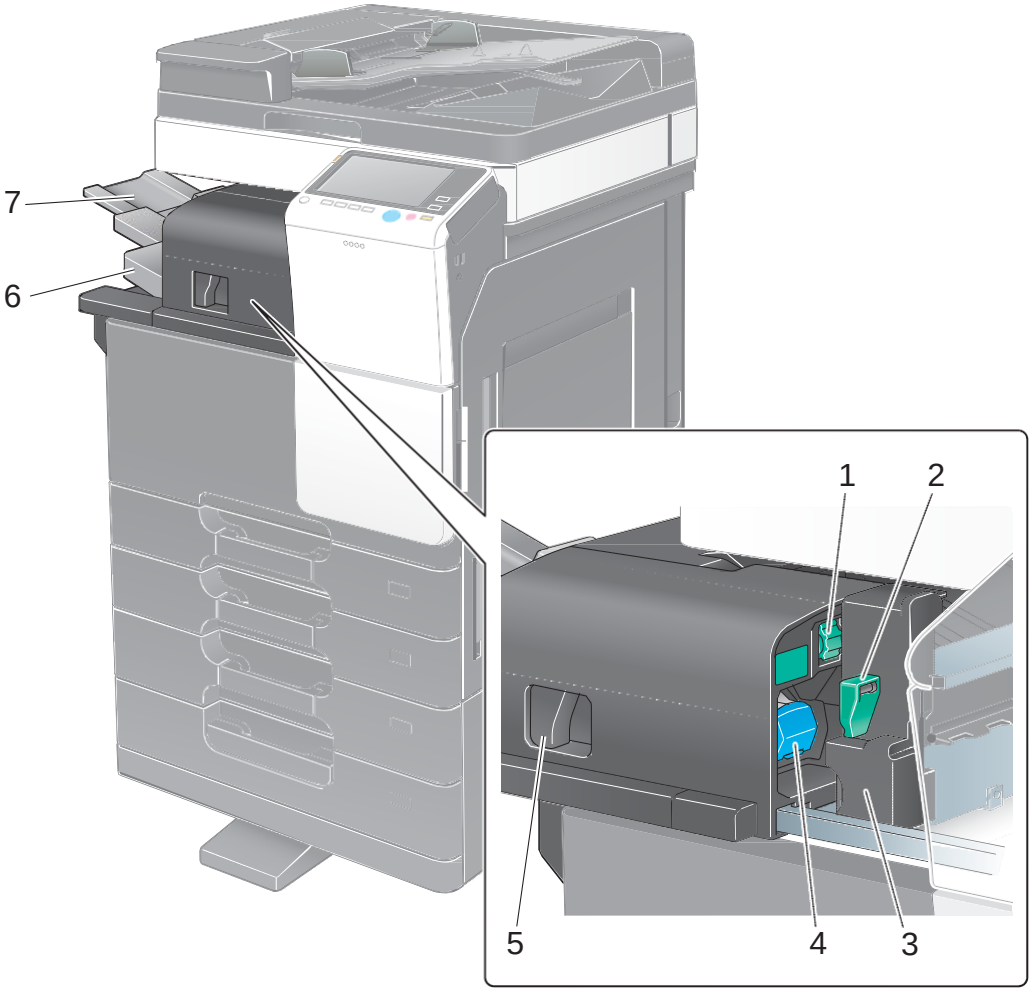
Left side/rear side

The illustration shows the main unit with **Reverse Automatic Document Feeder DF-628**, **Paper Feed Cabinet PC-213**, **Fax Kit FK-513**, and **Power Supply BOX MK-734**.



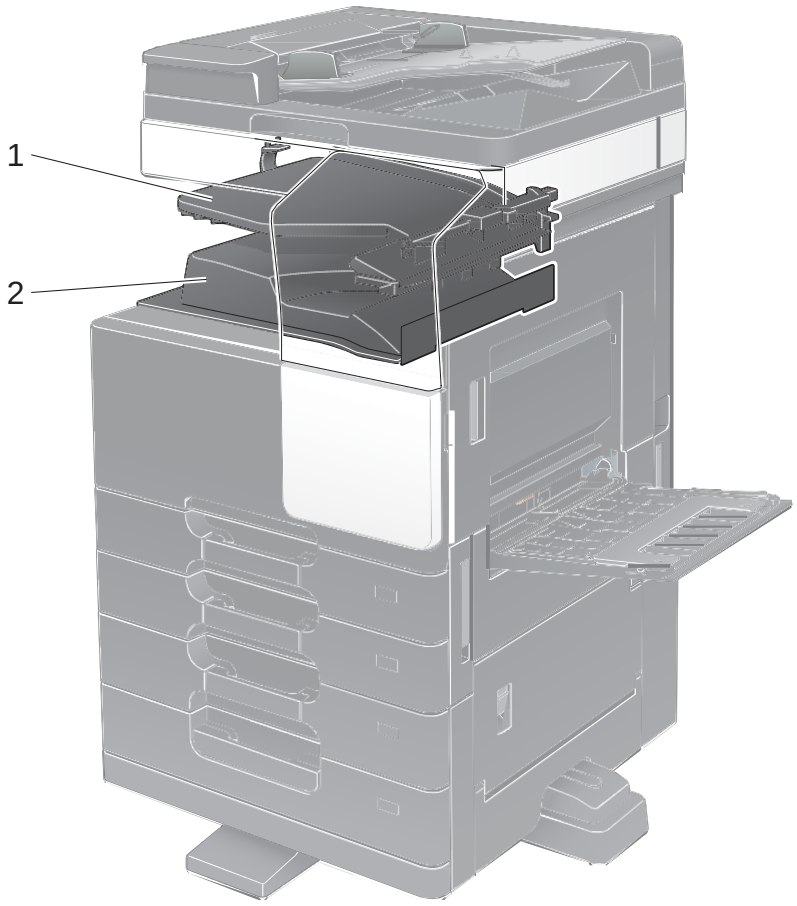
No.	Name	Description
1	**Jack for connecting a telephone (TEL PORT)**	Used to connect a telephone cord.
2	**Telephone Jack 1 (LINE PORT)**	Used to connect a general telephone subscriber line.
3	**Heater Power Switch**	Used to turn **Heater** operations on or off. This function prevents paper from being affected by humidity when the power is turned on. The dehumidifier **Heater** is available when you purchase **Single/Double Paper Feed Cabinet**, **LCT (built-in)**, or **Desk**.

3.2 Finisher FS-533, Punch Kit PK-519



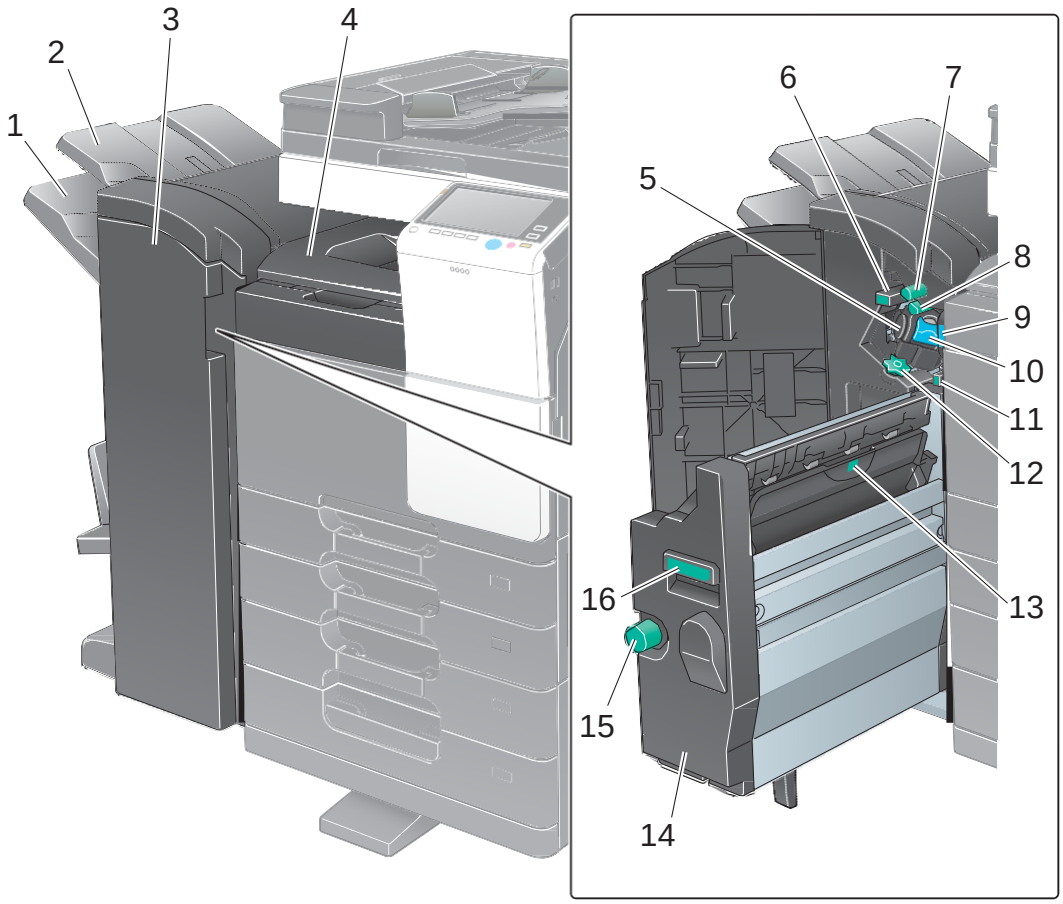
No.	Name	Description
1	**Jam Removal Dial** [FS1]	Turn this dial to remove paper that caused a paper jam in the finisher.
2	**Punch Kit Release Lever** [FS2]	Used to open the punch kit when removing a punch scrap box.
3	**Punch Kit**	You can punch printed sheets for filing by installing the Punch Kit in the finisher.
4	**Staple Cartridge**	Pull out this cartridge from the finisher when clearing a staple jam or replacing a staple cartridge.
5	**Lock Release Lever**	Used to release and move the finisher and main unit when clearing a paper jam.
6	**Output Tray**	Outputs printed pages.
7	**Tray Extension**	Pull this tray out when handling paper longer than 8-1/2 x 11 (A4) w.

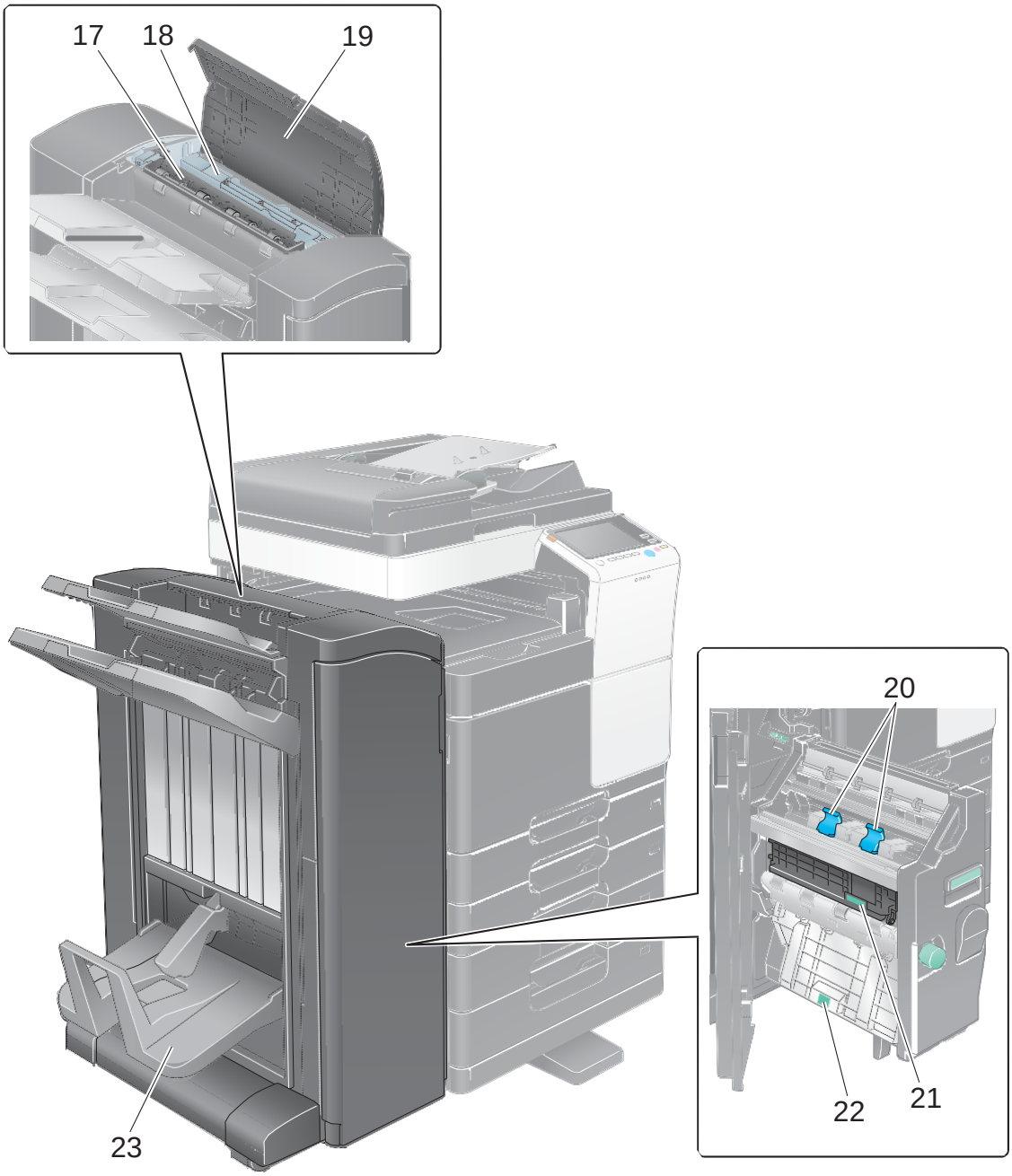
3.3 Job Separator JS-506



No.	Name	Description
1	**Output Tray1**	Outputs printed pages.
2	**Output Tray2**	Outputs printed pages.

3.4 Finisher FS-534/Saddle Stitcher SD-511/Punch Kit PK-520





No.	Name	Description
1	**Output Tray2**	Outputs printed pages.
2	**Output Tray1**	Outputs printed pages.
3	**Front Door**	Open this door when clearing a paper jam or staple jam or when replacing a staple cartridge.
4	**Horizontal Transport Unit Cover**	Open this cover when removing paper that caused a paper jam in the horizontal transport unit.
5	**Stapler**	Move this unit to the front side when clearing a staple jam.
6	**Guide Lever** [FS2]	Turn this lever to clear a paper jam.
7	**Jam Removal Dial** [FS1]	Turn this dial to remove paper that caused a paper jam in the finisher.
8	**Jam Removal Dial** [FS5]	Turn this dial to remove paper that caused a paper jam in the finisher.

No.	Name	Description
9	**Punch Scrap Box**	Remove this box when disposing of punch scraps.
10	**Staple Cartridge**	Pull out this cartridge from the finisher when clearing a staple jam or replacing a staple cartridge.
11	**Guide Lever** [FS4]	Turn this lever to clear a paper jam.
12	**Dial**	Turn this dial to move the stapler to the front side when clearing a staple jam.
13	**Handle** [SD2]	Turn this handle to clear a paper jam.
14	**Saddle Stitcher**	Pull out this unit when clearing a paper jam or staple jam or when replacing a staple cartridge.
15	**Jam Removal Dial** [SD3]	Turn this dial to remove paper that caused a paper jam in the finisher.
16	**Handle** [SD1]	Hold this handle when moving the **Saddle Stitcher** in and out.
17	**Transport Unit** [FS3]	Open this cover when removing paper that caused a paper jam in the transport unit.
18	**Punch Kit**	Punches printed sheets for filing by installing the Punch Kit in the finisher.
19	**Top Cover**	Open this cover when removing paper that caused a paper jam in the finisher.
20	**Staple Cartridge**	Pull out this cartridge from the **Saddle Stitcher** when clearing a staple jam or replacing a staple cartridge.
21	**Handle** [SD5]	Turn this handle to clear a paper jam.
22	**Handle** [SD4]	Turn this handle to clear a paper jam.
23	**Folding Output Tray**	Used to output printed pages by the fold/center staple function.

4

Checking the Specifications of This Machine

4 Checking the Specifications of This Machine

Main Unit

Item	Specifications
Name	**N512** **N511** **N510**
Type	Desktop
Scanning resolution	600 dpi x 600 dpi
Writing resolution	1800 dpi (equivalent) x 600 dpi
Gradation	256
Memory size	2 GB (std.), 4 GB (max.)
HDD	250 GB
Originals	Sheets, books, objects (Max. weight limit: 4-7/16 lb (2 kg))
Max. original size	11 x 17(A3)
Output size	Main unit: 11 x 17 to 8-1/2 x 11, 5-1/2 x 8-1/2, A3 to A5, 8 x 13 *1, 16K, 8K **Bypass Tray**: 11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 8 x 13 *1, 16K, 8K, Postcard (4 x 6 (A6 Card)), Envelope *2, Label sheet, Index paper *1 There are six types of foolscap: 8-1/2 x 13-1/2 w, 220 mm x 330 mm w, 8-1/2 x 13 w, 8-1/4 x 13 w, 8-1/8 x 13-1/4 w, and 8 x 13 w. Any one of these sizes is selectable. For details, contact your service representative. *2 Wrinkles or printing errors may occur due to the type, storage or environment that exists when envelope printing is carried out.
Image chipping width	Top edge: Max. 3/16 inches (4.2 mm) or less, Bottom edge: Max. 1/8 inches (3 mm) or less, Right/left edges: Max. 1/8 inches (3 mm) or less * 3/16 inches (4.2 mm) on each edge of the image is clipped when copied.
Paper weight	Main unit: 15-15/16 lb to 58-1/2 lb (60 g/m^2 to 220 g/m^2) **Bypass Tray**: 15-15/16 lb to 58-1/2 lb (60 g/m^2 to 220 g/m^2)
Warm-up time (73.4 °F (23 °C), std. voltage)	Time period from when the sub power off mode is released to when this machine is ready for printing while the **Main Power Switch** is in the ON state 15 sec. or less Time period from when the **Main Power Switch** is turned on to when this machine becomes ready for printing 20 sec. or less * Warm-up time may vary depending on the operating environment and usage.
First copy time	**N512** 4.5 sec. or less **N511/N510** 5.3 sec. or less
Copy speed	**N512** 36 sheets/min. (8-1/2 x 11 v or 7-1/4 x 10-1/2 v (A4 v or B5 v)) 20.2 sheets/min. (8-1/2 x 14 (B4)) 17.8 sheets/min. (11 x 17 (A3)) **N511** 28 sheets/min. (8-1/2 x 11 v or 7-1/4 x 10-1/2 v (A4 v or B5 v)) 15.8 sheets/min. (8-1/2 x 14 (B4)) 13.9 sheets/min. (11 x 17 (A3)) **N510** 22 sheets/min. (8-1/2 x 11 v or 7-1/4 x 10-1/2 v (A4 v or B5 v)) 15.8 sheets/min. (8-1/2 x 14 (B4)) 13.9 sheets/min. (11 x 17 (A3))

Item	Specifications
Copy magnification	< Fixed same magnification > Full size 1: 1 ^ 0.5% or less Enlarge Inch area 1: 1.214/1.294/1.545/2.000 Metric area 1: 1.154/1.224/1.414/2.000 Reduce Inch area 1: 0.785/0.733/0.647/0.500 Metric area 1: 0.866/0.816/0.707/0.500 < Preset > 3 types < Zoom > 25% to 400% (in 0.1% increments) < Lengthwise crosswise individual settings > 25% to 400% (in 0.1% increments)
Paper handling/paper capacity	**Paper Tray** (500 sheets (universal cassette) x 2) (17 lb (64 g/m^2)) **Bypass Tray** 100 sheets (17 lb (64 g/m^2))
Stacking capacity	250 sheets
Number of continuous copies	1 to 9999 sheets
Auto duplex	Non-stack type Paper size: 11 x 17 w to 5-1/2 x 8-1/2 w, 7-1/4 x 10-1/2, A3 to A5 w, B5 v, 8 e 13 w, 16K w/v, 8K w Paper weight: 15-15/16 lb to 55-5/8 lb (60 g/m^2 to 209 g/m^2)
Power supply	AC 120V, 12 A, 60 Hz (AC 220 v to 240 v, 7.0 A, 50/60 Hz)
Max. power consumption	1.5 kW
Dimensions [W] x [D] x [H]	23-1/16 inches (585 mm) x 26 inches (660 mm) x 28-15/16 inches (735 mm) (Main unit and up to the surface of Original Grass)
Space Requirements [W] x [D]	35-3/8 inches (899 mm) x 46-7/8 inches (1191 mm) * This shows the dimensions when the **Paper Trays** are pulled out and the **Tray Extension** of the **Bypass Tray** is opened.
Weight	Approx. 124-9/16 lb (56.5 kg)

Tips

N512 may not be available in some countries or regions.

Scanning Function Specifications

Item	Specifications
Type	Full-color scanner
Scanning size	Conforms to the main unit specifications.
Scanning resolution	Push: 200 dpi/300 dpi/400 dpi/600 dpi Pull: 100 dpi/200 dpi/300 dpi/400 dpi/600 dpi
Scanning speed	Color: 45 sheets/min., Black: 45 sheets/min. * Speed when scanning 8-1/2 x 11(A4) original in 300 dpi mode by using **ADF**.
Interface	Ethernet (1000Base-T/100Base-TX/10Base-T)
Supported protocols	TCP/IP (FTP, SMB, SMTP, WebDAV) (IPv4/IPv6)
Output format	TIFF, PDF, Compact PDF, PDF/A, Linearized PDF, JPEG, XPS, Compact XPS, OOXML (pptx, xlsx, docx), Searchable PDF
Supported operating systems	Windows Vista * Windows 7 * Windows 8 */Windows 8.1 * * Supports the 32-bit (x86) or 64-bit (x64) environment.
Driver	TWAIN Driver HDD TWAIN Driver

Printer Specifications

Item	Specifications
Type	Embedded
Paper size	Conforms to the main unit specifications.
Print speed	Conforms to the main unit specifications.
Resolution	1800 dpi (equivalent) e 600 dpi (at smoothing)
Page description language	PCL5e/c Emulation PCL6 (XL ver. 3.0) Emulation PostScript 3 Emulation (3016) XPS ver.1.0
Fonts	<PCL> European 80 fonts < PS > European 137 fonts
Supported protocols	TCP/IP (LPD, Raw, SMB, IPP) AppleTalk IPX/SPX
Supported operating systems (PCL)	Windows Server 2003 * Windows Server 2003 R2 * Windows Vista * Windows Server 2008 * Windows Server 2008 R2 Windows 7 * Windows 8 */Windows 8.1 * Windows Server 2012/Windows Server 2012 R2 * Supports the 32-bit (x86) or 64-bit (x64) environment.
Supported operating systems (PS)	Windows Server 2003 * Windows Server 2003 R2 * Windows Vista * Windows Server 2008 * Windows Server 2008 R2 Windows 7 * Windows 8 */Windows 8.1 * Windows Server 2012/Windows Server 2012 R2 * Supports the 32-bit (x86) or 64-bit (x64) environment. Mac OSX 10.6, 10.7, 10.8, 10.9, 10.10 (Intel-based PPD) Linux (PPD)
Supported operating systems (XPS)	Windows Vista * Windows Server 2008 * Windows Server 2008 R2 Windows 7 * Windows 8 */Windows 8.1 * Windows Server 2012/Windows Server 2012 R2 * Supports the 32-bit (x86) or 64-bit (x64) environment.
Interface	Ethernet (1000Base-T/100Base-TX/10Base-T) USB 2.0/1.1

5

Checking the Specifications of Optional Components

5 Checking the Specifications of Optional Components

Fax Kit FK-513

Item	Specifications
Model number	FK-513
Communication	Super G3
Applicable lines	Subscribed telephone lines (including facsimile communication networks) PBX lines
Line density	Ultra Fine: 600 dpi e 600 dpi Super Fine: 16 dot/mm e 15.4 line/mm, 400 dpi x 400 dpi Fine: 8 dot/mm e 7.7 line/mm, 200 dpi x 200 dpi Normal: 8 dot/mm e 3.85 line/mm Faxes are transmitted at any of the above scanning line densities according to the capabilities of a recipient's machine.
Modem speed	2400/4800/7200/9600/12000/14400/16800/19200/ 21600/24000/26400/28800/31200/33600 bps
Compression	JBIG, MMR, MR, MH
Sending paper size	**Original Glass**: 11-11/16 inches x 17 inches (297 mm x 431.8 mm) (11 x 17 (A3) size) **ADF**: 11-11/16 inches x 39-3/8 inches (297 mm x 1000 mm) (Normal, Fine, Super Fine) 11-11/16 inches x 17 inches (297 mm x 431.8 mm) (Ultra Fine, Manual Transmission)
Recording paper size	11-11/16 inches x 16-9/16 inches (297 mm x 420 mm) (11 x 17 (A3) size) The machine cannot receive a document that exceeds 39-3/8 inches (1000 mm) in length. If the received document is longer than the specified paper size, it is printed out based on the page separation setting.
Transmission speed	Less than 3 seconds per page * Time when sending an our standard 8-1/2 x 11 (A4) original including 700 characters with the normal image quality (8 dot/mm e 3.85 line/mm) in super G3 mode (ITU-T V.34 base 33.6 kbps or more) with JBIG.
Number of abbr. dials	2000
Number of program dials	400
Number of group dials	100
Sequential multiple station transmission	Max. 600

Reverse Automatic Document Feeder DF-628

Item	Specifications
Document feeder type	Reverse Automatic Document Feeder
Original types	Thin paper 1-sided original: 9-5/16 lb to 13-1/16 lb (35 g/m^2 to 49 g/m^2) Plain paper 1-sided original: 13-5/16 lb to 34-1/16 lb (50 g/m^2 to 128 g/m^2) 2-sided original: 13-5/16 lb to 34-1/16 lb (50 g/m^2 to 128 g/m^2) Mixed original: 13-5/16 lb to 34-1/16 lb (50 g/m^2 to 128 g/m^2)

Item	Specifications
Original size	Max. 11 x 17 (A3) (Fax mode: Max. 39-3/8 inches (1000 mm))
Original loading capacity	130 sheets (18-1/16 lb (68 g/m^2)) Supports same type original or different types mixed original.
Feeding speed	* When copying (Letter (8-1/2 x 11 v) or A4 v, resolution 600 dpi) 1-sided original: 36 sheets/min. 2-sided original: 17 sheets/min.
Power supply	Supply from machine
Dimensions [W] x [D] x [H]	23-1/16 inches (585 mm) x 19-13/16 inches (504 mm) x 5 inches (127 mm)
Weight	Approx. 19-13/16 lb (9 kg)

Paper Feed Cabinet PC-113

Item	Specifications
Model number	PC-113
Unit configuration	Paper tray, 1 level
Paper type	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2))
Paper size	11 x 17 to 5-1/2 x 8-1/2, A3 to A5, 8 x 13, 16K, 8K
Paper capacity	Plain paper: 500 sheets Thick: 150 sheets
Power supply	Supply from machine
Max. power consumption	15 W or less
Dimensions [W] x [D] x [H]	22-3/16 inches (564 mm) x 25-3/16 inches (640 mm) x 14 inches (356.3 mm)
Weight	Approx. 50-11/16 lb (23 kg)

Paper Feed Cabinet PC-213

Item	Specifications
Model number	PC-213
Unit configuration	Paper tray, 2 levels
Paper type	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2))
Paper size	11 x 17 to 5-1/2 x 8-1/2, A3 to A5, 8 x 13, 16K, 8K
Paper capacity	Upper Tray (**Tray3**) Plain paper: 500 sheets Thick: 150 sheets Lower Tray (**Tray4**) Plain paper: 500 sheets Thick: 150 sheets
Power supply	Supply from machine
Max. power consumption	15 W or less
Dimensions [W] x [D] x [H]	22-3/16 inches (564 mm) x 25-3/16 inches (640 mm) x 14 inches (356.3 mm)
Weight	Approx. 57-5/16 lb (26 kg)

Paper Feed Cabinet PC-413

Item	Specifications
Model number	PC-413
Paper type	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2))
Paper size	8-1/2 x 11, A4
Number of sheets able to be loaded	Plain paper: 2500 sheets Thick: 1000 sheets
Power supply	Supply from machine
Max. power consumption	15 W or less
Dimensions [W] x [D] x [H]	22-3/16 inches (564 mm) x 25-3/16 inches (640 mm) x 14 inches (356.3 mm)
Weight	Approx. 54 lb (24.5 kg)

Finisher FS-534

Item		Specifications
Model number		FS-534
Paper size (**Output Tray1**)		11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 16K, 8K, Postcard (4 x 6 (A6 Card))
Paper size (**Output Tray2**)	Group/Sort	11 x 17 to 5-1/2 x 8-1/2, A3 to A5, 16K, 8K
	Offset Group/Offset Sort	11 x 17 to 7-1/4 x 10-1/2, A3 to B5, A5 v, 16K, 8K
	Staple	11 x 17 to 7-1/4 x 10-1/2, A3 to B5, A5 v, 16K, 8K
Paper size (**Folding Output Tray**)		11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 16K, 8K, Postcard (4 x 6 (A6 Card))
Stacking capacity (**Output Tray1**)		Plain paper: 200 sheets Thick: 20 sheets

Item		Specifications
Stacking capacity (**Output Tray2**)	Sort/Group	Plain paper • 8-1/2 x 11 (A4), 7-1/4 x 10-1/2 (B5): 3000 sheets * • 8-1/2 x 14 (B4) or more: 1500 sheets • 5-1/2 x 8-1/2 (A5) or less: 500 sheets Thick, Transparency, Envelope, Label sheet, Letterhead: 20 sheets * Paper cannot be stacked higher than the following height regardless of the number of sheets in the stack. • 8-1/2 x 11 (A4) or less: 14-3/4 inches (375 mm) • 8-1/2 x 14 (B4) or more: 7-3/8 inches (187.5 mm) * 2000 sheets of paper can be stacked when the **Saddle Stitcher SD-511** is installed.
	Offset Sort/Offset Group	Plain paper • 8-1/2 x 11 (A4), 7-1/4 x 10-1/2 (B5): 3000 sheets * • 8-1/2 x 14 (B4) or more: 1500 sheets • 5-1/2 x 8-1/2 (A5) or less: 500 sheets Thick: 20 sheets * Paper cannot be stacked higher than the following height regardless of the number of sheets in the stack. • 8-1/2 x 11 (A4) or less: 14-3/4 inches (375 mm) • 8-1/2 x 14 (B4) or more: 7-3/8 inches (187.5 mm) * 2000 sheets of paper can be stacked when the **Saddle Stitcher SD-511** is installed.
	Staple	Plain paper • 2 to 9 sheets: 100 copies • 10 to 20 sheets: 50 copies • 21 to 30 sheets: 30 copies • 31 to 40 sheets: 25 copies • 41 sheets or more: 20 copies Thick: 20 copies * Paper cannot be stacked higher than the following height regardless of the number of books in the stack. • 8-1/2 x 11 (A4) or less: 14-3/4 inches (375 mm) • 8-1/2 x 14 (B4) or more: 7-3/8 inches (187.5 mm)
Staple mode		Corner Rear/front of 45° (11 x 17, 8-1/2 x 11 v, A3, B4, A4 v, B5 v) Corner Rear/front horizontal (8-1/2 x 14, 8-1/2 x 11 w, A4 w, B5 w, A5 v) 2 points on the side horizontal (11 x 17 to 8-1/2 x 11, A3 to B5, A5 v)
Staple capacity	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2))	Max. 50 sheets
	Thick (24-3/16 lb to 31-15/16 lb (91 g/m^2 to 120 g/m^2))	Max. 30 sheets
	Thick (32-3/16 lb to 39-7/8 lb (121 g/m^2 to 150 g/m^2))	Max. 15 sheets
Available options		**Saddle Stitcher SD-511**, **Punch Kit PK-520**
Power supply		Supply from machine
Consumables		Staple: **Staple Kit SK-602**
Max. power consumption		105 W or less
Dimensions [W] x [D] x [H]		20-5/8 inches (528 mm) x 25-1/4 inches (641 mm) x 40-1/4 inches (1023 mm) With trays pulled out: 25-7/8 inches (658 mm) x 25-1/4 inches (641 mm) x 41-15/16 inches (1065 mm)
Weight		Approx. 88-3/16 lb (40 kg)

Saddle Stitcher SD-511

Item		Specifications
Model number		SD-511
Applicable		**Finisher FS-534**
Paper size		• Center Staple, Half-Fold: 11 x 17, 8-1/2 x 14, 8-1/2 x 11 w, A3, B4, A4 w, 8K • Tri-Fold: 8-1/2 x 11 w, A4 w, 16K w
Paper type	Center Staple	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 39-7/8 lb (91 g/m^2 to 150 g/m^2))* * Can be used only as a cover page.
	Half-Fold	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 39-7/8 lb (91 g/m^2 to 150 g/m^2))* * Can be used by only one sheet.
	Tri-Fold	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2))
Stacking capacity	Center Staple, Half-Fold	• 1 sheet to 3 sheets : 20 copies • 4 to 10 sheets: 10 copies • 11 to 20 sheets: 5 copies
	Tri-Fold	• 1 sheet : 30 copies • 2 to 3 sheets: 10 copies
Maximum number of sheets that can be center-stapled		20 sheets Example number of stapled sheets: Front cover (15-15/16 lb to 39-7/8 lb (60 g/m^2 to 150 g/m^2)) 1 sheet + Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)) 19 sheets
Maximum number of folded sheets	Half-Fold	• Thin paper, Plain paper : 5 sheet • Thick mode: 1 sheet
	Tri-Fold	1 sheet to 3 sheets
Power supply		Supply from **Finisher**
Dimensions [W] x [D] x [H]		8-1/4 inches (210 mm) x 21-7/8 inches (556 mm) x 21-9/16 inches (547 mm)
Weight		Approx. 52-15/16 lb (24 kg)

Punch Kit PK-520

Item	Specifications
Model number	PK-520
Applicable	**Finisher FS-534**
Number of punch holes	2 holes, 3 holes, 4 holes
Paper size	11 x 17 to 7-1/4 x 10-1/2, A3 to B5, 16K, 8K
Paper type	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2))
Power supply	Supply from **Finisher**
Dimensions [W] x [D] x [H]	2-3/8 inches (61 mm) x 19-3/8 inches (492 mm) x 5-9/16 inches (142 mm)
Weight	Approx. 3-15/16 lb (1.8 kg)

Finisher FS-533

Item	Specifications
Model number	FS-533

Item		Specifications
Paper size	Group/Sort	11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 16K, 8K, Postcard (4 x 6 (A6 Card))
	Offset Group/Offset Sort	11 x 17 to 7-1/4 x 10-1/2, A3 to B5, 16K, 8K
	Staple	11 x 17 to 7-1/4 x 10-1/2, A3 to B5, 16K, 8K
Paper type	Group/Sort	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2)), Transparency, Postcard (4 x 6 (A6 Card)), Envelope, Label sheets, Letterhead paper, Index paper
	Offset Group/Offset Sort	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2))
	Staple	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 39-7/8 lb (91g/m^2 to 150 g/m^2))
Stacking capacity (**Output Tray1**)	Group, Sort, Offset Group, Offset Sort	Plain paper • 8-1/2 x 11 (A4), 7-1/4 x 10-1/2 (B5): 500 sheets • 8-1/2 x 14 (B4) or more: 250 sheets Thick: 10 sheets * Paper cannot be stacked higher than the following height regardless of the number of sheets in the stack. • 8-1/2 x 11 (A4) or less: 2-7/8 inches (73 mm) • 8-1/2 x 14 (B4) or more: 1-7/16 inches (36 mm)
	Staple	Plain paper • 8-1/2 x 11 (A4), 7-1/4 x 10-1/2 (B5): 50 copies • 8-1/2 x 14 (B4) or more: 30 copies Thick: Not specified. * Paper cannot be stacked higher than the following height regardless of the number of books in the stack. • 8-1/2 x 11 (A4) or less: 2-7/8 inches (73 mm) • 8-1/2 x 14 (B4) or more: 1-7/16 inches (36 mm)
Staple capacity		8-1/2 x 11 (A4) or less: 50 sheets 8-1/2 x 14 (B4) or more: 30 sheets Example number of stapled sheets: Thick (39-7/8 lb (150 g/m^2)) 2 sheets + Plain paper (23-15/16 lb (90 g/m^2)) 48 sheets
Available options		**Punch Kit PK-519**
Power supply		Supply from machine
Consumables		Staple: **Staple Kit SK-602**
Max. power consumption		40 W or less
Dimensions [W] x [D] x [H]		18-5/8 inches (472.5 mm) x 23 inches (583.5 mm) x 7-11/16 inches (194.7 mm)
Weight		Approx. 26-7/16 lb (12 kg)

Punch Kit PK-519

Item	Specifications
Model number	PK-519
Applicable	**Finisher FS-533**
Number of punch holes	2 holes, 3 holes, 4 holes
Paper size	11 x 17 to 7-1/4 x 10-1/2, A3 to B5
Paper type	Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 55-5/8 lb (91 g/m^2 to 209 g/m^2))
Power supply	Supply from **Finisher**
Dimensions [W] x [D] x [H]	4-5/16 inches (110.2 mm) x 19-1/16 inches (483.5 mm) x 8 inches (203.2 mm)

Item	Specifications
Weight	Approx. 7-1/16 lb (3.2 kg)

Job Separator JS-506

Item		Specifications
Model number		JS-506
Paper size	**Output Tray1**	11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 16K, 8K, Postcard (4 x 6 (A6 Card))
	Output Tray2	• Group/Sort: 11 x 17 to 5-1/2 x 8-1/2, A3 to A5, B6 w, A6 w, 16K, 8K, Postcard (4 x 6 (A6 Card)) • Offset Group/Offset Sort: 11 x 17 to 7-1/4 x 10-1/2, A3 to B5, 16K, 8K
Paper type		Plain paper (15-15/16 lb to 23-15/16 lb (60 g/m^2 to 90 g/m^2)), Thick (24-3/16 lb to 58-1/2 lb (91 g/m^2 to 220 g/m^2)), Transparency, Postcard (4 x 6 (A6 Card))*, Envelope, Label sheets, Letterhead paper, Index paper* * Output into **Output Tray2**
Paper loading capacity (**Output Tray1**)		Plain paper: 100 sheets * Paper cannot be stacked higher than 7/8 inches (22.5 mm) regardless of the number of sheets in the stack.
		Thick, Transparency, Postcard (4 e 6 (A6 Card)), Envelope, Label sheet, Index paper: 10 sheets * Paper cannot be stacked higher than 7/8 inches (22.5 mm).
Paper loading capacity (**Output Tray2**)	Group/Sort	Plain paper: 150 sheets Thick, Transparency, Postcard (4 e 6 (A6 Card)), Label sheet, Index paper: 20 sheets Envelope: 10 sheets * Paper cannot be stacked higher than 1-15/16 inches (49.9 mm) regardless of the number of sheets in the stack.
	Offset Group/Offset Sort	Plain paper: 150 sheets Thick: 20 sheets * Paper cannot be stacked higher than 1-15/16 inches (49.9 mm) regardless of the number of sheets in the stack. Shift amount: 1-3/16 inches (30 mm)
Power supply		Supply from machine
Max. power consumption		24 W or less
Dimensions [W] x [D] x [H]		17-3/4 inches (451 mm) x 18-7/16 inches (469 mm) x 5-1/8 inches (130 mm)
Weight		Approx. 3-5/16 lb (1.5 kg)

Authentication Unit AU-102

Item		Specifications
Name		Biometric Authentication Unit AU-102
Biometric sensor system		Transmission-type optical system
Verification time		Approx. 1 sec. or less
Interface		USB 2.0
Dimensions [W] x [D] x [H]		2-5/16 inches (59 mm) x 3-1/4 inches (82 mm) x 2-15/16 inches (74 mm)
Weight		Approx. 3/16 lb (0.1 kg) (Excluding USB cable)
Max. power consumption		DC 5 V 500 mA
System conditions (operating state)	Ambient temperature	41 °F to 95 °F (5 °C to 35 °C)
	Humidity	20 % to 80 % (No dew condensation)

Item		Specifications
System conditions (non-operating state)	Ambient temperature	32 °F to 122 °F (0 °C to 50 °C)
	Humidity	20 % to 80 % (No dew condensation)
Compatible computer	Computer	PC-AT compatible machine
	CPU	Conforms to the recommended operating environment of your operating system.
	Memory (RAM)	Conforms to the recommended operating environment of your operating system.
	Free space on hard disk	600 MB or more
	Monitor	800 x 600 pixels or more
	Network	Must be configured with the correct TCP/IP or IPX/SPX protocol settings.
	Application	Microsoft Internet Explorer 9.0 (SP1) or later Windows Vista/8/8.1: Microsoft .NET Framework 3.5 (SP1 or later) Windows 7 is equipped with .NET Framework required to operate **Data Administrator** as the standard.
	Interface	Conforms to USB 2.0.
	Supported Operating Systems	For the supported operating systems, refer to Readme.

Authentication Unit AU-201S

Item		Specifications
Name		Card Authentication Unit AU-201 S
Dimensions [W] x [D] x [H]		3-7/8 inches (98 mm) x 2-1/2 inches (64 mm) x 1/2 mm (13 mm)
Weight		Approx. 1/4 lb (0.1 kg)
Power supply		Power feeding from USB port
System conditions (operating state)	Ambient temperature	32 °F to 104 °F (0 °C to 40 °C)
	Humidity	20 % to 85 % (No dew condensation)
System conditions (non-operating state)	Ambient temperature	-4 °F to 122 °F (-20 °C to 50 °C)
	Humidity	20 % to 85 % (No dew condensation)
Radio law division		Self-guided read-write communication facility
Applicable card		FeliCa (IDm), SSFC, FCF, FCF (campus), Type A
Acquired standard		VCCI class B

Item		Specifications
Compatible computer	Computer	PC-AT compatible machine
	CPU	Conforms to the recommended operating environment of your operating system.
	Memory (RAM)	Conforms to the recommended operating environment of your operating system.
	Free space on hard disk	600 MB or more
	Monitor	800 x 600 pixels or more
	Network	Must be configured with the correct TCP/IP or IPX/SPX protocol settings.
	Application	Microsoft Internet Explorer 9.0 (SP1) or later Windows Vista/8/8.1: Microsoft .NET Framework 3.5 (SP1 or later) Windows 7 is equipped with .NET Framework required to operate **Data Administrator** as the standard.
	Interface	Conforms to USB 2.0.
	Supported Operating Systems	For the supported operating systems, refer to Readme.

6

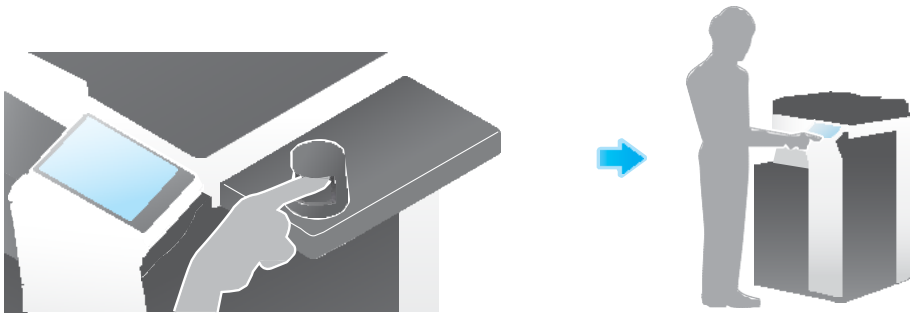
Using the Authentication Unit (Biometric Type)

6 Using the Authentication Unit (Biometric Type)

6.1 Authentication Unit (Biometric Type)

The **Authentication Unit** (Biometric Type) is a "biometrics (biometric authentication) system" that scans finger vein patterns to perform personal authentication. It offers a system that makes it difficult for someone to masquerade as an authorized user, realizing enhanced security.

If this machine provides the user authentication, you can log in to this machine or execute a print job using the biometric authentication function.



Tips

- To employ biometric authentication, the optional **Authentication Unit** (biometric type) is required. Also, to install the **Authentication Unit** (biometric type), the **Working Table** and **Local Interface Kit** are required.

⊙ Reference

For details on the user authentication, refer to "User's Guide[Web Management Tool]/[Restricting Users from Using this Device]".

6.2 Status of Authentication Unit

The status of the authentication unit is indicated by status indicator LEDs and beep sounds.

Status indicator LEDs	Status
Lit up green	Ready state, or scanning or authentication is completed
Flash in green	During authentication
Lit up red	Scanning or authentication failed
Unlit	The authentication unit is not recognized

Beep sound	Status
One short blip sound	Scanning is completed, scanning test was successful or authentication is completed
Two short blip sounds repeated three times	Scanning failed
Two short blip sounds	Authentication failed

6.3 Operations Required to Use This Function (for the Administrator)

6.3.1 Configuring Authentication Settings of This Machine

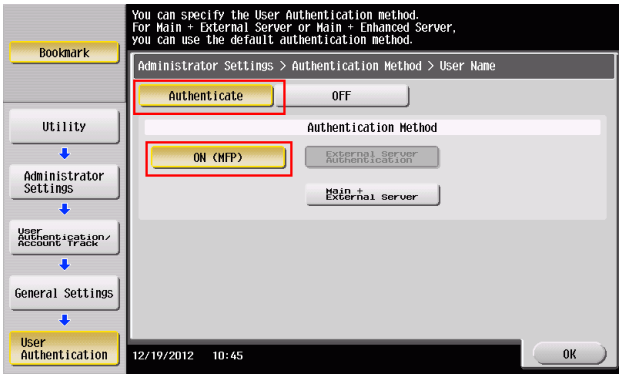
First, configure the authentication function of this machine (ON (MFP)).

Tips

- This machine does not support external server authentication.
- You can use a combination of user authentication based on biometric information and account track to manage users for each account track. Combining account track allows you to associate users with account tracks for management or individually manage them. For details on account tracks, refer to "User's Guide[Web Management Tool]/[Restricting Users from Using this Device]".

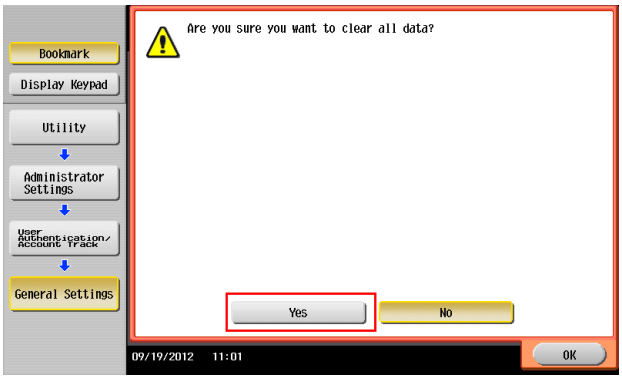
1 Tap [Utility] - [Administrator Settings] - [User Authentication/Account Track] - [General Settings] - [User Authentication].

2 Set [Authentication Method] to [ON (MFP)], then tap [OK].



3 Tap [OK].

4 Select [Yes], then tap [OK].



5 Tap [Authentication Device Settings] - [General Settings] - [Bio Authentication], and configure the following setting.

Settings	Description
[Beep Sound]	Select whether to give a "blip" sound when the finger vein pattern is scanned successfully. [ON] is specified by default.
[Operation Settings]	Select how to log in to this machine. • [1-to-many authentication]: Simply place his or her finger to log in. • [1-to-1 authentication]: Enter the user name and position his or her finger to log in. [1-to-many authentication] is specified by default.

6 Tap [OK].

7 If desired, tap [Logoff Settings] to configure automatic logout settings.

→ Select whether to automatically log out when original scanning has been completed (default: [Do not log off]).

8 Tap [OK] to exit the authentication settings of this machine.

6.3.2 Registering User Authentication Information

After the authentication function of this machine (ON (MFP)) has been configured, register user authentication information.

The following two methods are available to register information.

- Connect the authentication unit to this machine, and use the **Touch Panel** to register information.
- Connect the authentication unit to a computer, and use **Data Administrator** through a computer to register information.

This section explains how to connect the authentication unit to this machine and use the **Touch Panel** to register information. For how to use **Data Administrator** for registration, refer to page 6-13.

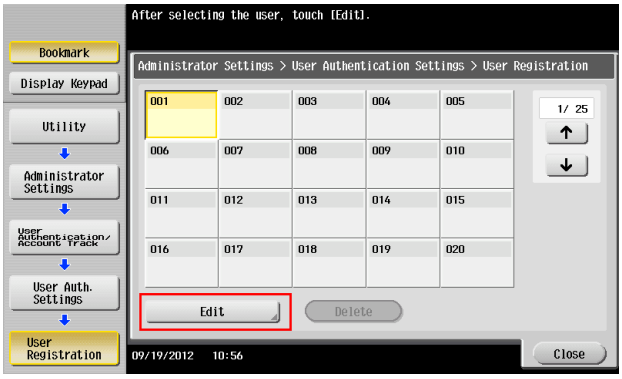
NOTICE

User information is stored in the hard disk of this machine. If any changes are made to the general settings of this machine or to the way the hard disk is formatted, the registered user information is erased.

◎ Before starting this procedure, connect the authentication unit to this machine.

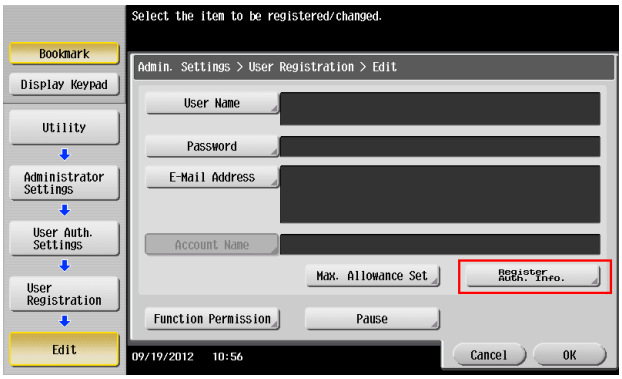
1 Tap [Utility] - [Administrator Settings] - [User Authentication/Account Track] - [User Authentication Settings] - [User Registration].

2 Select a desired registration number, then tap [Edit].



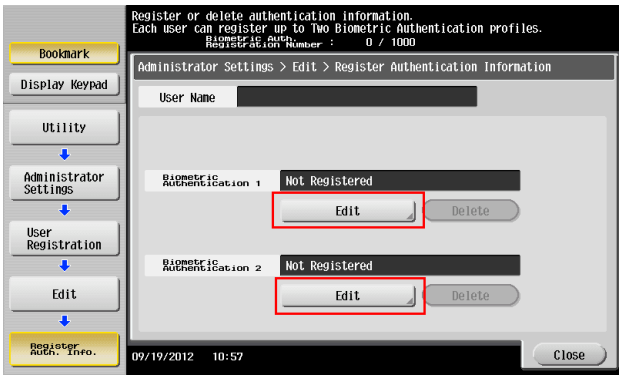
3 Enter the user name and password, and tap [Register Auth. Info.].

→ To restrict functions applicable to users, select Function Permission.



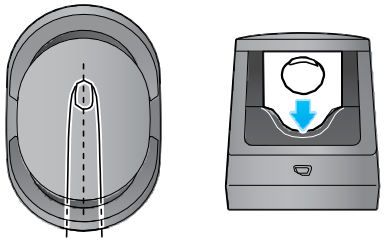
4 Tap [Edit].

→ Up to two authentication information items can be registered for each user. For [Biometric Authentication 1] and [Biometric Authentication 2], register separate fingers. You should register two authentication information items in case you injure your finger.



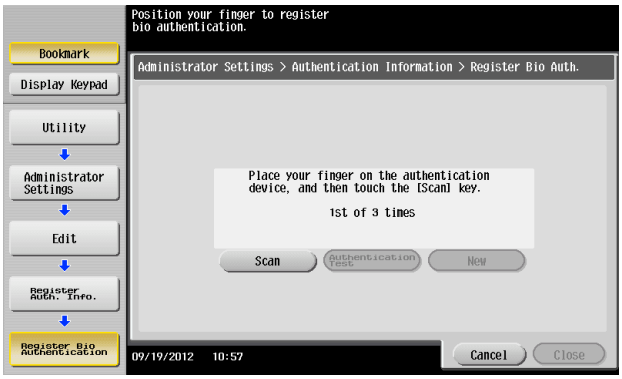
5 Place your finger on the authentication unit to scan the finger vein pattern.

→ Place your finger straight so that your finger cushion lightly touches the hollow and protuberance part of the scanning section.



→ Scan a finger vein pattern three times. Place the same finger on the authentication unit again after scanning just once, and tap [Scan].

→ After scanning the finger vein patterns, place the same finger, then tap [Authentication Test]. If the authentication test has succeeded, tap [New]. If the authentication test has failed, retry scanning.



NOTICE

Do not place anything other than your finger on the scanning section during scanning operation. Otherwise, it may result in a malfunction.

Do not disconnect the USB cable from the authentication unit during scanning. Doing so may cause the system to become unstable.

6 Tap [Close] to finish the user information registration.

6.4 Logging in to This Machine

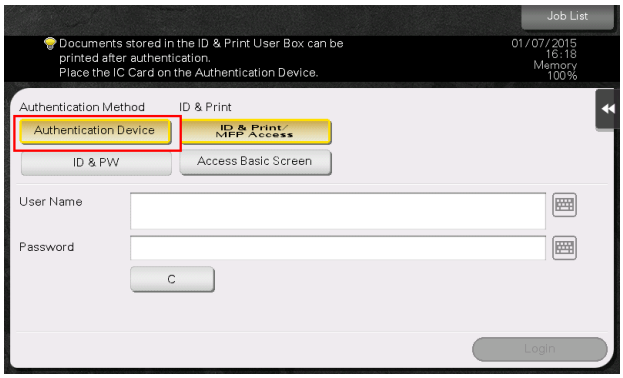
The login methods vary depending on the authentication settings of this machine.

- [1-to-many authentication] allows the user to log in by simply placing his or her finger on the authentication unit.
- [1-to-1 authentication] allows the user to log in by entering their user name and placing his or her finger on the authentication unit.

◎ If a new user attempts to log in to this machine while another user is already logging in, the latter login user is logged out automatically, and the new user is able to log in to this machine. When a login user is logged out automatically, the logout confirmation screen appears.

1 Check that [Authentication Device] is selected in [Authentication Method].

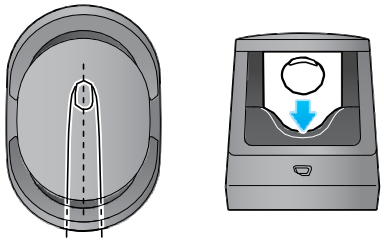
→ If [1-to-1 authentication] is selected, enter the user name.



2 Place your finger on the authentication unit.

→ Place your finger straight so that your finger cushion lightly touches the hollow and protuberance part of the scanning section.

Authentication starts. If authentication succeeds, you can log in to this machine.



Tips

- If authentication fails frequently, finger vein patterns may not be registered correctly. Register finger vein patterns again.

Related setting (for the administrator)

- Select whether to display the logout confirmation screen (default: [ON]). For details, refer to "User's Guide[Descriptions of Functions/Utility Keys]/[Utility]".

6.5 Using Data Administrator (for the Administrator)

6.5.1 Data Administrator

Data Administrator is a management tool to edit or register authentication information or address information of the target device through a computer on the network.

Using this tool allows you to import authentication information or address information from a device and rewrite it to the device after editing.

6.5.2 Setting Up the Operating Environment

Installing BioDriver (USB-Driver) (Windows 7/8/8.1)

To use **Data Administrator**, set up the operating environment after configuring authentication settings of this machine.

For setup, install the **BioDriver (USB-Driver)** of the authentication unit, then install **Data Administrator PlugIn for Biometric Authentication Unit AU-102**.

- ◎ Before setup, install **Data Administrator** in your computer. Use the latest version of **Data Administrator**. For details about installation, refer to the relevant **Data Administrator** manual.
- ◎ To check the version of your **Data Administrator**, select the [Help] menu in **Data Administrator**, and also select [Version Information] - [Plug-in version].
- ◎ The latest **BioDriver (USB-Driver)** can be downloaded from our Web site.

1 Turn the **Main Power Switch** of this machine off, and disconnect the authentication unit from this machine.

2 Install **BioDriver (USB-Driver)**.

→ Connect the authentication unit to the USB port of your computer.

NOTICE

When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

To use the USB hub, connect the self-power USB hub that supplies 500 mA or more.

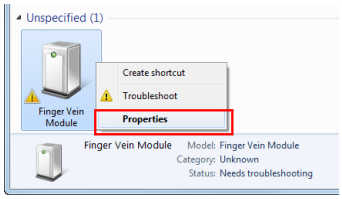
3 Open the [Devices and Printers] window.

→ In Windows 8.1, click [⊕]in the Start window, then click [Control Panel] - [Hardware and Sound] - [View devices and printers].

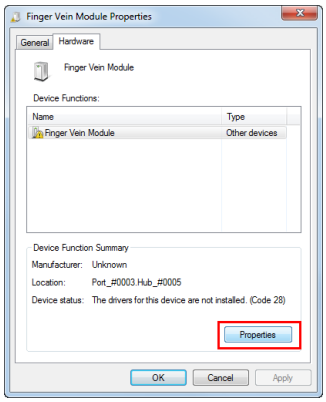
→ In Windows 8, right-click the Start window, then click [All apps] - [Control Panel] - [Hardware and Sound] - [View devices and printers].

→ In Windows 7, open the Start menu, then click [Devices and Printers]. If [Devices and Printers] is not displayed, select [Control Panel] - [Hardware and Sound], and click [View devices and printers].

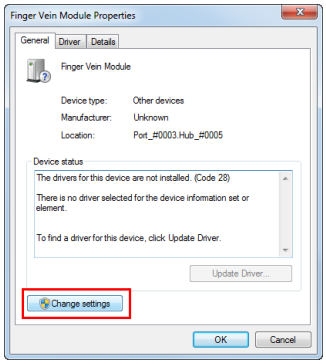
4 Right-click the device name or [Unknown Device] of the authentication unit displayed in the [Unspecified] category, then click [Properties].



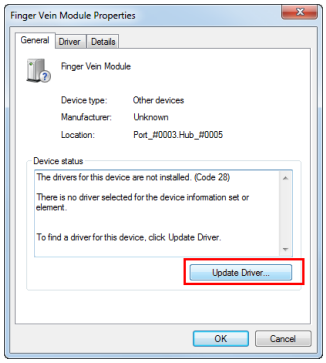
5 In the [Hardware] tab, click [Properties].



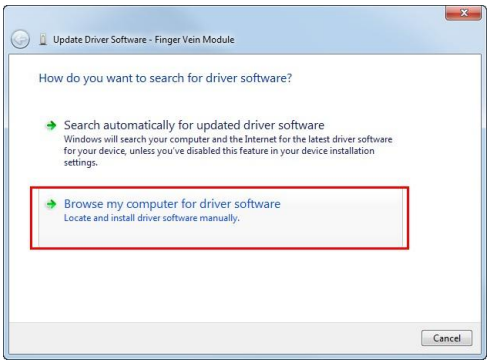
6 In the [General] tab, click [Change settings].



7 Click [Update Driver...].



8 In the screen in which to select how to search the driver software, click [Browse my computer for driver software].



9 Click [Browse...].

10 Select the BioDriver (USB-Driver) file in the computer, then click [OK].

11 Click [Next], and perform the procedure by following the on-screen instructions.

→ If the [Windows Security] dialog box for verifying the publisher appears, click [Install this driver software anyway].

12 When the installation is complete, click [Close].

Then, install **Data Administrator PlugIn for Biometric Authentication Unit AU-102**. Refer to page 6-12.

Installing BioDriver (USB-Driver) (Windows Vista)

To use **Data Administrator**, set up the operating environment after configuring authentication settings of this machine.

For setup, install the **BioDriver (USB-Driver)** of the authentication unit, then install **Data Administrator PlugIn for Biometric Authentication Unit AU-102**.

◎ Before setup, install **Data Administrator** in your computer. Use the latest version of **Data Administrator**. For details about installation, refer to the relevant **Data Administrator** manual.

◎ To check the version of your **Data Administrator**, select the [Help] menu in **Data Administrator**, and also select [Version Information] - [Plug-in version].

◎ The latest **BioDriver (USB-Driver)** can be downloaded from our Web site.

1 Turn the **Main Power Switch** of this machine off, and disconnect the authentication unit from this machine.

2 Install **BioDriver (USB-Driver)**.

→ Connect the authentication unit to the USB port of your computer.

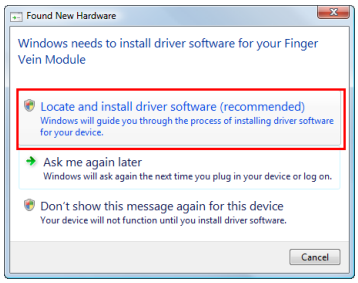
The [Found New Hardware] dialog box appears.

NOTICE

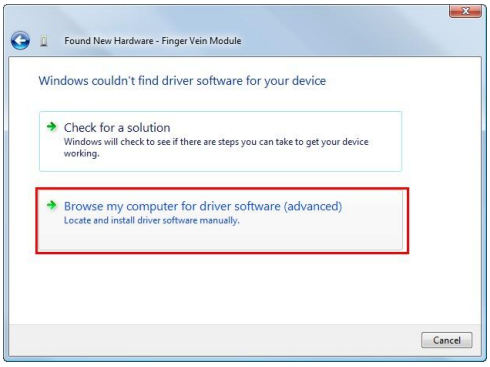
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

To use the USB hub, connect the self-power USB hub that supplies 500 mA or more.

3 Select [Locate and install driver software (recommended)].



4 Click [Browse my computer for driver software (advanced)].



5 Click [Browse...].

6 Select the BioDriver (USB-Driver) file in the computer, then click [OK].

7 Click [Next], and perform the procedure by following the on-screen instructions.

8 When the installation is complete, click [Close].

Then, install **Data Administrator PlugIn for Biometric Authentication Unit AU-102**. Refer to page 6-12.

Installing Data Administrator PlugIn for Biometric Authentication Unit AU-102

◎ The latest **Data Administrator PlugIn** can be downloaded from our Web site.

1 Click setup.exe of **Data Administrator PlugIn**.

2 When necessary, select the setup language, and click [OK].

3 Follow the on-screen instructions to proceed with the installation.

4 Click [Next].

5 Read the license agreement, select [I accept the terms in the license agreement], then click [Next].

6 Click [Install].

7 When the installation completes, click [Finish].

This completes the installation of **Data Administrator PlugIn for Biometric Authentication Unit AU-102**, which completes the setup.

6.5.3 Registering User Authentication Information

To register user authentication information with **Data Administrator**, connect the authentication unit to the USB port of the computer, and also connect the computer to this machine via network.

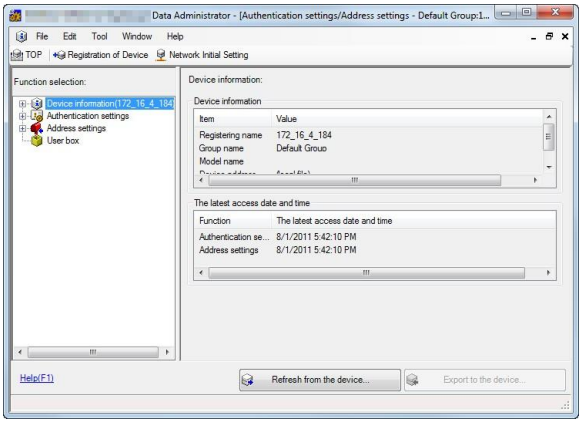
◎ To use **Data Administrator**, set up the operating environment in advance. For details about the setup procedure, refer to page 6-9.

1 Turn on the **Main Power Switch** of this machine.

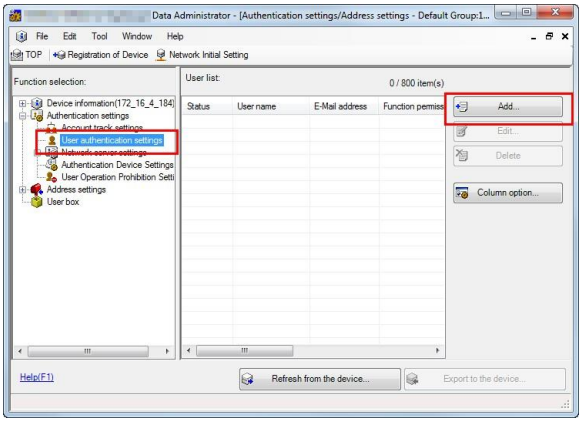
2 Start **Data Administrator**, and import device information of this machine.

→ Restart the procedure five or more seconds after connecting the authentication unit.

→ For details about how to import device information, refer to the relevant **Data Administrator** manual.

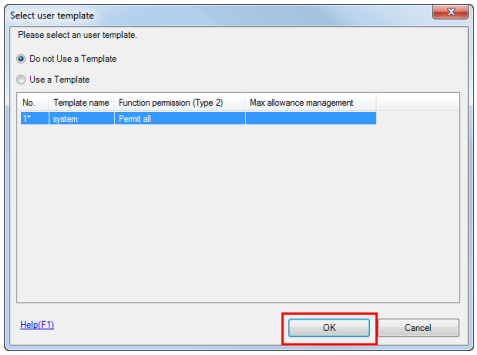


3 In [Function selection], select [Authentication settings] - [User authentication settings], and then click [Add].



4 Select a user template, and click [OK].

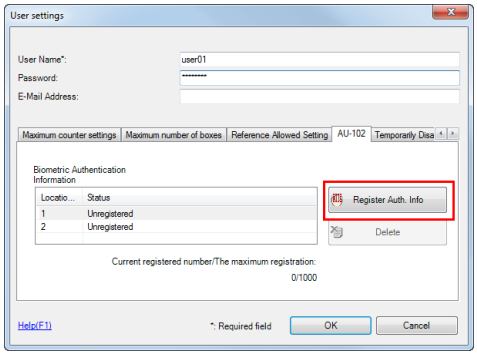
→ For details about templates, refer to the relevant **Data Administrator** manual.



The User Registration screen appears.

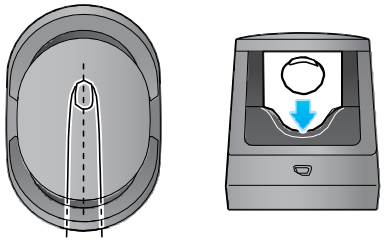
5 Enter the user name and password, select the [AU-102] tab, then click [Register Auth. Info].

→ Up to two authentication information items can be registered for each user. For [Location of registration1] and [Location of registration2], register separate fingers. You should register two authentication information items in case you injure your finger.



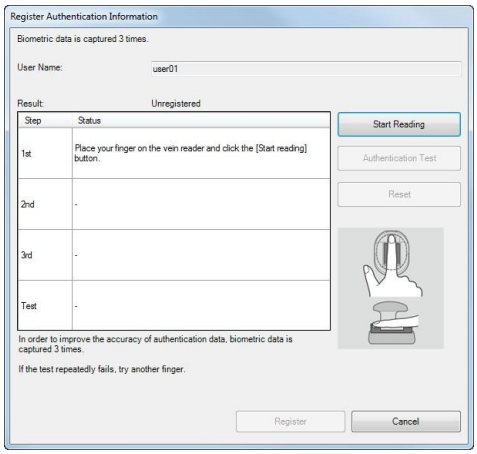
6 Place your finger on the authentication unit to scan the finger vein pattern.

→ Place your finger straight so that your finger cushion lightly touches the hollow and protuberance part of the scanning section.



→ Scan a finger vein pattern three times. Place the same finger on the authentication unit again after scanning just once, and press [Start Reading].

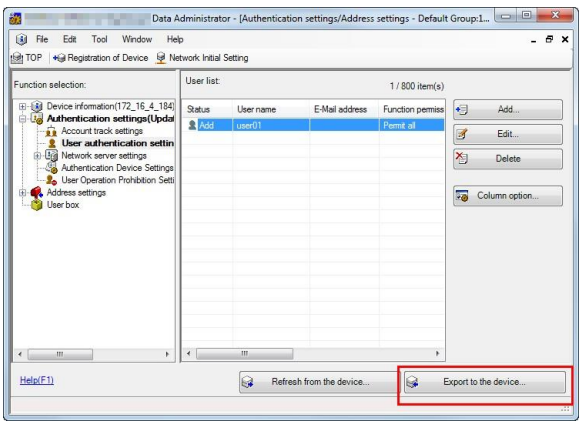
→ After scanning the finger vein patterns, place the same finger, then click [Authentication Test]. If the authentication test has succeeded, click [Register]. If the authentication test has failed, click [Reset] to repeat the scanning process.



7 Click [OK], and register authentication information of the next user.

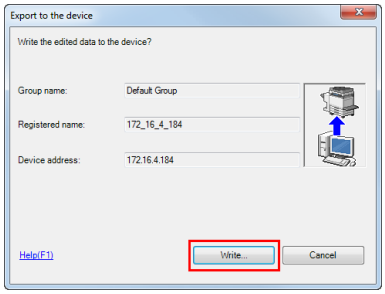
8 After the registration of authentication information has been completed for all users, click [Export to the device].

→ When necessary, select a user name, and click [Edit] to change registered information.



9 Click [Write].

→ **Data Administrator** supports the batch copy function. When necessary, you can collectively write the registered authentication information to multiple devices.

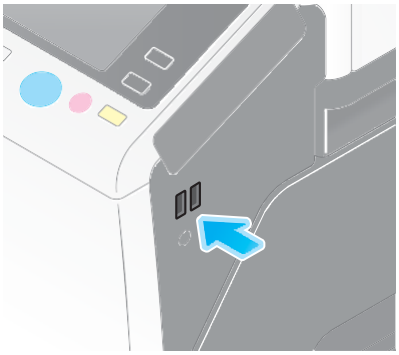


10 When writing to this machine has finished, click [OK].

11 Disconnect the authentication unit from the USB port of the computer.

NOTICE
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

12 Connect the authentication unit to the **USB Port** of this machine.



NOTICE
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

13 Restart this machine.

NOTICE
*When restarting this machine, turn the **Main Power Switch** off and on again after 10 or more seconds have passed. Not doing so may result in an operation failure.*

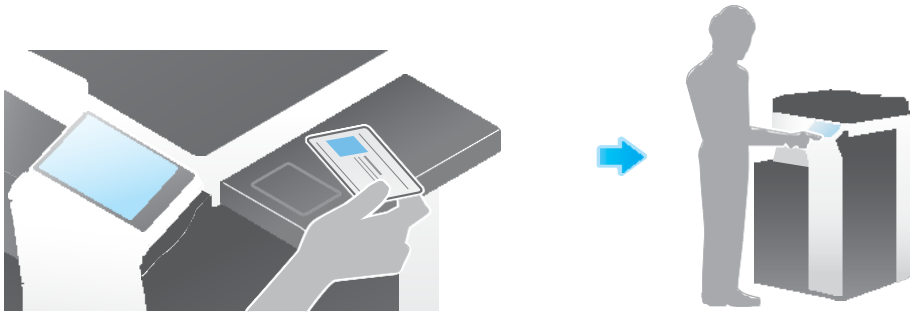
Using the Authentication Unit (IC Card Type)

7 Using the Authentication Unit (IC Card Type)

7.1 Authentication Unit (IC card type)

The **Authentication Unit** (IC card type) is an "IC card authentication" system that reads the IC card to perform personal authentication. If you register a compatible noncontact IC card such as an employee ID card, you can use this machine synchronously with functions such as the user entering-leaving management to integrate the authentication system.

If this machine provides the user authentication, you can log in to this machine or execute a print job using the IC card authentication function.



Tips

- To install IC card authentication, the optional **Authentication Unit** (IC card type) is required. Also, to install the **Authentication Unit** (IC card type), the **Working Table** or **Mount Kit MK-735** and **Local Interface Kit** are required.

⊙ Reference

For details on the user authentication, refer to "User's Guide[Web Management Tool]/[Restricting Users from Using this Device]".

7.2 Status of authentication unit

The status of the authentication unit is indicated by status indicator LEDs.

Status indicator LEDs	Status
Light up (Yellow green)	The unit is running normally.
Flash (Orange)	USB communications are not available.
Light up (Red)	Out of order

7.3 Operations Required to Use This Function (for the Administrator)

7.3.1 Configuring Authentication Settings of This Machine

This section explains an example of setting General Settings to [ON (MFP)].

⊙ Reference

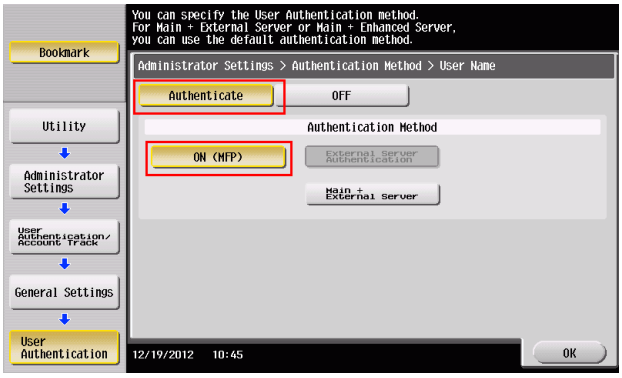
*You can also configure settings so that authentication is performed in the LDAP server using the card ID registered in the authentication card (LDAP-IC Card Authentication). How to configure the setting is explained using **Web Connection**. For details, refer to "User's Guide[Web Management Tool]/[Restricting Users from Using this Device]".*

You can use a combination of user authentication based on IC-card information and account track to manage users for each account track. Combining account track allows you to associate users with account tracks for management or individually manage them. For details on account tracks, refer to "User's Guide[Web Management Tool]/[Restricting Users from Using this Device]".

First, configure the authentication function of this machine (ON (MFP)).

1 Tap [Utility] - [Administrator Settings] - [User Authentication/Account Track] - [General Settings] - [User Authentication].

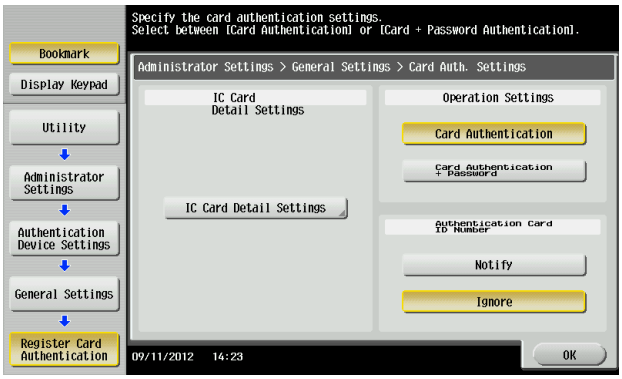
2 Set [Authentication Method] to [ON (MFP)], then tap [OK].



3 Tap [OK].

4 Select [Yes], then tap [OK].

5 Tap [Authentication Device Settings] - [General Settings] - [Card Authentication], and configure the following setting.



Settings	Description
[IC Card Detail Settings]	Select the type of the required IC card. • To use the Felica card, select [Felica], [SSFC], [FCF], or [FCF (Campus)]. When [SSFC] is selected, detailed information such as the company code or company identification code is registered. • To use the Type A card, select [Type A]. • To use the Felica and Type A cards together, select [Felica+TypeA], [SSFC+TypeA], [FCF+Type A], or [FCF(Campus)+Type A]. When [SSFC+TypeA] is selected, detailed information such as the company code or company identification code is registered.
[IC Card Type]	The specified IC card type is displayed depending on the type of your loadable driver.
[Operation Settings]	Select how to log in to this machine. • [Card Authentication]: Place the IC card on the authentication unit to log in. • [Card Authentication + Password]: Place the IC card on the authentication unit, and enter the password to log in. [Card Authentication] is specified by default.
[Authentication Card ID Number]	Select whether to notify the counter, which collects the use status of this machine, of the authentication card ID. [Ignore] is specified by default.

6 Tap [OK].

7 If desired, tap [Logoff Settings] to configure automatic logout settings.

→ Select whether to automatically log out when original scanning has been completed (default: [Do not log off]).

8 Tap [OK] to exit the authentication settings of this machine.

7.3.2 Registering User Authentication Information

After the authentication function of this machine (ON (MFP)) has been configured, register user authentication information.

The following two methods are available to register information.

- Connect the authentication unit to this machine, and use the **Touch Panel** to register information.
- Connect the authentication unit to a computer, and use **Data Administrator** through a computer to register information.

This section explains how to connect the authentication unit to this machine and use the **Touch Panel** to register information. For how to use **Data Administrator** for registration, refer to page 7-12.

NOTICE

User information is stored in the hard disk of this machine. If any changes are made to the general settings of this machine or to the way the hard disk is formatted, the registered user information is erased.

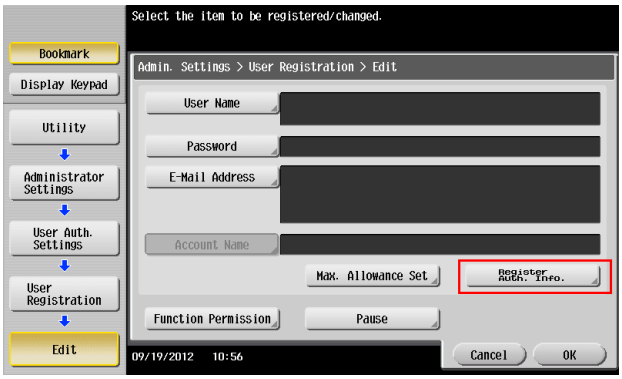
◎ Before starting this procedure, connect the authentication unit to this machine.

1 Tap [Utility] - [Administrator Settings] - [User Authentication/Account Track] - [User Authentication Settings] - [User Registration].

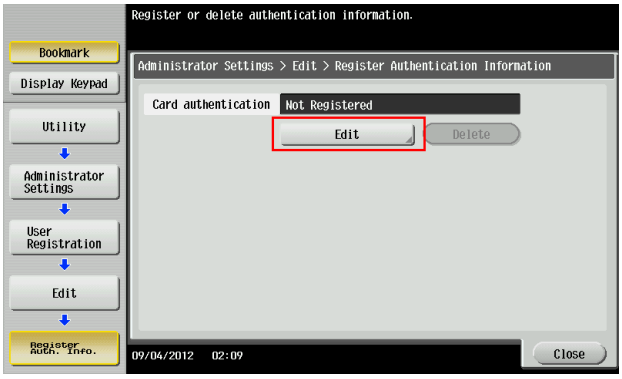
2 Select a desired registration number, then tap [Edit].

3 Enter the user name and password, and tap [Register Auth. Info.].

→ To restrict functions applicable to users, select Function Permission.



4 Tap [Edit].



5 Hold or place the IC card over or on the authentication unit, then tap [OK].

NOTICE

During scanning, do not leave the IC card close within 1-9/16 inches (40 mm) from the card reader.

6 When [Registration complete.] appears, tap [Close] to finish the user information registration.

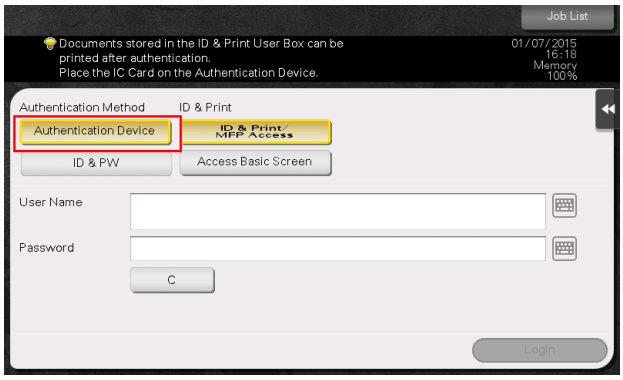
7.4 Logging in to This Machine

The login methods vary depending on the authentication settings of this machine.

- In [Card Authentication], you can login by simply placing the IC card on the authentication unit.
- For [Card Authentication + Password], you can login by placing the IC card on the authentication unit and entering the password.

◎ If a new user attempts to log in to this machine while another user is already logging in, the latter login user is logged out automatically, and the new user is able to log in to this machine. When a login user is logged out automatically, the logout confirmation screen appears.

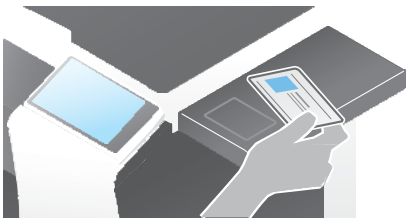
1 Check that [Authentication Device] is selected in [Authentication Method].



2 Place the IC card on the authentication unit.

→ For [Card Authentication + Password], enter the password, and tap [Login].

Authentication starts. If authentication succeeds, you can log in to this machine.



Tips

- If authentication fails frequently, IC card information may not be registered properly. Register IC card information again.

Related setting (for the administrator)

- Select whether to display the logout confirmation screen (default: [ON]). For details, refer to "User's Guide[Descriptions of Functions/Utility Keys]/[Utility]".

7.5 Using Data Administrator (for the Administrator)

7.5.1 Data Administrator

Data Administrator is a management tool to edit or register authentication information or address information of the target device through a computer on the network.

Using this tool allows you to import authentication information or address information from a device and rewrite it to the device after editing.

7.5.2 Setting up the Operating Environment

Installing IC CardDriver (USB-Driver) (Windows 7/8/8.1)

To use **Data Administrator**, set up the operating environment after configuring authentication settings of this machine.

For setup, install the **IC CardDriver (USB-Driver)** of the authentication unit, then install **Data Administrator PlugIn for IC Card Authentication Unit AU-201S**.

- Before setup, install **Data Administrator** in your computer. Use the latest version of **Data Administrator**. For details about installation, refer to the relevant **Data Administrator** manual.
- To check the version of your **Data Administrator**, select the [Help] menu in **Data Administrator**, and also select [Version Information] - [Plug-in version].
- The latest **IC CardDriver (USB-Driver)** can be downloaded from our Web site.

1. Turn the **Main Power Switch** of this machine off, and disconnect the authentication unit from this machine.

2. Install **IC CardDriver (USB-Driver)**.

   → Connect the authentication unit to the USB port of your computer.

   NOTICE

   When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

   To use the USB hub, connect the self-power USB hub that supplies 500 mA or more.

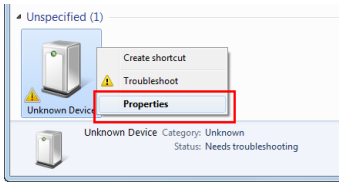
3. Open the [Devices and Printers] window.

   → In Windows 8.1, click [⊕]in the Start window, then click [Control Panel] - [Hardware and Sound] - [View devices and printers].

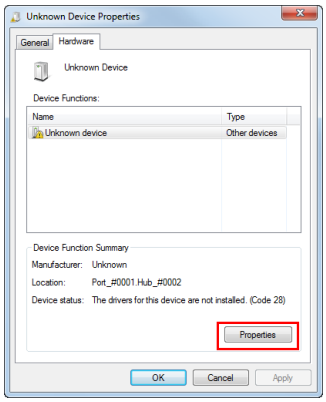
   → In Windows 8, right-click the Start window, then click [All apps] - [Control Panel] - [Hardware and Sound] - [View devices and printers].

   → In Windows 7, open the Start menu, then click [Devices and Printers]. If [Devices and Printers] is not displayed, select [Control Panel] - [Hardware and Sound], and click [View devices and printers].

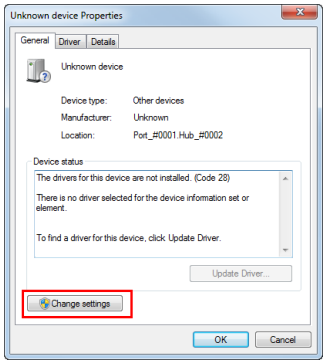
4. Right-click the device name or [Unknown Device] of the authentication unit displayed in the [Unspecified] category, then click [Properties].



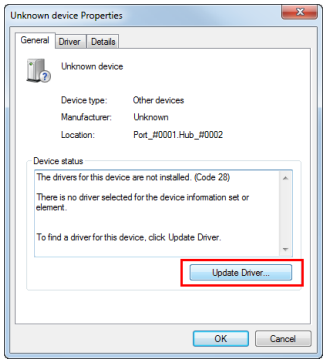
5 In the [Hardware] tab, click [Properties].



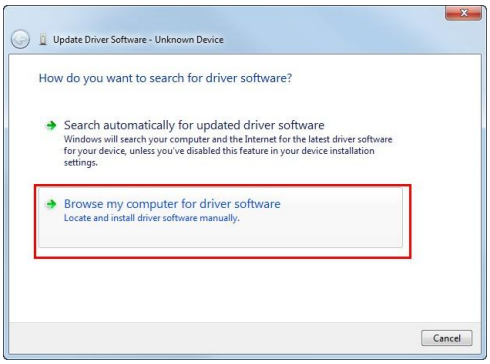
6 In the [General] tab, click [Change settings].



7 Click [Update Driver...].



8 In the screen in which to select how to search the driver software, click [Browse my computer for driver software].



9 Click [Browse...].

10 Select the IC CardDriver (USB-Driver) file in the computer, then click [OK].

11 Click [Next], and perform the procedure by following the on-screen instructions.

→ If the [Windows Security] dialog box for verifying the publisher appears, click [Install this driver software anyway].

12 When the installation is complete, click [Close].

Then, install **Data Administrator PlugIn for IC Card Authentication Unit AU-201S**. Refer to page 7-11.

Installing IC CardDriver (USB-Driver) (Windows Vista)

To use **Data Administrator**, set up the operating environment after configuring authentication settings of this machine.

For setup, install the **IC CardDriver (USB-Driver)** of the authentication unit, then install **Data Administrator PlugIn for IC Card Authentication Unit AU-201S**.

◎ Before setup, install **Data Administrator** in your computer. Use the latest version of **Data Administrator**. For details about installation, refer to the relevant **Data Administrator** manual.

◎ To check the version of your **Data Administrator**, select the [Help] menu in **Data Administrator**, and also select [Version Information] - [Plug-in version].

◎ The latest **IC CardDriver (USB-Driver)** can be downloaded from our Web site.

1 Turn the **Main Power Switch** of this machine off, and disconnect the authentication unit from this machine.

2 Install **IC CardDriver (USB-Driver)**.

→ Connect the authentication unit to the USB port of your computer.

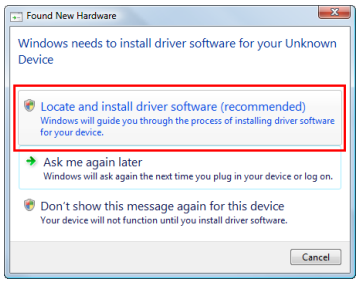
The [Found New Hardware] dialog box appears.

NOTICE

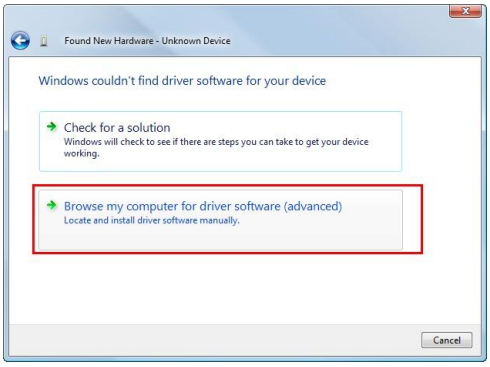
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

To use the USB hub, connect the self-power USB hub that supplies 500 mA or more.

3 Select [Locate and install driver software (recommended)].



4 Click [Browse my computer for driver software (advanced)].



5 Click [Browse...].

6 Select the IC CardDriver (USB-Driver) file in the computer, then click [OK].

7 Click [Next], and perform the procedure by following the on-screen instructions.

→ If the [Windows Security] dialog box for verifying the publisher appears, click [Install this driver software anyway].

8 When the installation is complete, click [Close].

Then, install **Data Administrator PlugIn for IC Card Authentication Unit AU-201S**. Refer to page 7-11.

Installing Data Administrator PlugIn for IC Card Authentication Unit AU-201S

◎ The latest **Data Administrator PlugIn** can be downloaded from our Web site.

1 Click setup.exe of **Data Administrator PlugIn**.

2 When necessary, select the setup language, and click [OK].

3 Follow the on-screen instructions to proceed with the installation.

4 Click [Next].

5 Read the license agreement, select [I accept the terms in the license agreement], then click [Next].

6 Click [Install].

7 When the installation is complete, click [Finish].

This completes the installation of **Data Administrator PlugIn for IC Card Authentication Unit AU-201S**, which completes the setup.

7.5.3 Registering user Authentication Information

To register user authentication information with **Data Administrator**, connect the authentication unit to the USB port of the computer, and also connect the computer to this machine via network.

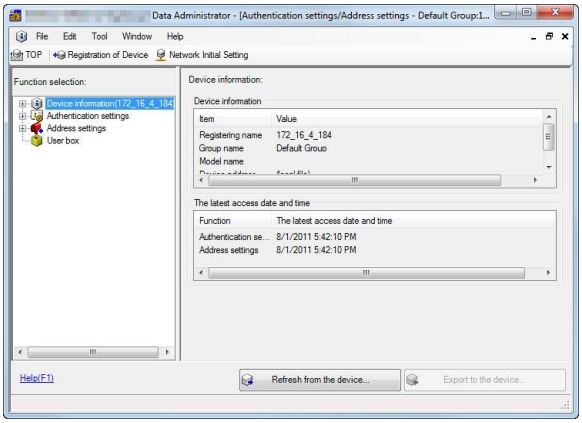
◎ To use **Data Administrator**, set up the operating environment in advance. For details about the setup procedure, refer to page 7-8.

1 Turn on the **Main Power Switch** of this machine.

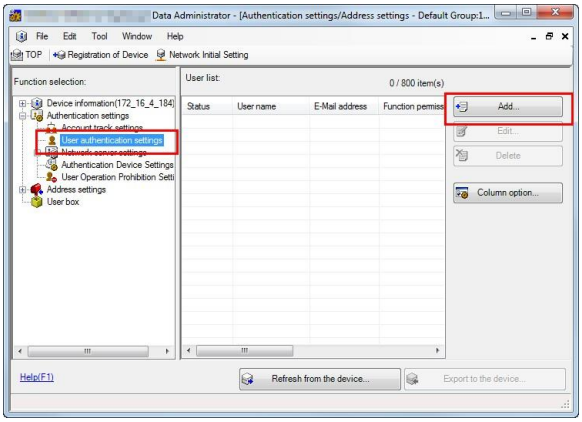
2 Start **Data Administrator**, and import device information of this machine.

→ Restart the procedure five or more seconds after connecting the authentication unit.

→ For details about how to import device information, refer to the relevant **Data Administrator** manual.

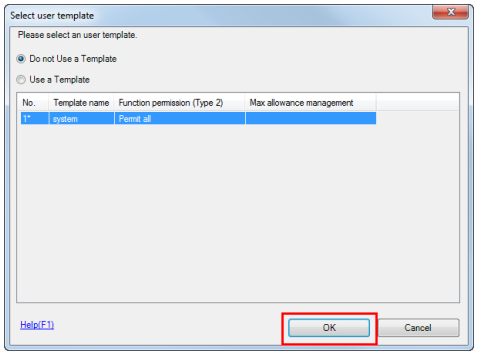


3 In [Function selection], select [Authentication settings] - [User authentication settings], and then click [Add].



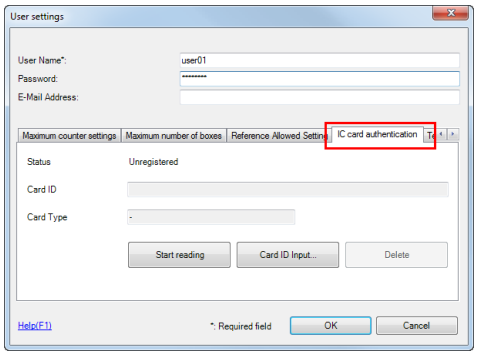
4 Select a user template, and click [OK].

→ For details about templates, refer to the relevant **Data Administrator** manual.



The User Registration screen appears.

5 Enter the user name and password, and select the [IC card authentication] tab.



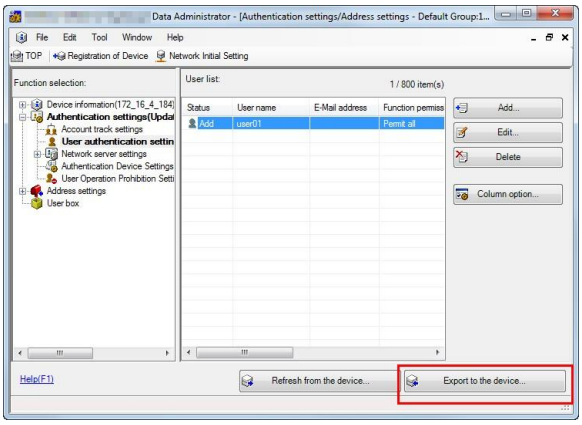
6 Place the IC card on the authentication unit, then click [Start reading].

→ If necessary, click [Card ID Input] to register the card ID.

7 Click [OK], and register authentication information of the next user.

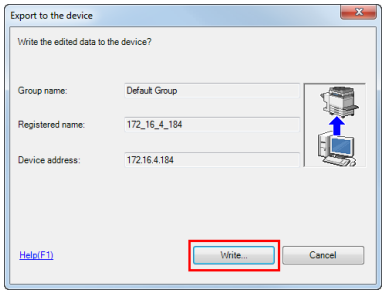
8 After the registration of authentication information has been completed for all users, click [Export to the device].

→ When necessary, select a user name, and click [Edit] to change registered information.



9 Click [Write].

→ **Data Administrator** supports the batch copy function. When necessary, you can collectively write the registered authentication information to multiple devices.

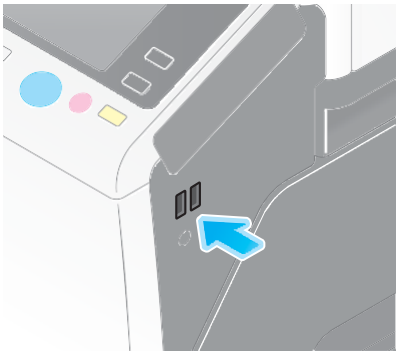


10 When writing to this machine has finished, click [OK].

11 Disconnect the authentication unit from the USB port of the computer.

NOTICE
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

12 Connect the authentication unit to the **USB Port** of this machine.



NOTICE
When connecting or disconnecting the USB cable, hold the plug. Otherwise, the machine may be damaged or a failure may occur.

13 Restart this machine.

NOTICE
*When restarting this machine, turn the **Main Power Switch** off and on again after 10 or more seconds have passed. Not doing so may result in an operation failure.*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