Printer Unit (NIC) Type D1

Operating Instructions

Before Use 1

Printer Driver Installation 2

Basic Setup 3

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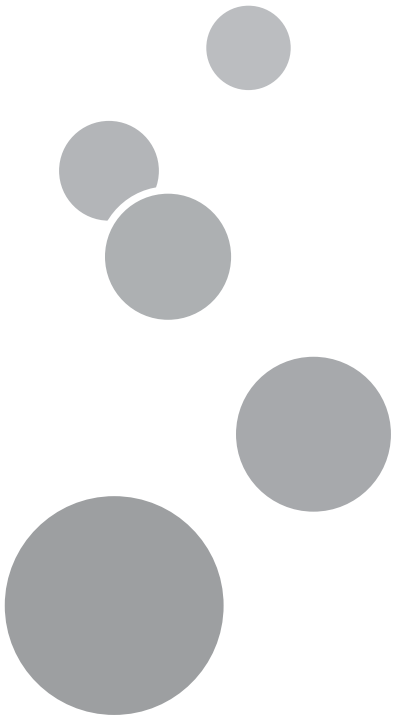

Read this manual carefully before you use this product and keep it handy for future reference.

Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

Legal Prohibition

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PLEASE NOTE
Contents of this manual are subject to change without prior notice.
Some illustrations in this manual might be slightly different from the machine.
Certain options might not be available in some countries. For details, please contact your local dealer.

Pictorial Symbols and Other Notations Used in This Manual

In this manual, important items are described using symbols. Please be sure to read the descriptions marked with the followings. Each symbol and notation means as below.

IMPORTANT : Introduces instructions for correct operation of the device.
If these instructions are ignored, the device may not be able to operate at optimum performance or may break down.

REFERENCE : Introduces information that is useful for operation and maintenance of the device, or information about the device's performance, etc.

: Indicates that the description of the operating sequence is continued on the next page.

("xxxx"→ see p. xx) : Indicates the page number and item containing related information.

Installation

The following chapters describe the installation procedure. Connect the device to the network as appropriate to your environment. Your printer can be used as a network printer. Refer to the related chapters to proceed the installation.

Basic Setting (recommended)

Connecting	Connecting to the printer and network.	Chap.1
Setup 1	Installing the printer driver.	Chap.2
Setup 2	Easy setup using Quick Setup	Chap.3
	Installing the FS-Print	
	Adding a printer port	
Setup 3	Installing the FS-Monitor.	Chap.4

Setup Utility

Use the setup utility below as appropriate to your environment.

Setup tool	Quick Setup	Initial Setup of the device (recommended).	Chap.3
	Advanced Setup	Detailed Setup, setting change and managing.	Chap.6
Tool Installation	Printer driver	Installing the printer driver.	Chap.2
	FS-Print	Installing the print client software.	Chap.3
	FS-Monitor	Installation the pop-up status monitor.	Chap.4

Installation and Setup (for administrators)

The following chapters describe installation and setup procedure.

Connecting	Connecting to the printer and network.	Chap.1
Setup 1	Setting the printer.	Chap.5
Setup 2	Installing the FS-Monitor.	Chap.4

Setup (for clients)

The following chapters describe installation and setup procedure.

Setup 1	Installing the printer driver.	Chap.2
Setup 2	Setting the printer.	Chap.5
Setup 3	Installing the FS-Monitor.	Chap.4

Advanced Setup/Setting Change/Managing

The following chapter describes advanced setup/setting change/AdminManager.

Functions	Setting up with AdminManager	Chap.6
	Setting up with Web browser.	

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Chapter 1

Before Use

This chapter describes system requirements, overview of this device and connecting procedures.

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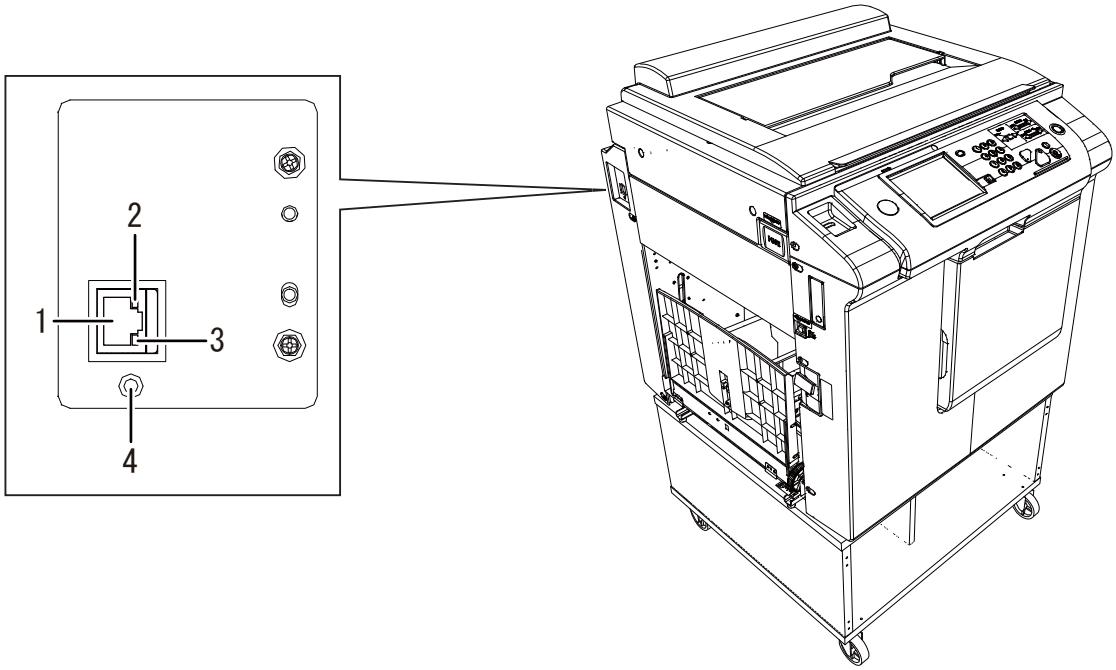
Printer Unit (NIC) Type D1

Part Names and Their Functions



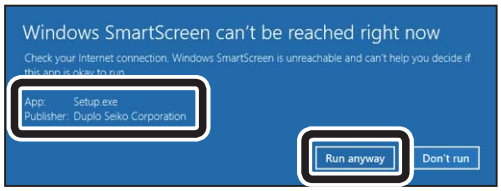
No.	NAME	FUNCTIONS
1	Network port	Accepts the network cable.(10BASE-T/100BASE-TX/1000BASE-T auto recognition) *category 5 or above for 100BASE-TX. category 5e or above for 1000BASE-T.
2	POWER LED	Lights up when the power is turned on. (yellow)
3	LINK LED	Indicates transmission status of network port. During transmission 10BASE-T: Lights up. (orange) / 100BASE-TX: Lights up. (orange) / 1000BASE-T: Lights up. (green)
4	Reset button	Resets the device to factory default.

Setup Software

The following describes the setup software, which contains setup tools, general utility and the manual. This can be used in Windows.

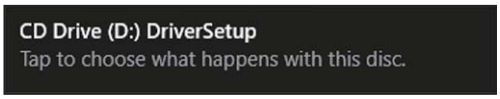
IMPORTANT

- If you are using Windows 8 or later version: when you run the installer that has been downloaded from the Website, a Windows SmartScreen message may appear. When you obtain the installer from a reliable supplier, confirm [App:] and [Publisher:], and then click [Run anyway].



1 Turn the computer ON to start the Windows.

2 Insert the CD-ROM that came with this product into your computer's CD-ROM drive.
[Tap to choose what happens with this disc.] appears in the upper right part of the screen. Click the message.



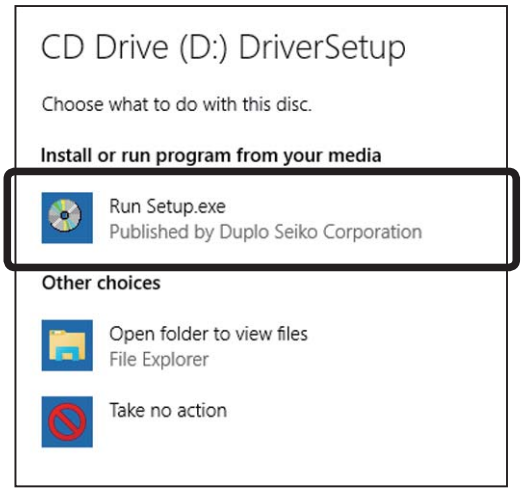
REFERENCE

- If you are using Windows 7 or earlier version, this message screen does not appear. Go to the next step.
- This message will disappear automatically after a certain period of time. In this case, open the drive where the CD-ROM is located from [Computer], then execute [Setup.exe].

3 Click [Setup.exe].

REFERENCE

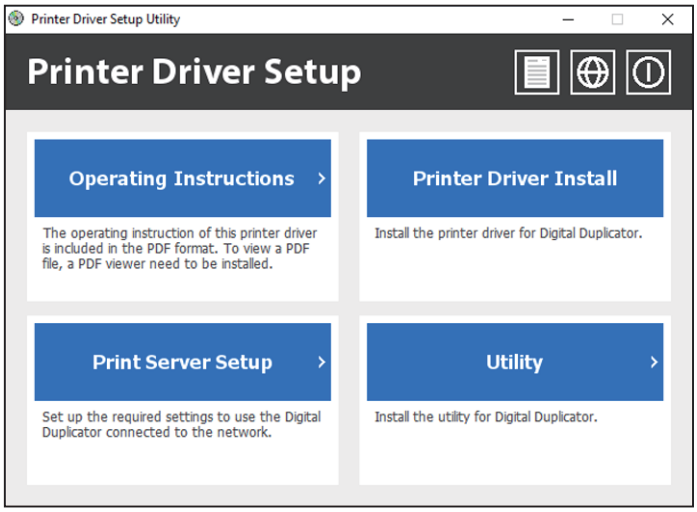
- If the [AutoPlay] screen does not appear, open the drive where the CD-ROM is located from [Computer], then execute [Setup.exe].



4 The main menu screen appears.

Main Menu

The following is the first screen. Select setup tools contained in this disk from this screen.



- **Operating Instructions**
  Open the manual in PDF format.

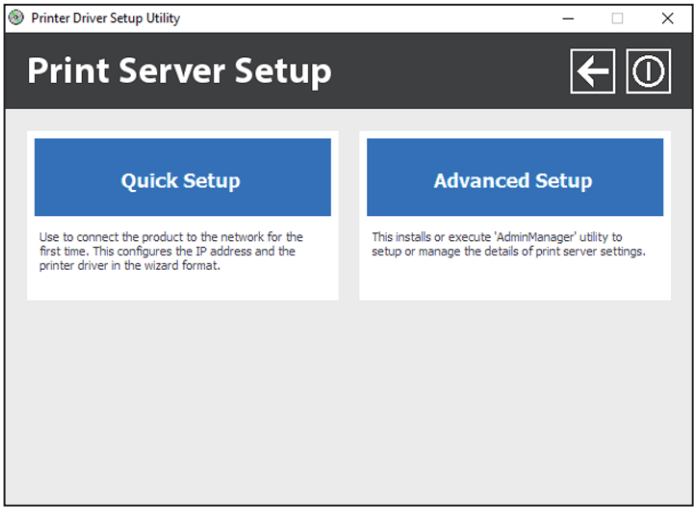
- **Printer Driver Install**
  Install the printer driver.

- **Print Server Setup**
  Install setup tools (quick setup, advanced setup) and general client software (FS-Print).

- **Utility**
  Install the software (FS-Print, FS-Monitor).

Print Server Setup

Select [Print Server Setup] in the menu, the following screen appears. Select the desired setup.



- **Quick Setup (recommended for the initial installation)**
  The wizard helps you for initial installation. You can also install FS-Print after the initial installation.

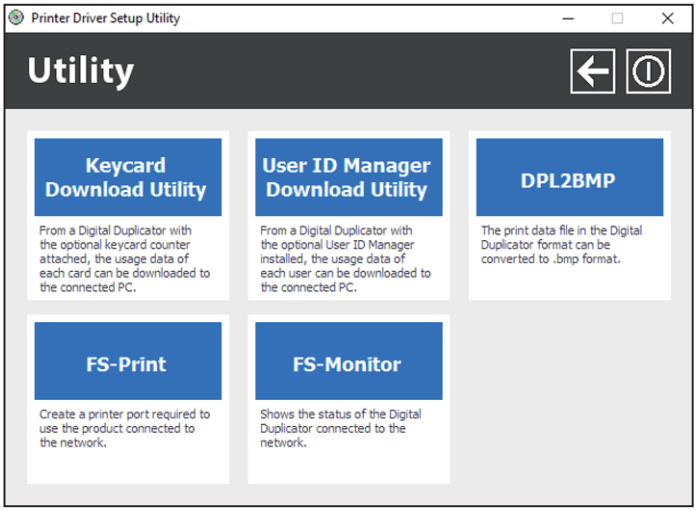
- **Advanced Setup**
  You can run or install [AdminManager] which is used for advanced setup and controlling this device.

Utility

Select to install software separately. The screen below appears by selecting [Software Installation] in the menu.

REFERENCE

The CD-ROM that came with this product is common Setup CD of the Digital Duplicator option. This section describes essential software only in this product.



- **FS-Print Install**
  Install FS-Print (print client software).
  The supplied FS-Print is required to print directly from Windows via TCP/IP. LPR (for Digital Duplicators) is included.

- **FS-Monitor Install**
  Install the pop-up status monitor "FS-Monitor".
  The FS-Monitor shows the printer status in real time on the PC screen. It resides on the desktop.

Connecting Procedure

Items to ready

- Ethernet hub
- Network Cable

IMPORTANT

- The device requires the Ethernet hub and the network cable (category 5 or above), which support 100BASE-TX.
- The device requires the Ethernet hub and the network cable (category 5e or above), which support 1000BASE-T.

Connecting the Cable

1. Turn OFF the Digital Duplicator.
2. Connect the cable to the port (10BASE-T/100BASE-TX) on the Digital Duplicator.
3. Connect the other end to the Ethernet hub (HUB).
4. After turn ON the Digtal Duplicator, then check if it starts properly.

Resetting to Default

1. Turn on the Printer Unit (NIC) Type D1 while holding down the reset button.

2. Keep holding down the reset button. initialization to factory default will start.

3. When initialization has been completed, the LINK LED flashes in green.
   Release the reset button.

Chapter 2

Printer Driver Installation

This chapter describes how to install the printer driver to computers.

Printer Driver Installation 10

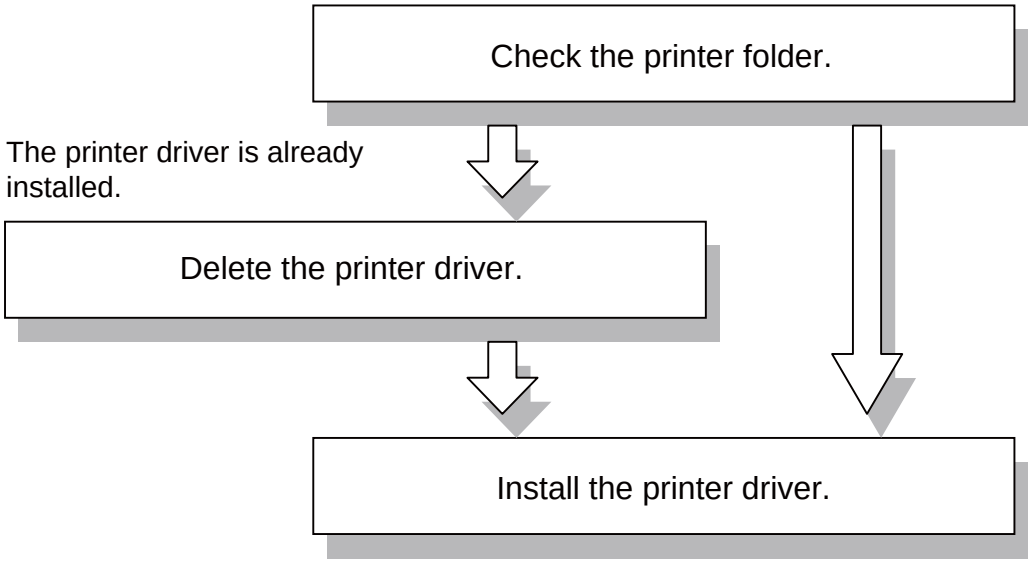
Printer Driver Installation

IMPORTANT

- Delete the printer driver for the Digital Duplicator if installed.(“Software Uninstallation” → see p.85)
- Administrator rights are required to sign in for installation, deleting and setting change of the printer driver.
- If operating system allows multiple users on one computer, make sure that no other user but you is signed in.

REFERENCE

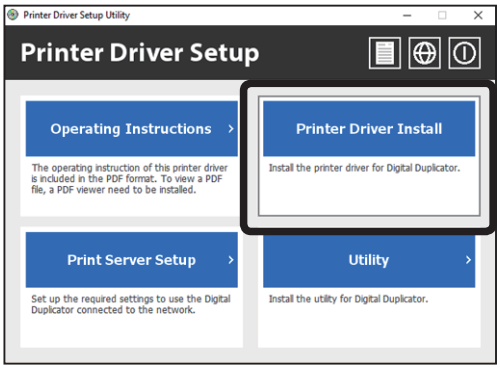
- If you install the printer driver using this procedure, bidirectional support with the Digital Duplicator printers is unavailable.



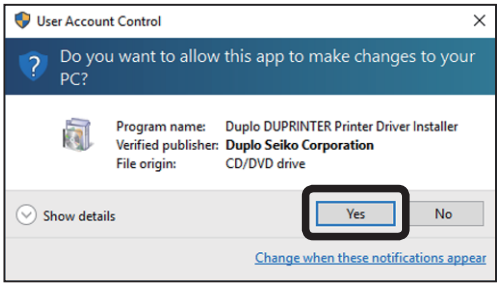
IMPORTANT

- The following steps use Windows 10 screenshots. If you are using another Windows operatin system, the screenshots vary.

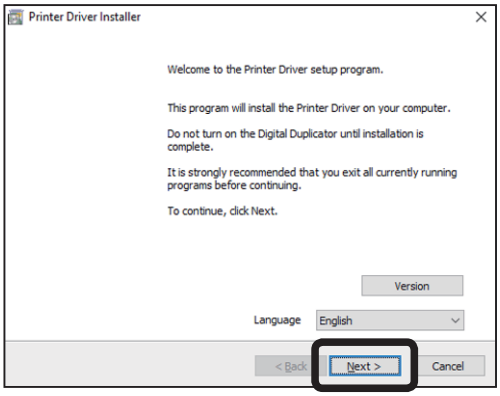
1 Click [Printer Driver Install] in the main menu].
(“Setup Software” → see p.3)



2 User account control message may appear while installation is in progress. Simply click [Yes] to proceed with the installation.

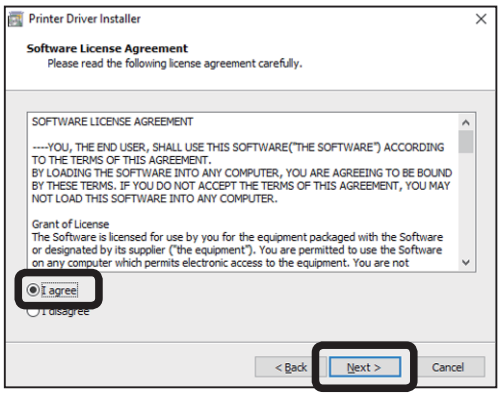


3 The installer starts.
Click [Next].

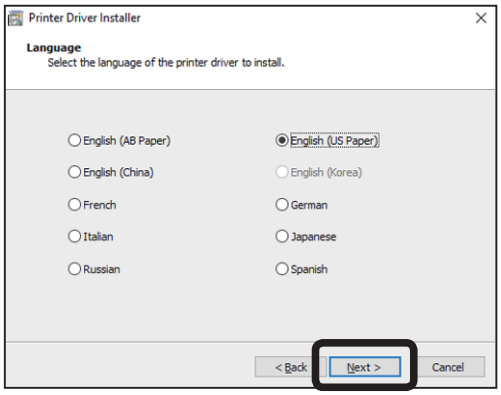


Continue Page....

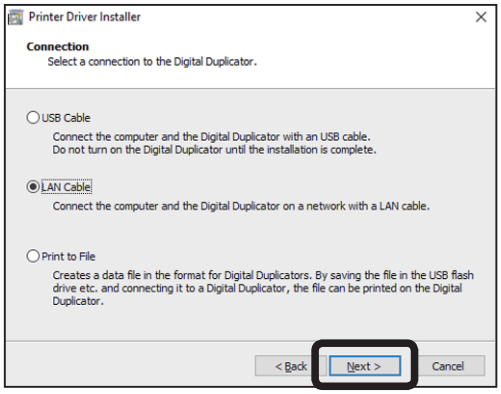
4 Read the SOFTWARE LICENSE AGREEMENT.
Select [I agree] and click [Next].



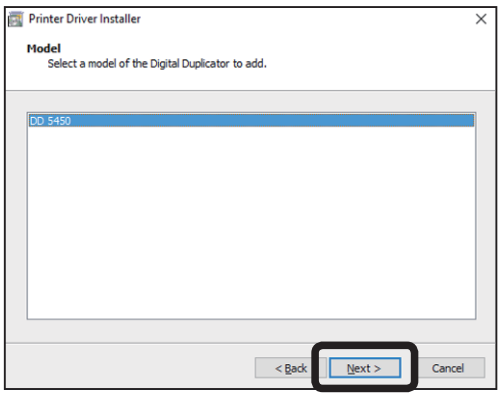
5 Select the language to be used, and click the [Next] button.



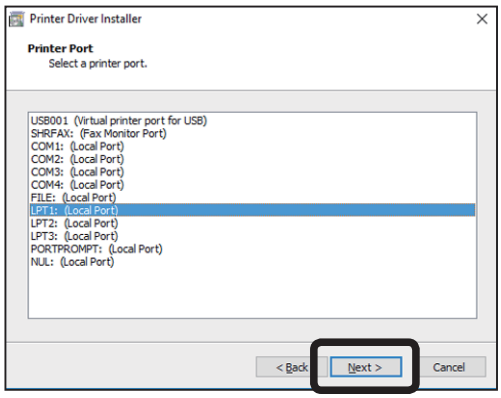
6 Select [LAN Cable].
Click [Next].



7 Select your printer.
Click [Next].



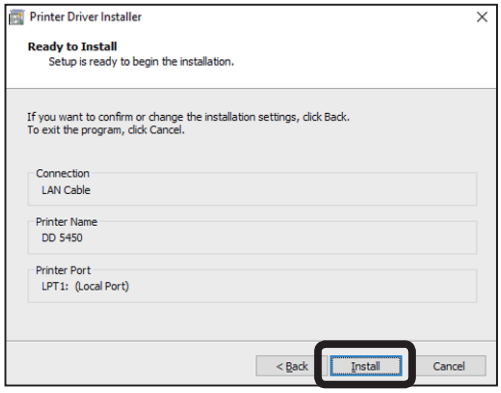
8 Select the port to be connected to the Digital Duplicator. The port for this product will be created later.
For now, select [LPT1:(Local Port)] and click [Next].



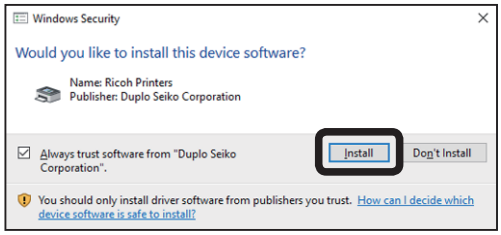
REFERENCE

If you are using this product and reinstall the printer driver for upgrade, the setup of this product and creating network port have been completed. In this case, select the same port that you are using.

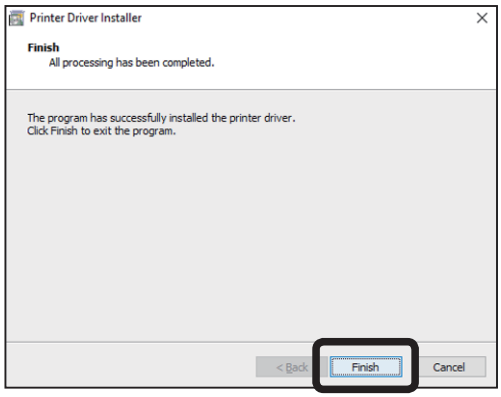
9 Confirm the settings, and then click the [Install] button.



10 If warning messages appear while installation is in progress, simply click [Install] on the screen to proceed with the installation.



11 Installation is complete.
Click [Finish].



MEMO

Chapter 3

Basic Setup

This chapter describes the procedures for setting up using FS-Print and for printing process.

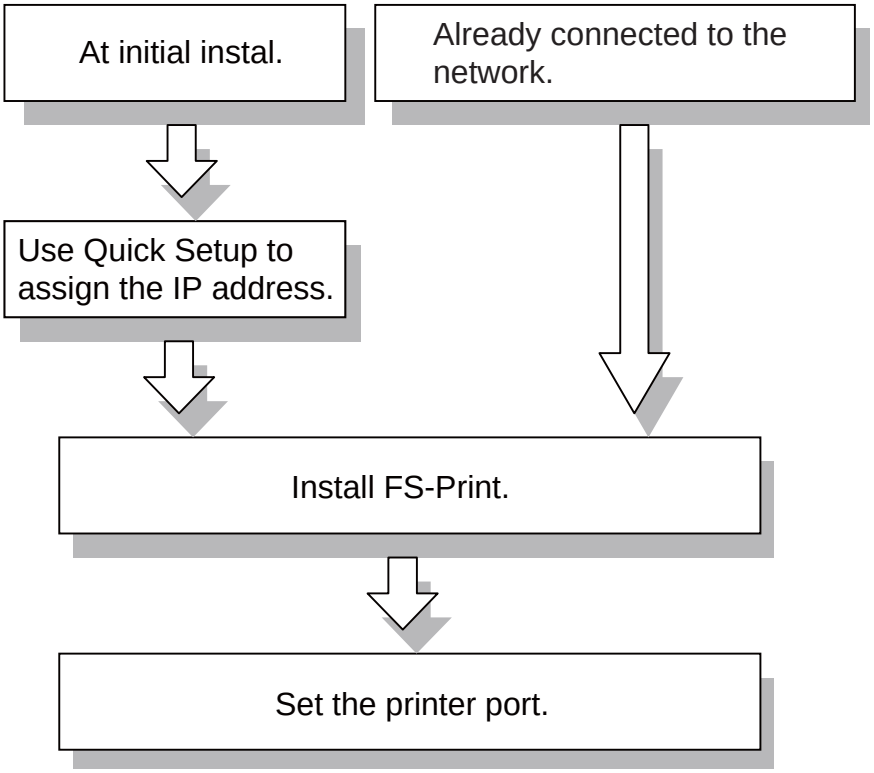
Basic Setup Steps ····· 16
Easy Setup Using Quick Setup ····· 17
Installing FS-Print ····· 20
Adding a Printer Port ····· 23
Configuring a Printer Driver ····· 26

Basic Setup Steps

Follow the procedure below to print with TCP/IP.

REFERENCE

- Install the printer driver into your computer prior to setting up the device.
- Administrator rights are required to sign in to the computer.
- If operating system allows multiple users on one computer, make sure that no other user but you is signed in.

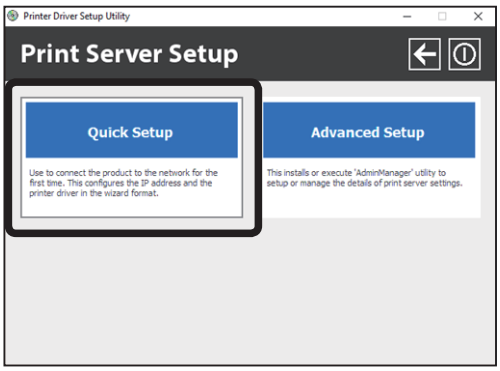


Easy Setup Using Quick Setup

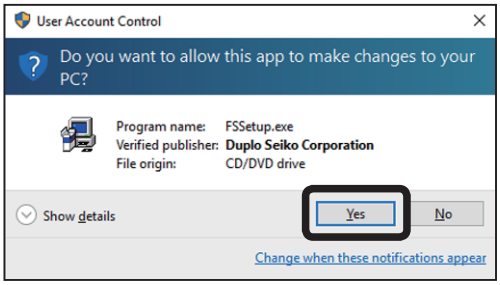
You can easily setup the IP address of this product using Quick Setup. Select [Quick Setup] at the initial installation. If you have already completed the IP address setting, go on to the next step.
If you need advanced setup, use AdminManager. (“Setting Functions” → p.63)

The following steps use Windows 10 screenshots, as an example.

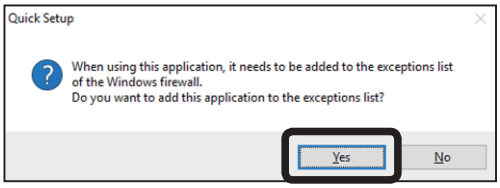
1 Click [Print Server Setup] from the Main Menu (“Setup Software” → p.3) and click [Quick Setup].



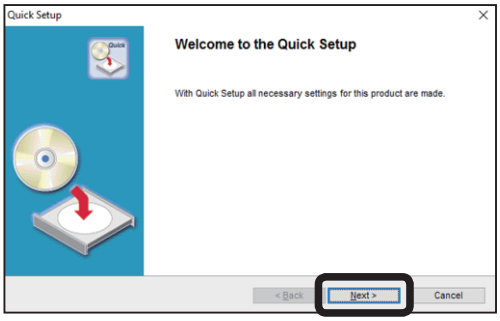
2 User account control message may appear while installation is in progress. Simply click [Yes] to proceed with the installation.



3 A promotion screen to add the application to the exceptions list of Windows firewall appears. Click [Yes] to register on the exception list.

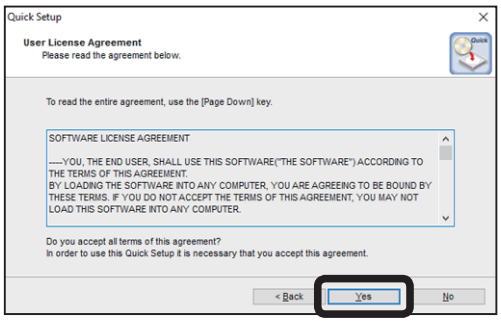


4 Click [Next].



Continue Page....

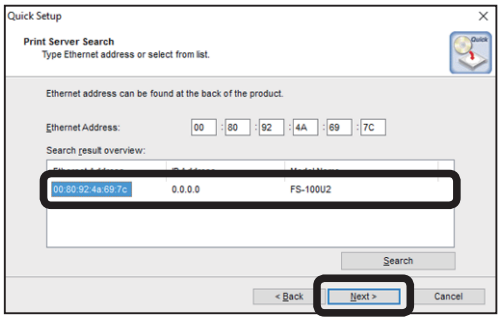
5 Read the SOFTWARE LICENSE AGREEMENT.
Click [Yes].



6 Select the print server.
Select the device and click [Next].

REFERENCE

If the device is not in the search result overview, click [Search]. The device can also be selected by entering Ethernet address directly.



7 Check the [Assign IP Address] button and set IP address for the environment that you are using.
Click [Next].

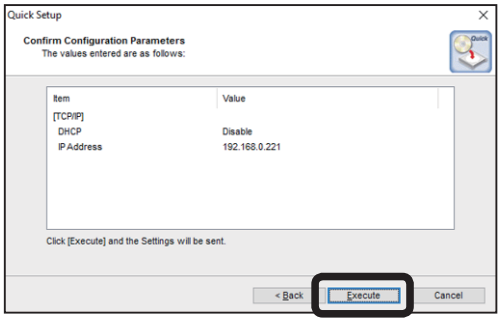
REFERENCE

- If DHCP server is available in the environment that you are using, IP address can be assigned automatically. However, if the IP address is changed, you need to set the printer port again.

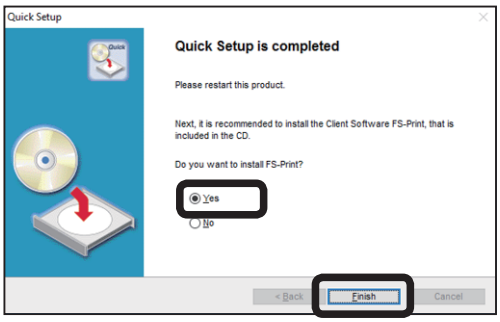
IMPORTANT

Be sure to check with the network administrator in advance for the IP address for the environment that you are using.

8 Check the configuration parameter.
Click [Execute].



9 The setup is complete.
Select [Yes] and then click [Finish].



REFERENCE

Install FS-Print in succession. This allows direct printing from Windows.

Installing FS-Print

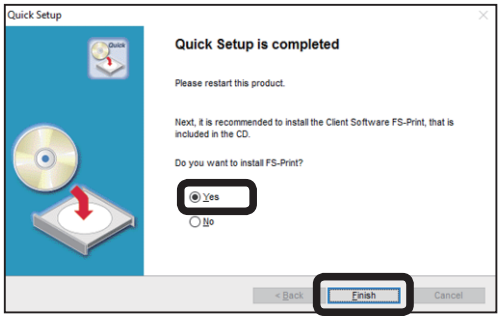
You can use the supplied FS-Print to print directly via TCP/IP using the device.
The FS-Print is a print client sofoware LPR (for Digital Duplicators) is included. After installing, Add Printer Port Wizard starts. The following steps use Windows 10 screenshots.

REFERENCE

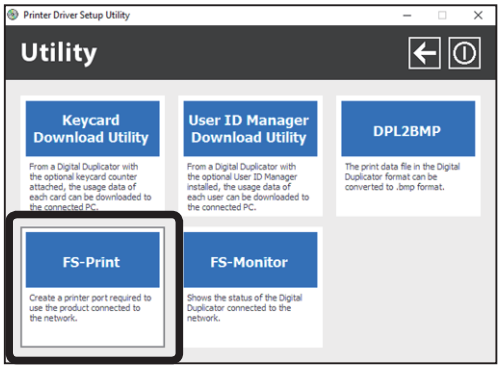
- LPR (Line Printer Remote)
  A widely used protocol that enables printing with the printer on the Local area network (LAN).

1 Check installation method.

(A) Installing after Quick Setup
Click [Yes] and then [Finish].



(B) Installing FS-Print only
Set the supplied CD-ROM. On the main menu, select [Utility] and select [FS-Print Install].

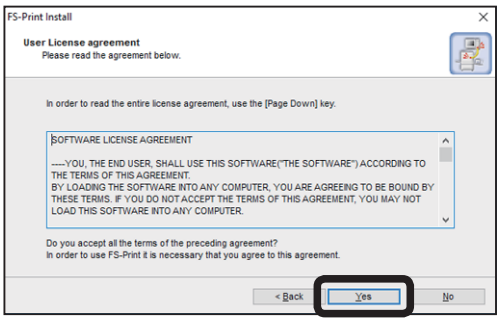


2 FS-Print Install Wizard starts.
Click [Next].

REFERENCE

- When [User Account Control] appears under, click [Yes]. When entering password, enter Administrator's password and click [Yes].

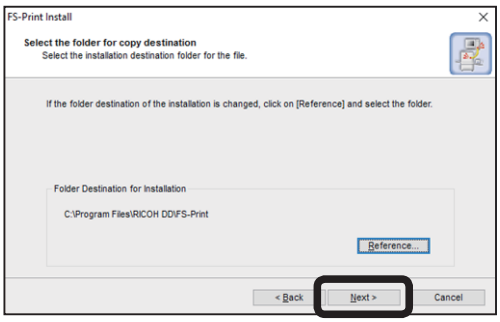
3 Read the SOFTWARE LICENSE AGREEMENT.
Click [Yes].



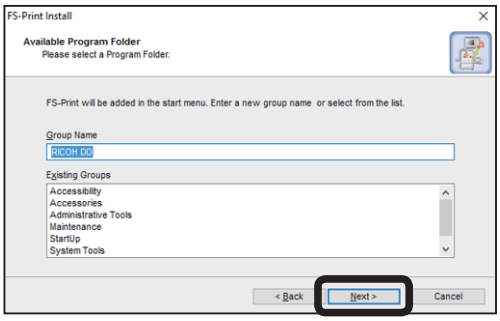
4 Specify the folder to install the program.
Click [Next].

REFERENCE

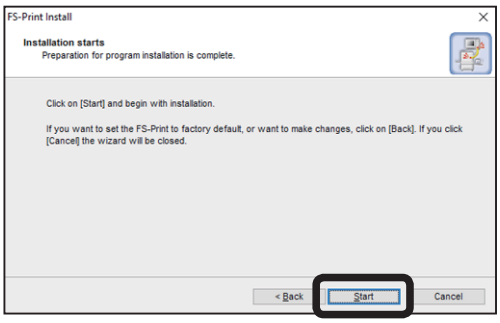
- Click [Reference] to select the folder to install.



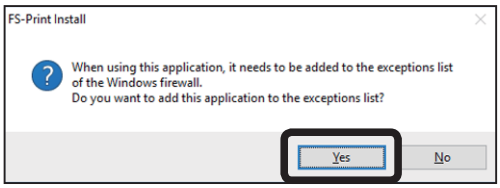
5 Enter the group name shown in the start menu.
Click [Next].



6 Start the installation.
Click [Start].

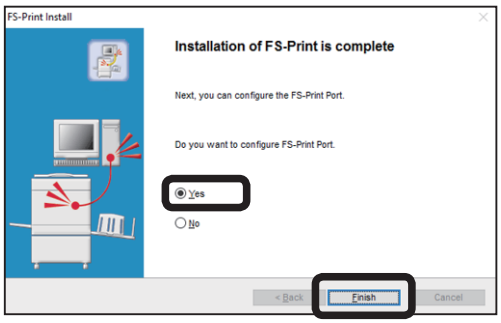


A promotion screen to add the application to the exceptions list of Windows firewall appears. Click [Yes] to register on the exception list.



Continue Page....

7 Install is complete.
Select [Yes] and click [Finish].

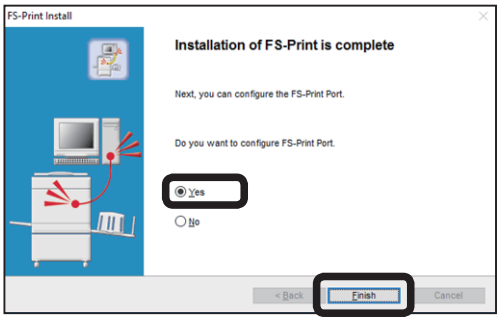


Adding a Printer Port

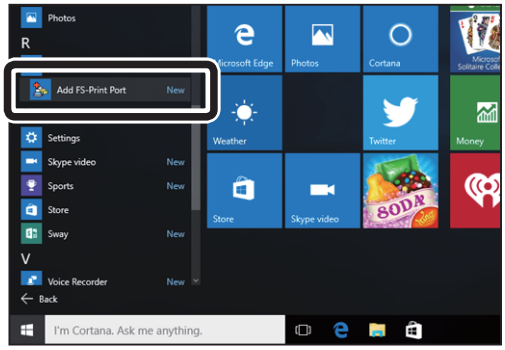
The following describes how to add a port for FS-Print. The following steps use Windows 10 screenshots.

1 Run [Add FS-Print Port Wizard].

(A) Installing after FS-Print installation
Select [Yes] and click [Finish].



(B) Adding from [Add FS-Print Port].
Click [Start] - [All Apps] - [RICOH DD], and then click [Add FS-Print Port].



REFERENCE

- In the case of Windows 8/8.1, move to the Apps view from the Start screen and click the [Add FS-Print Port] icon.
- In the case of Windows Vista/7, click [Start] - [All Programs] - [RICOH DD], and then click [Add FS-Print Port].

2 Add FS-Print Port Wizard starts.
Click [Next].

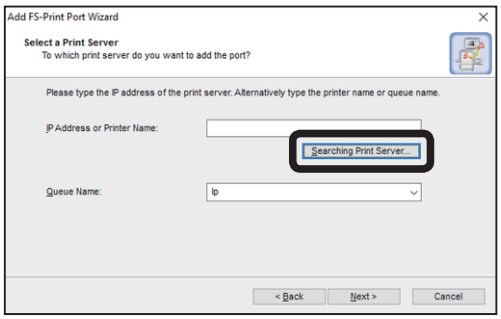
REFERENCE

- If [User account control] appears, click [Yes]. When entering password, enter password of administrator account and click [Yes].

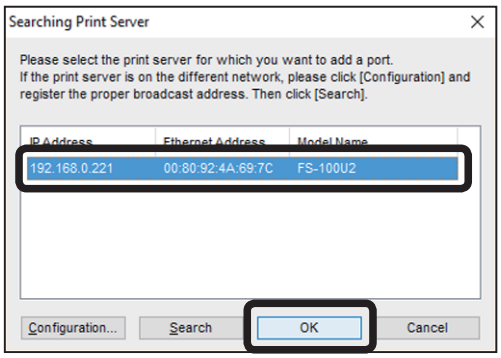
Continue Page....

Adding a Printer Port

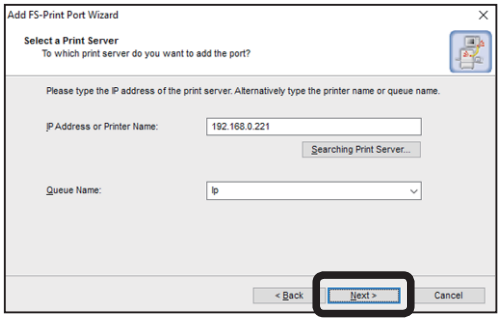
3 Click [Searching Print Server].



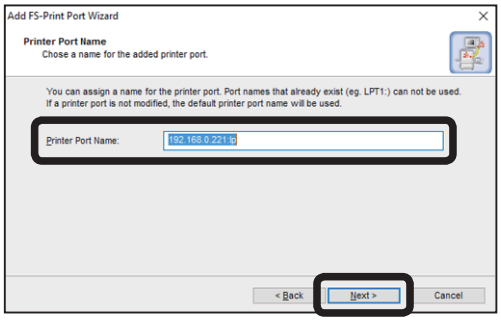
4 Select the device from the print server list.
Click [OK].



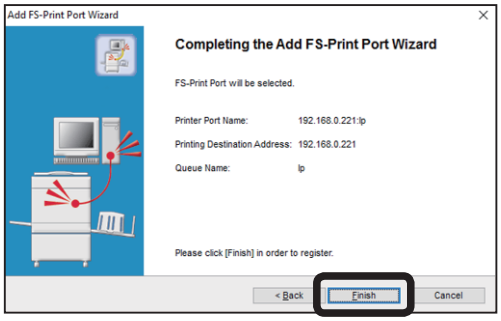
5 Click [Next].



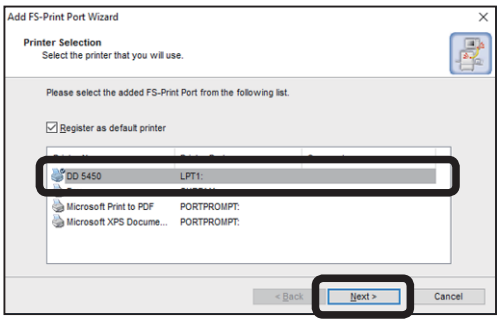
6 Enter the printer port name.
Use the default name when not specifying the name.
Click [Next].



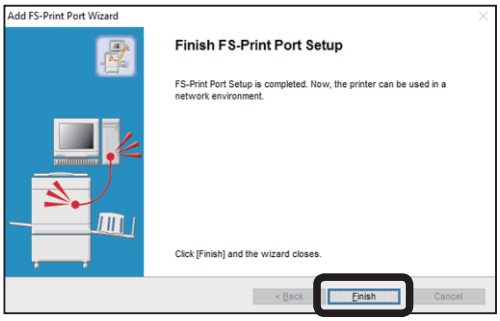
7 Check the settings.
Click [Finish].



8 Select the printer from the list.
Click [Next].



9 End the port setting.
Click [Finish].

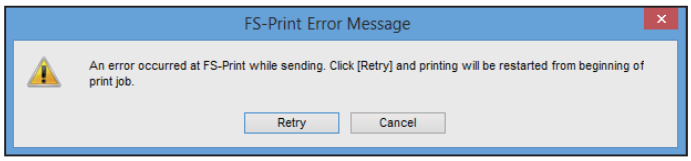


Configuring a Printer Driver

The following describes how to configure the printer driver.

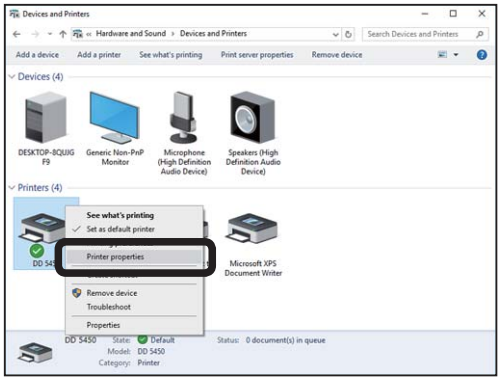
IMPORTANT

- The following error message may appear if the printer driver was installed without using the supplied CD-ROM. Select [Cancel] to follow the instruction below.

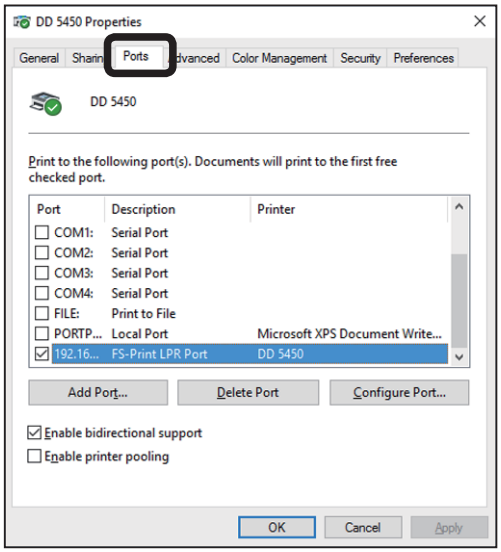


1. Click [Start] and click [Devices and Printers].

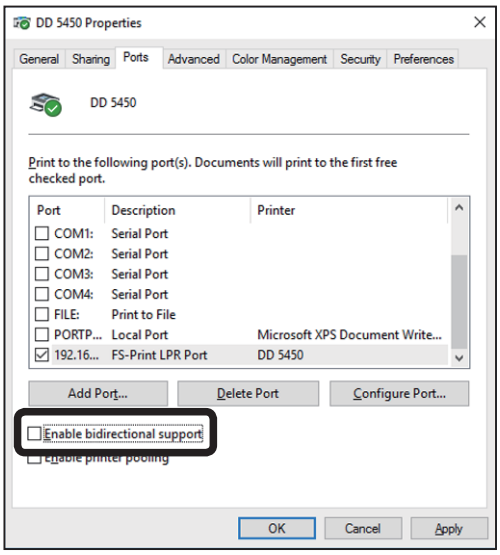
2. Select and right-click the Digital Duplicator, and click
[Printer properties] from the menu.



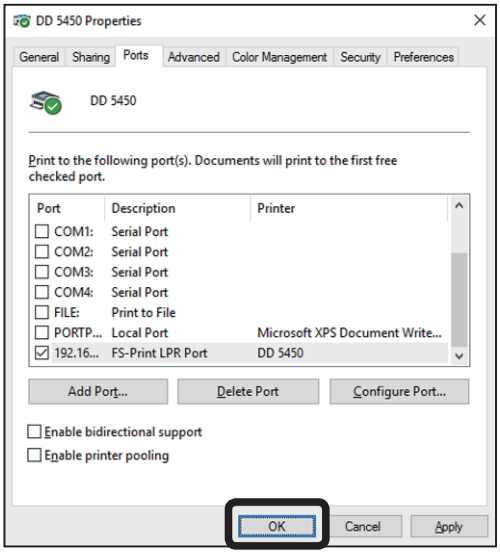
3. Click the [Ports] tab.



4 Set the bidirectional support.
Untick [Enable bidirectional support].



5 The setting is complete.
Click [OK].



MEMO

Chapter 4

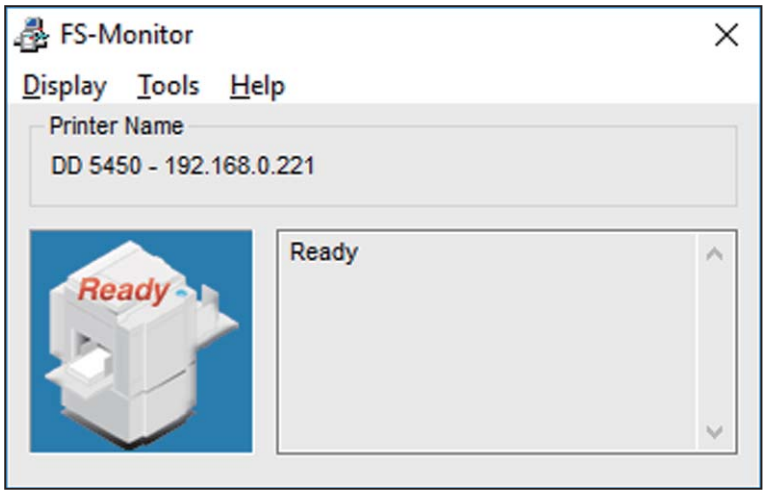
FS-Monitor

This chapter describes the installation and use of popup status monitor, "FS-Monitor".

FS-Monitor 30
Installation 31
Activating FS-Monitor 34
Setting FS-Monitor 35
Function of FS-Monitor 36
  Printer Information 36
  Status Message 36
  Printer Name 37
  Menu Structure 37
Options Dialog 38
  Status Monitoring 38
  Display 39

FS-Monitor

This monitor shows you the printer status on the screen. It resides on the desktop to present the printer status in real time.

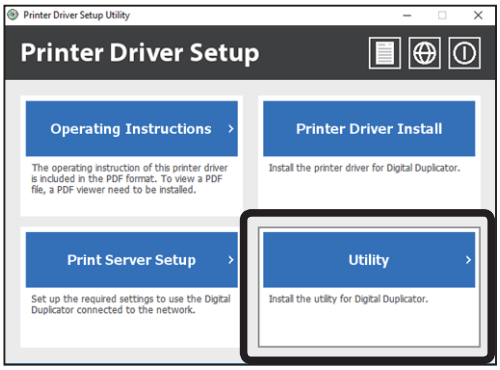


Installation

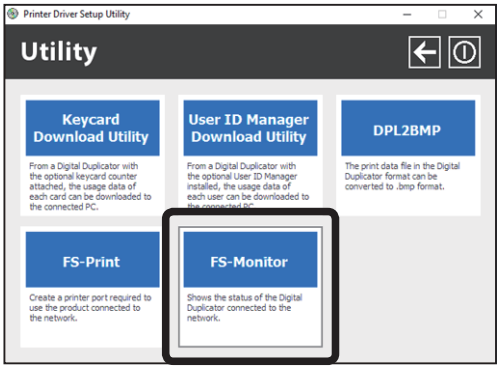
IMPORTANT

- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.

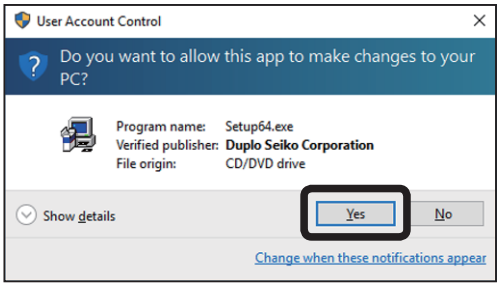
1 Click [Utility] from the Main Menu (“Setup Software” → p.3).



2 Click [FS-Monitor].



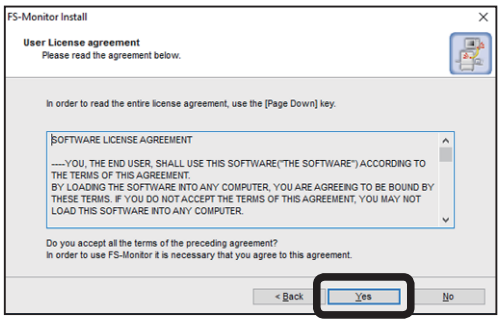
3 If [User account control] appears, click [Yes]. When entering password, enter password of administrator account and click [Yes].



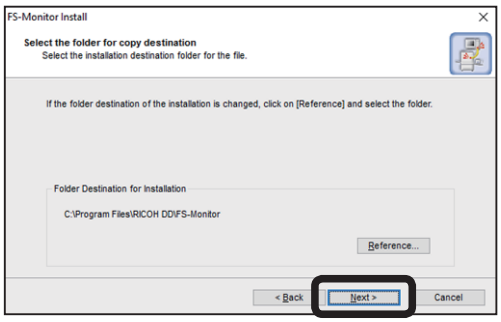
4 FS-Monitor Install Wizard will start.
Click [Next].

Continue Page....

5 Read the Software License Agreement.
Click [Yes].



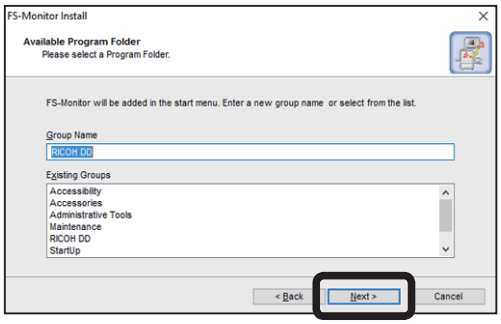
6 Select the folder for installation.
Click [Next].



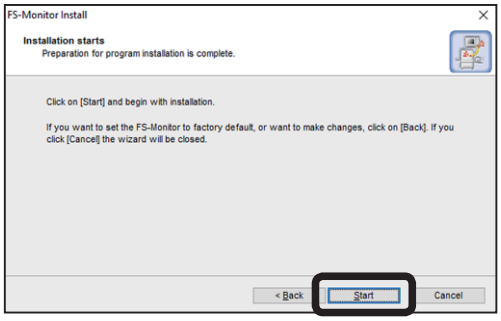
REFERENCE

- You can select the folder for installation by clicking [Reference].

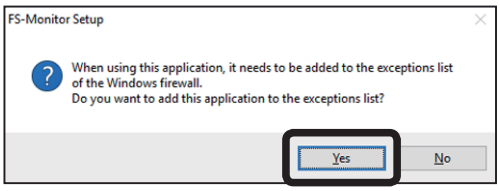
7 Enter a group name to display in the start menu.
Click [Next].



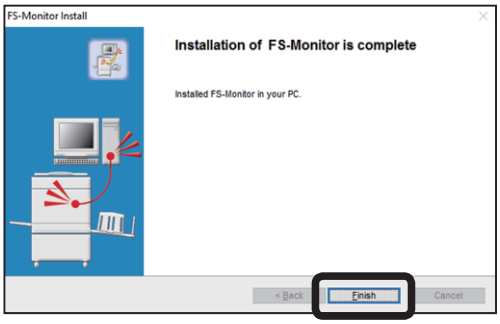
8 Click [Start] to begin installation.



9 A prompting screen to register Printer Unit (NIC) Type D1 in the exceptions list of Windows Firewall appears. Click [Yes] and register Printer Unit (NIC) Type D1 in the exceptions list.



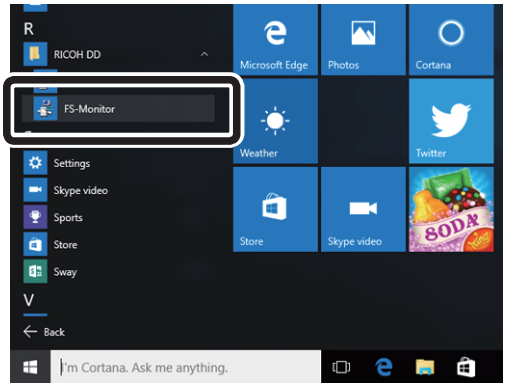
10 Installation is complete.
Click [Finish].



Activating FS-Monitor

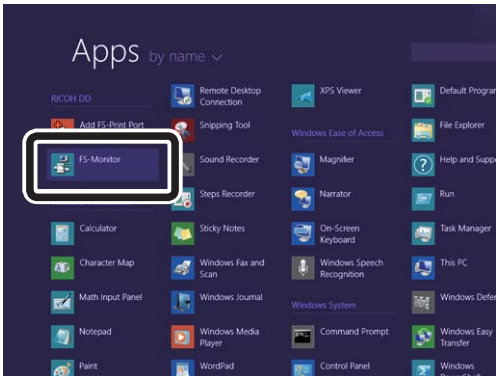
●Windows 10

Click [start] - [All Apps] - [RICOH DD (or the group name you select)] - [FS-Monitor] to activate FS-Monitor.



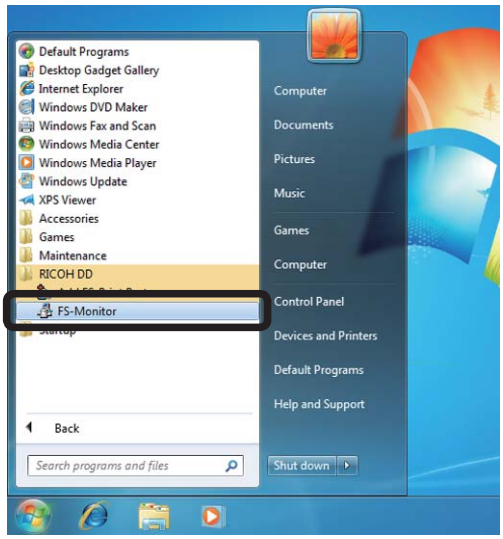
●Windows 8/Windows 8.1

Move to the Apps view from the Start screen and click the [FS-Monitor] icon to activate FS-Monitor.



●Windows Vista/Windows 7

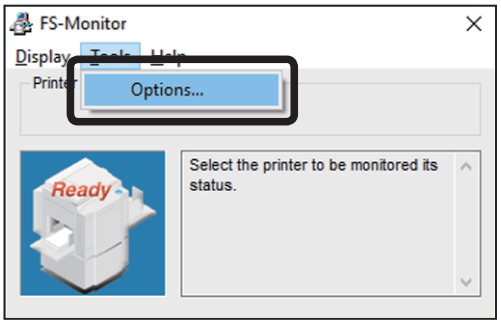
Click [start] - [All Programs] - [FS-Monitor (or the group name you select)] - [FS-Monitor] to activate FS-Monitor.



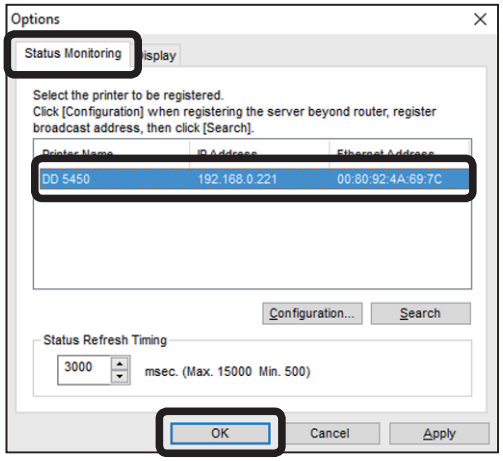
Setting FS-Monitor

This section describes the setting procedures when running FS-Monitor for the first time, and changing the printer which is monitored by the FS-Monitor.

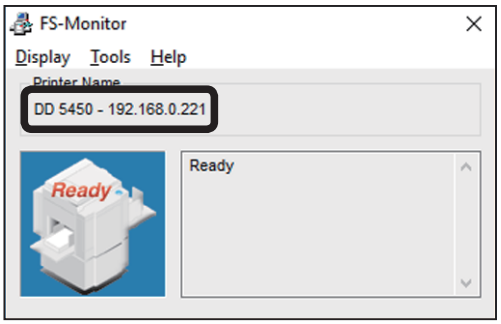
1 Click [Tools] and click [Options].



2 Select the printer to be monitored by using the [Status Monitoring] tab, and click [OK].



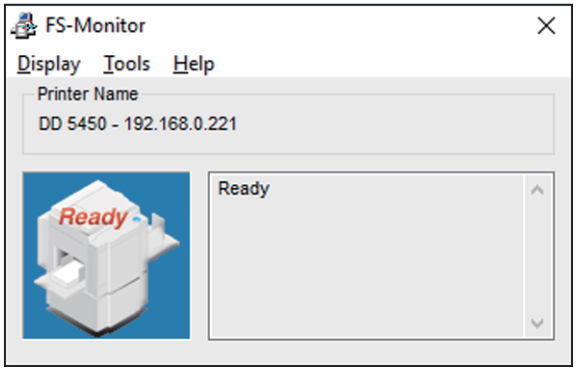
3 The selected printer name appears.



Function of FS-Monitor

Printer Information

The printer status is displayed.



Status Message

The status of the connected printer is displayed.

Status	Message
Ready	Ready.
Master Making	Master Making.
Printing	Printing.
Offline	Offline
Power Off	The power of Digital Duplicator is not ON. Turn on the power of Digital Duplicator.
Communication Error	Cannot communicate. Check the connection of cables etc.
Cover Open	A Cover is open. Close the cover.
Exchange Ink	There is no ink. Replace the old ink pack with a new one.
Roll-Master End	There is no master. Replace the master roll with a new one.
Exchange Eject-Roll	Change master ejection core.
Paper Empty	There is no paper. Load the printing paper.
Paper Jam	Paper jam. Remove the jammed paper.
Error	An error has occurred. Check the Digital Duplicator.

REFERENCE

- The displayed status may vary depending on the printer model.
- It may take time to display the status.

Printer Name

The name and IP address of the connected printer are displayed.

Menu Structure

Menu	Item	Description
Display	Always display in front	Always keeps the window in the foreground. The window may be hidden behind depending on settings of other programs.
	Minimize	Minimizes the window.To restore to its original size, click the FS-Monitor icon in the notification area of the taskbar.
	Exit	Exits FS-Monitor.
Tools	Options	Displays the options dialog.
Help	About	Shows the version information.

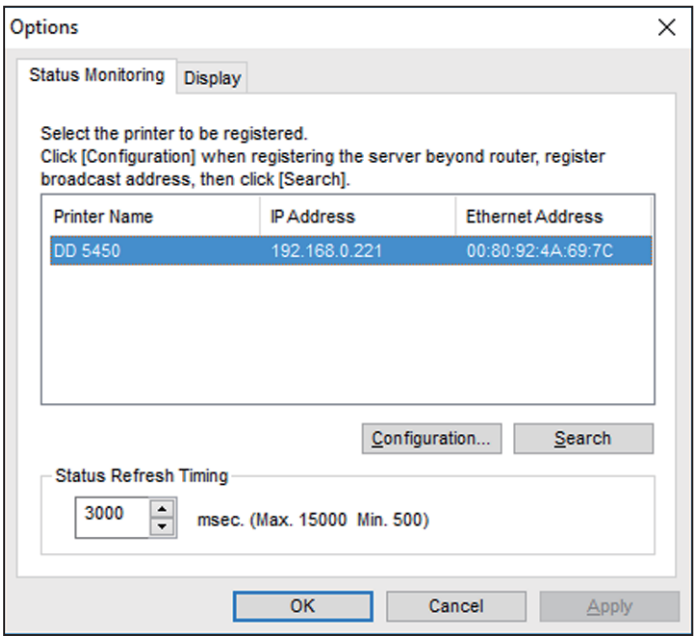
REFERENCE

- The FS-Monitor icon will be put in the notification area on the taskbar when minimized.
- Click the icon to open the FS-Monitor window.

Options Dialog

It is possible to modify settings for FS-Monitor. Click [Options] to display the [Options] screen.

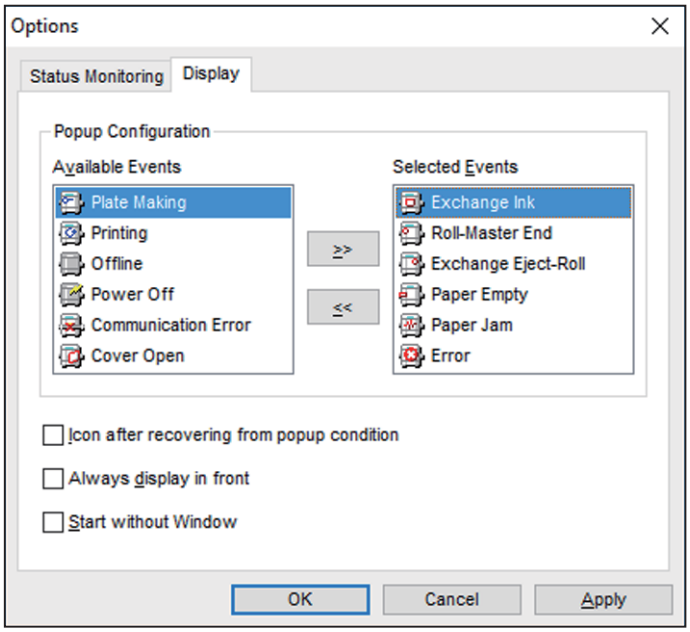
Status Monitoring



- **Printer list**
  Displays the list of printers connected to the network. Select one for status monitoring.

- **Status refresh timing**
  Sets the interval for refreshing the printer status.

Display



- **Available Events**
  List of events available with "FS-Monitor".

- **Selected Events**
  List of selected events to be displayed in. If a printer event corresponds to one of them, "FS-Monitor" appears.

- >>
  Adds items of "Available Events" to "Selected Events".

- <<
  Restores items of "Selected Events" to "Available Events".

- **Icon after recovering from popup configuration**
  Automatically minimizes "FS-Monitor" icon on the taskbar after printer event.

- **Always display in front**
  Always keeps the window in the foreground. The window may be hidden behind depending on settings of other programs.

- **Start without Window**
  Starts "FS-Monitor" in minimum size.

MEMO

Chapter 5

Other Print Settings

There are various print settings in Printer Unit (NIC) Type D1.
This chapter describes the procedures of print settings other than basic settings.

Various Print Settings ····· 42
Printing with LPR Port ····· 43
Printing with Standard TCP/IP ····· 48
Printing with IPP Port ····· 53
Printing with NetBIOS over TCP/IP ····· 56
NetBIOS over TCP/IP ····· 58
Workgroup Structure of NetBIOS over TCP/IP ····· 58

Various Print Settings

There are various print settings in Printer Unit (NIC) Type D1. Please select appropriate print settings for your use.

Print method	Reference page
Printing with FS-Print	P.20
Printing with LPR port	P.43
Printing with Standard TCP/IP	P.48
Printing with IPP port	P.53
Printing with NetBIOS over TCP/IP	P.56

Printing with LPR Port

Printing with OS print client (LPR port) instead of using FS-Print

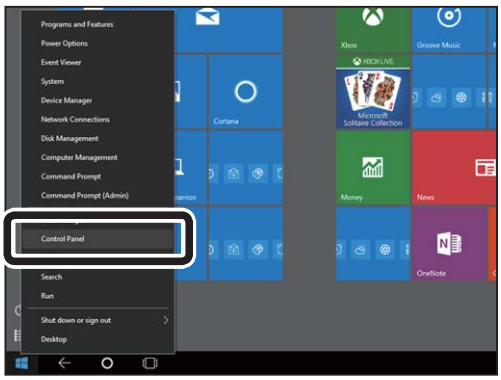
IMPORTANT

- To install the printer driver, you must sign in as a user with administrator rights.
- If multiple users are allowed on one computer at the same time, please be sure that only one user is signed in.
- If [User account control] appears, click [Yes]. When entering password, enter password of administrator account and click [Yes].
- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.

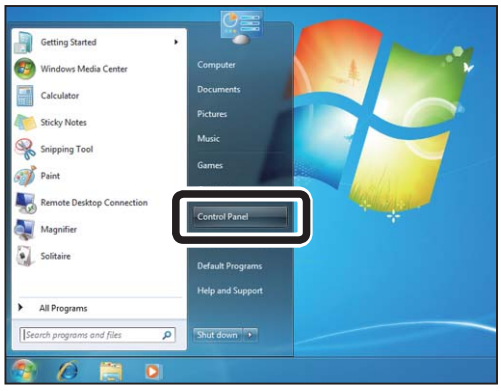
●Add the LPR Port

1 Open [Control Panel].

- **Windows 8/Windows 8.1/Windows 10**
  Move the mouse cursor to the lower-left corner of the screen and right-click the start button.
  Click [Control Panel] on the menu.

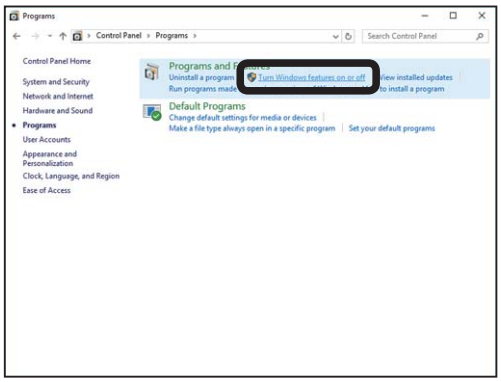


- **Windows Vista/Windows 7**
  Click the [Start] button on the task bar and click [Control Panel] on the menu.



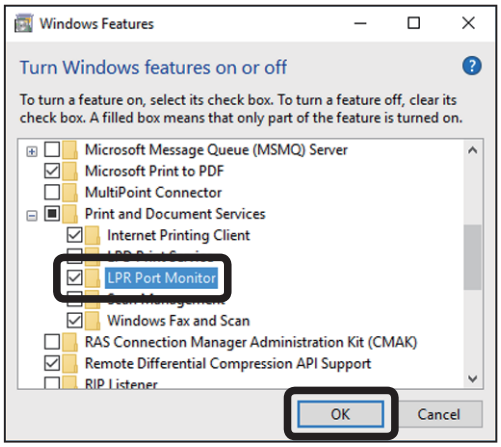
Continue Page....

2 Click [Programs] and [Turn Windows features on or off].

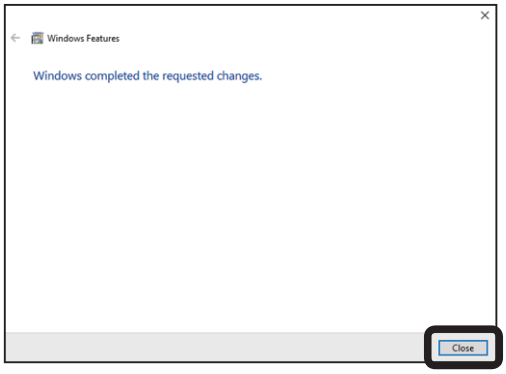


3 [Windows Features] appears.

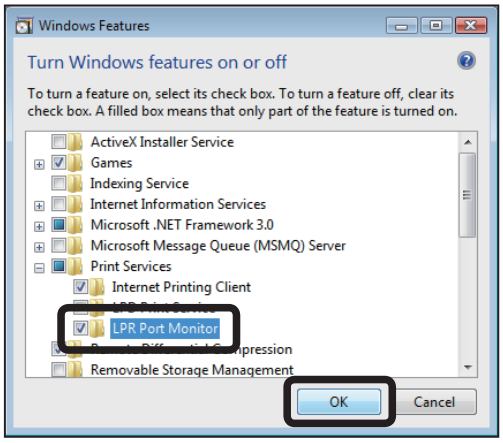
• **Windows 7/Windows 8/Windows 8.1/Windows 10**
Select [Print and Document Services] - [LPR Port Monitor] and click [OK].



Click [Close].



• **Windows Vista**
Select [Printing Services] - [LPR Port Monitor] and click [OK].

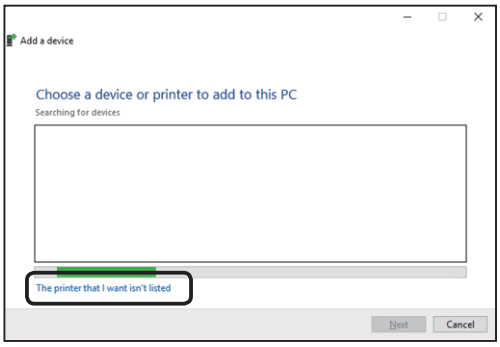


●Add the Printer

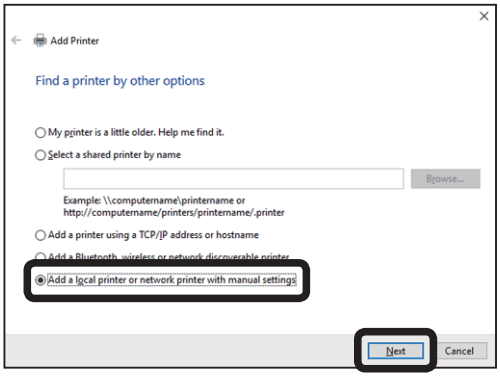
1 Click [Start] and click [Control Panel], then click [Hardware and Sound] and [Advanced printer setup] or [Add a Printer].

2 Add a local printer.

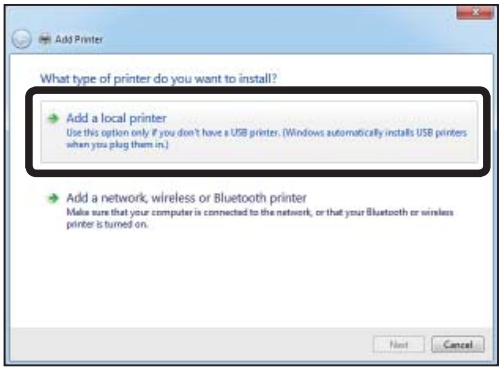
• **Windows 8/Windows 8.1/Windows 10**
Click [The printer that I want isn't listed].



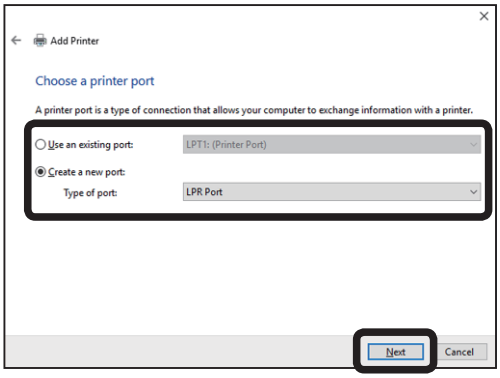
Select [Add a local printer or network printer with manual settings] and click [next].



• **Windows Vista/Windows 7**
Click [Add a local printer].

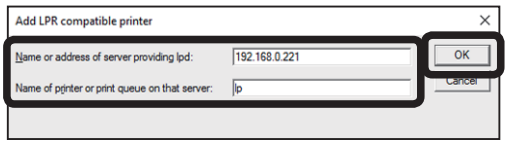


3 Select a printer port.
Check [Create a new port] and select [LPR Port].
Click [Next].



Continue Page....

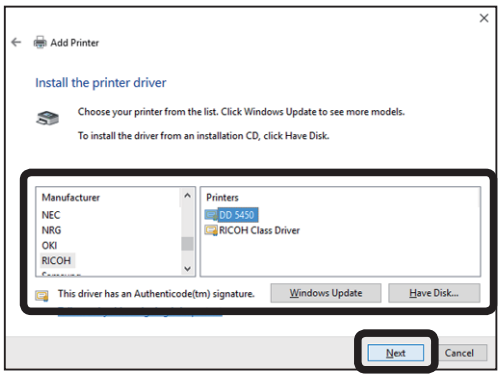
4 Add a LPR compatible printer.
Enter IP address and 'ip', and click [OK].



5 Select a printer driver.
Click [Next].

REFERENCE

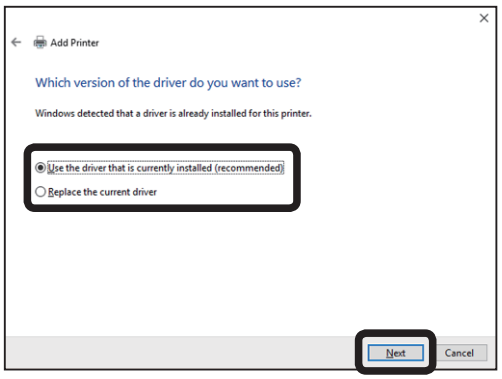
- Click [Have Disk] to install using the printer driver disk supplied with the printer.
- For the installation, refer to the printer driver manual supplied with the printer.



6 Check the printer driver.
Select [Use the driver that is currently installed (recommended)] or [Replace the current driver], and click [Next].

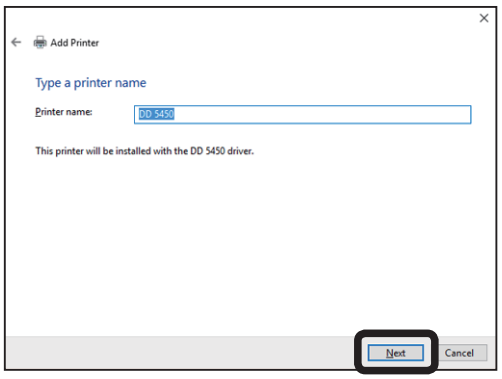
REFERENCE

- If you installed a new driver separately, select [Replace the current driver].

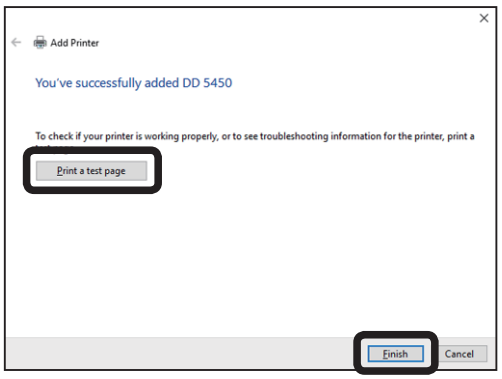


7 Register a printer name.
If you are not using a specific printer name, use the default one. Click [Next].

If another printer has been installed previously, you can select whether to set this printer to the default printer.



8 If you are going to print a test page, click [Print a test page].
Click [Finish].



9 If the printing is successful, the setting is complete.

Printing with Standard TCP/IP

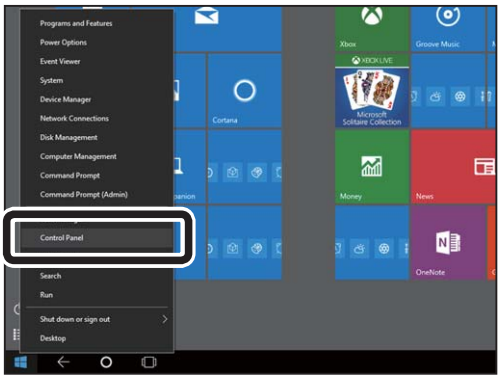
Printing with OS print client (Standard TCP/IP) instead of using FS-Print

IMPORTANT

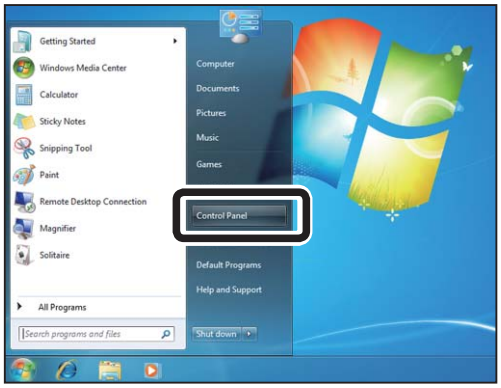
- To install the printer driver, you must sign in as a user with administrator rights.
- If multiple users are allowed on one computer at the same time, please be sure that only one user is signed in.
- If [User account control] appears, click [OK]. When entering password, enter password of administrator account and click [OK].
- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.

1 Open [Control Panel].

• **Windows 8/Windows 8.1/Windows 10**
Move the mouse cursor to the lower-left corner of the screen and right-click the start button.
Click [Control Panel] on the menu.



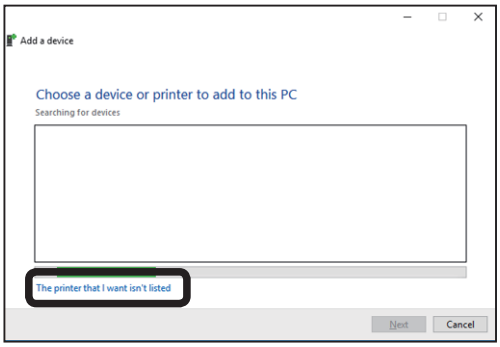
• **Windows Vista/Windows 7**
Click the [Start] button on the task bar and click Control Panel] on the menu.



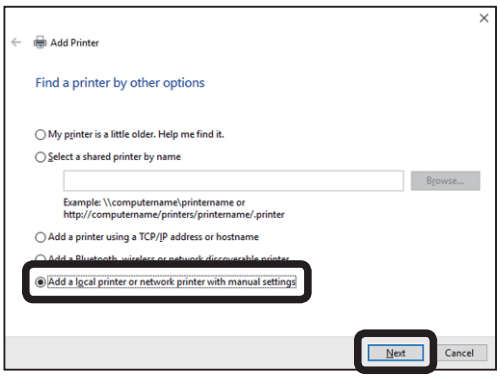
2 Click [Hardware and Sound] and [Advanced printer setup] or [Add a Printer].

3 Add a local printer.

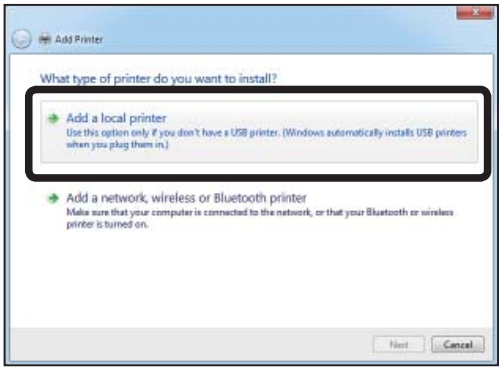
• **Windows 8/Windows 8.1/Windows 10**
Click [The printer that I want isn't listed].



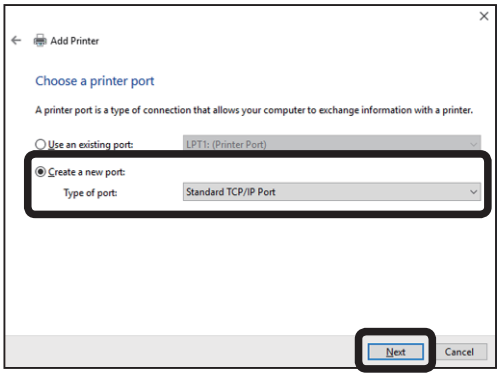
Select [Add a local printer or network printer with manual settings] and click [next].



• **Windows Vista/Windows 7**
Click [Add a local printer].

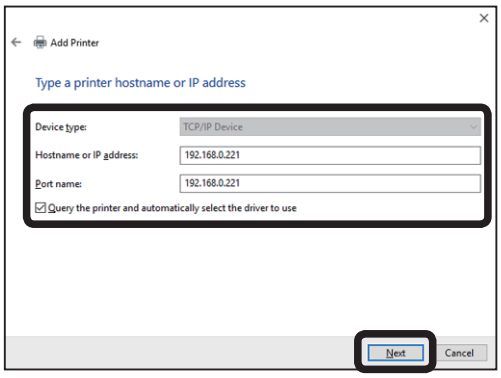


4 Choose a printer port.
Check [Create a new port] and choose [Standard TCP/IP Port].
Click [Next].

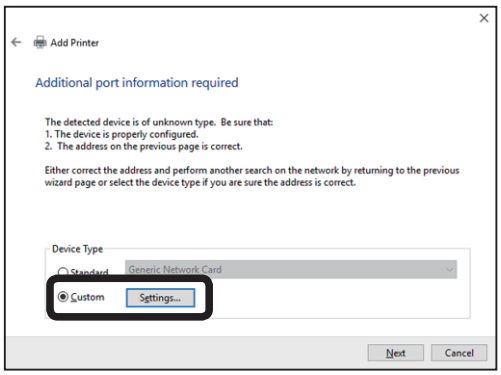


Continue Page....

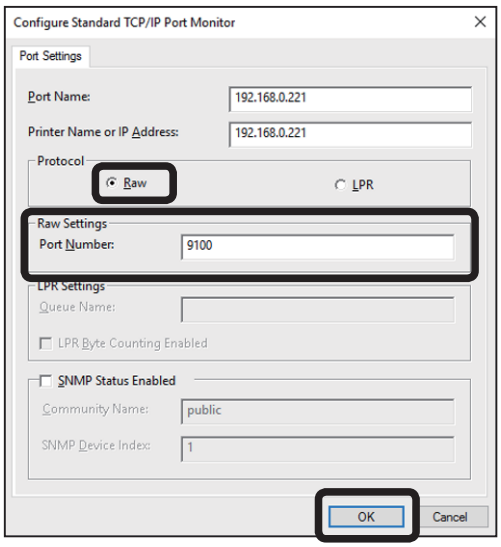
5 Add a printer port.
Select [TCP/IP Device] for the device type. Enter the IP address assigned to the device for the Hostname or IP address. Use the default (xxx.xxx.xxx.xxx) when not using a specific name.
Click [Next].



6 Specify the device type.
Check [Custom] and click [Settings].

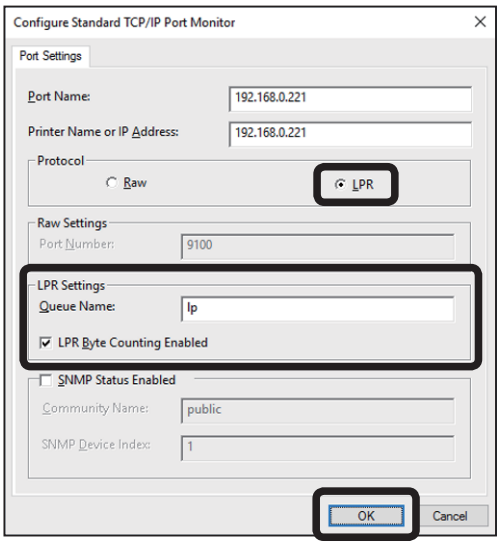


7 Enter the port information.
(A)Using in the Raw mode.
Check [Raw] for the protocol, enter '**9100**' for the port number, and then click [OK].

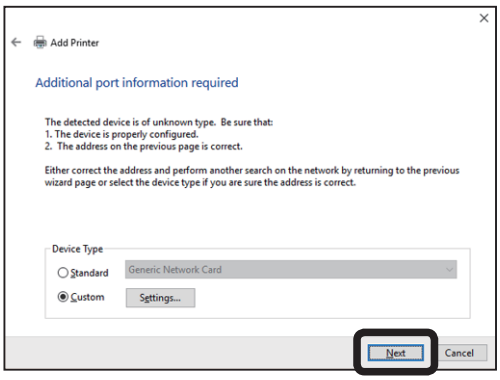


(B)Using in the LPR mode

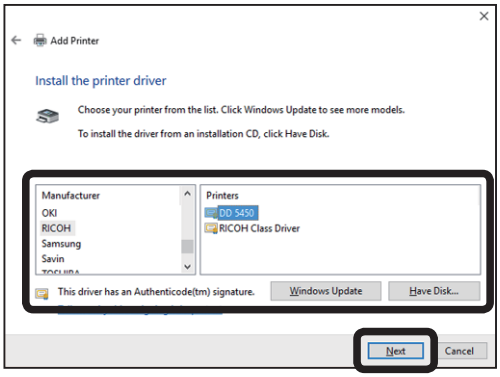
Check [LPR] for the protocol, enter 'ip' for the queue, check the [LPR Byte Counting Enabled], and then click [OK].



8 Click [Next].



9 Select a printer driver.
Click [Next].



REFERENCE

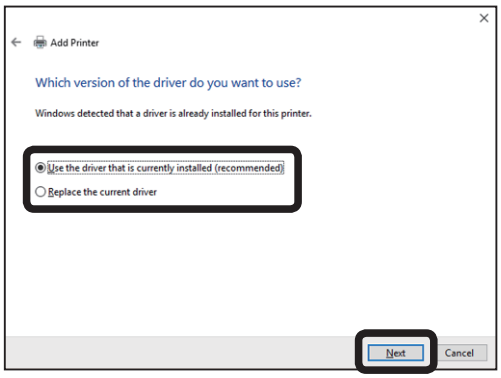
- Click [Have Disk] to install using the printer driver disk supplied with the printer.
- For the installation, refer to the printer driver manual supplied with the printer.

Continue Page....

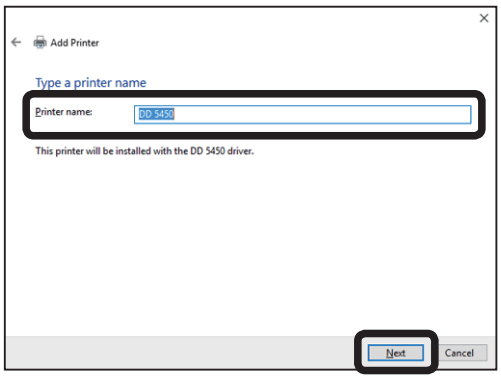
10 Check the printer driver.
Select [Use the driver that is currently installed (recommended)] or [Replace the current driver], and click [Next].

REFERENCE

- If you installed a new driver separately, select [Replace the current driver].

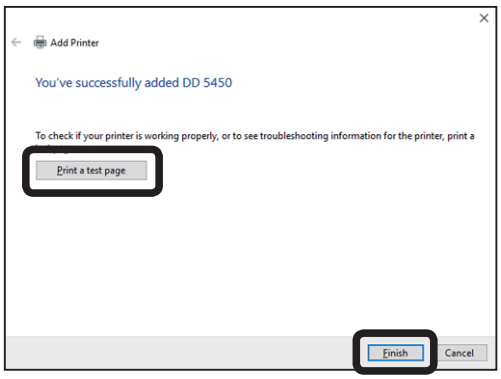


11 Register a printer name.
If you are not using a specific printer name, use the default one. Click [Next].



12 If you are going to print a test page, click [Print a test page].
Click [Finish].

If another printer has been installed previously, you can select whether to set this printer to the default printer.



13 If the printing is successful, the setting is complete.

Printing with IPP Port

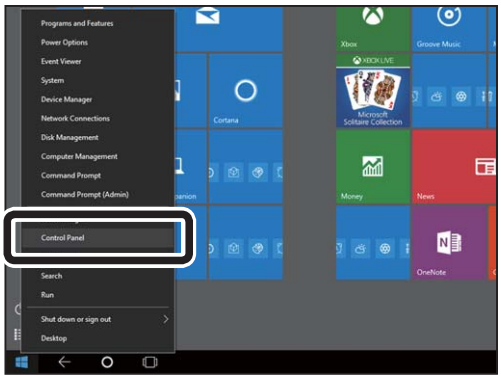
This section describes the printing procedures of using IPP port.

IMPORTANT

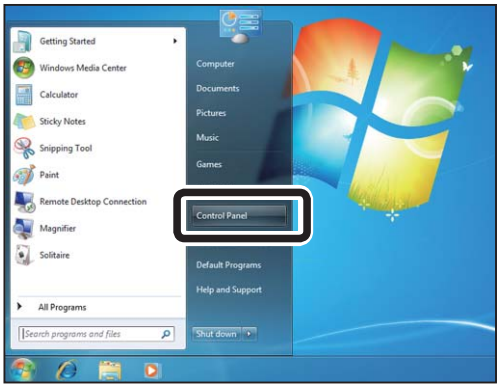
- To install the printer driver, you must sign in as a user with administrator rights.
- If multiple users are allowed on one computer at the same time, please be sure that only one user is signed in.
- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.

1 Open [Control Panel].

• **Windows 8/Windows 8.1/Windows 10**
Move the mouse cursor to the lower-left corner of the screen and right-click the start button.
Click [Control Panel] on the menu.



• **Windows Vista/Windows 7**
Click the [Start] button on the task bar and click Control Panel] on the menu.



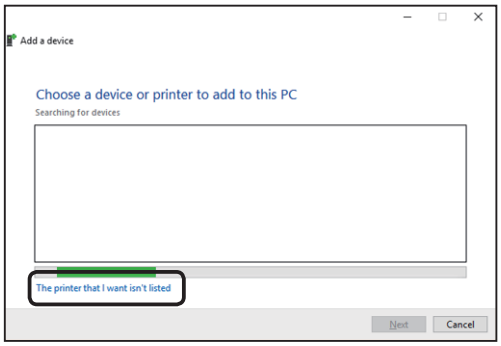
2 Click [Hardware and Sound] and [Advanced printer setup] or [Add a Printer].

Continue Page....

3 Add a local printer.

• **Windows 8/Windows 8.1/Windows 10**

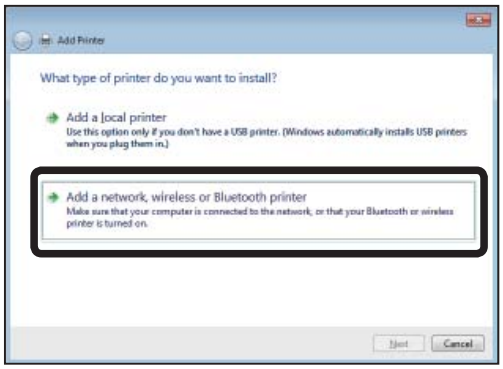
Click [The printer that I want isn't listed].



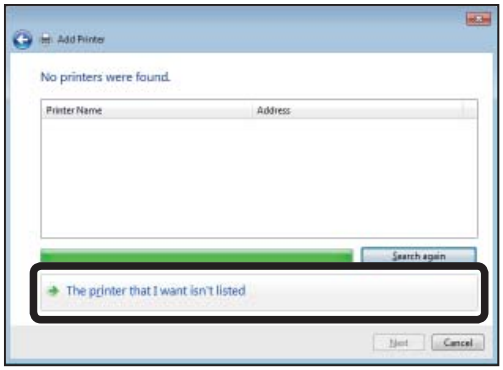
• **Windows Vista/Windows 7**

Click [Start] and click [Control Panel], then click [Hardware and Sound] and the [Add a Printer] icon.

Click [Add a network, wireless or Bluetooth printer].



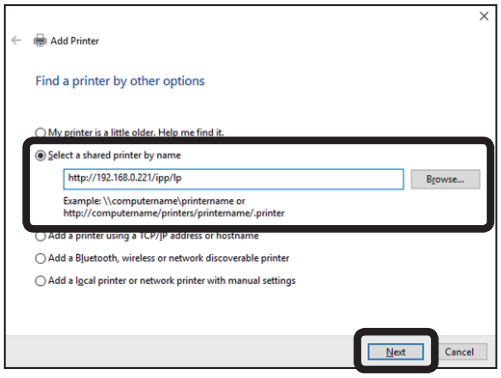
Click [The printer that I want isn't listed].



4 Enter the address of the device.
Select [Select a shared printer by name], and enter the URL or the IP address of the device.
Click [Next].

REFERENCE

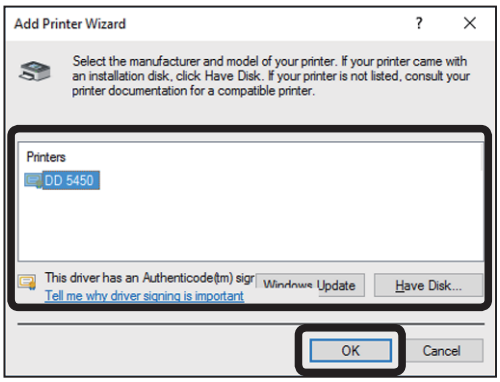
Example: When URL is 'abc.co.jp'
http://abc.co.jp/ipp/lp or http://abc.co.jp/ipp
Example: When IP address is '192.168.0.221'
http://192.168.0.221/ipp/lp or
http://192.168.0.221/ipp



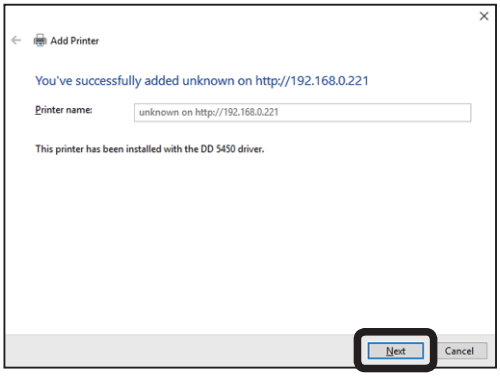
5 Select a printer driver.
Click [OK].

REFERENCE

- Click [Have Disk] to install using the printer driver disk supplied with the printer.
- For the installation, refer to the printer driver manual supplied with the printer.

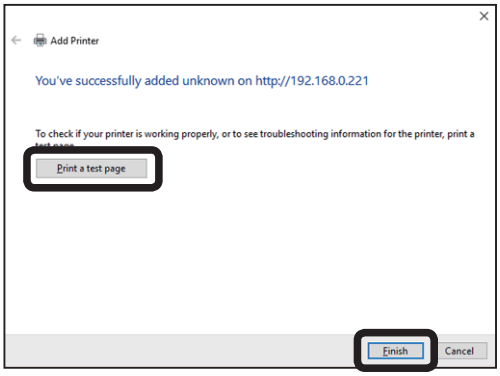


6 Click [Next].



7 If you are going to print a test page, click [Print a test page].
Click [Finish].

If another printer has been installed previously, you can select whether to set this printer to the default printer.



8 If the printing is successful, the setting is complete.

Printing with NetBIOS over TCP/IP

Follow the procedure below to print with NetBIOS over TCP/IP.

IMPORTANT

- To install the printer driver, you must sign in as a user with administrator rights.
- If multiple users are allowed on one computer at the same time, please be sure that only one user is signed in.

REFERENCE

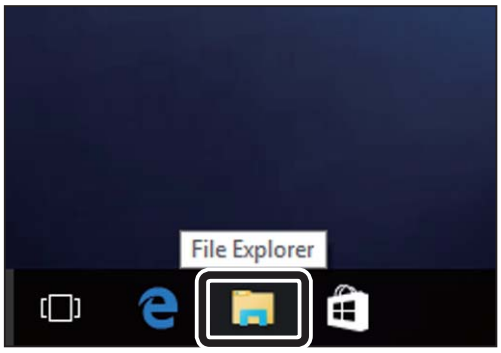
- Refer to "Chapter 6 Setting Functions" for detailed settings of NetBEUI or NetBIOS over TCP/IP. (“Setting Functions” → see p.63)

IMPORTANT

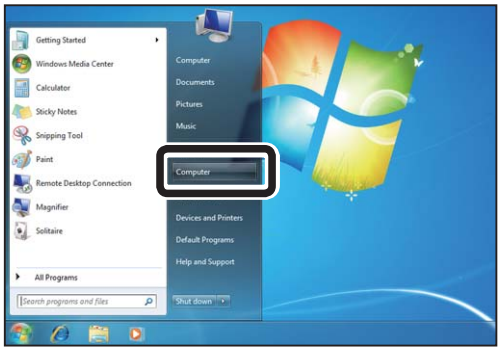
- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.

1

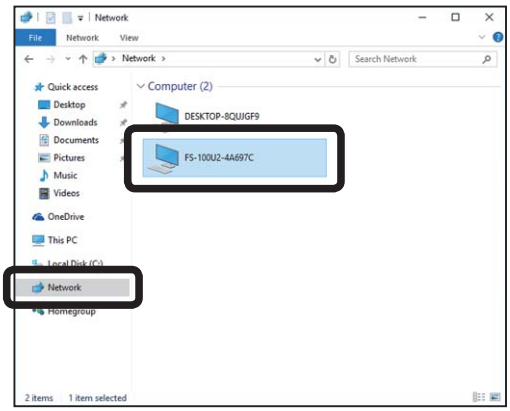
- **Windows 8/Windows 8.1/Windows 10**
  Click [File Explorer] icon on the Desktop.



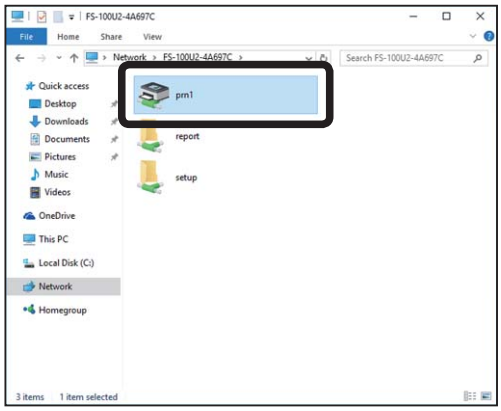
- **Windows Vista/Windows 7**
  Click the [Start] button on the task bar and click [Computer] on the menu.



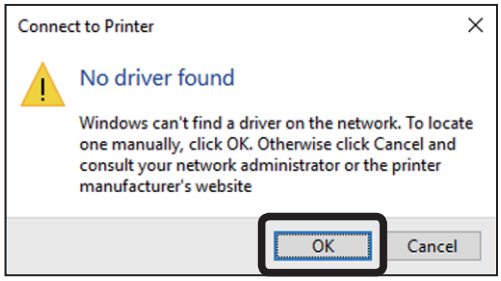
2 Click [Network], then Double-click the computer icon (the device).



3 Double-click the [prn1] Printer icon.



4 The message below appears.
Click [OK].



5 Add Printer Wizard starts. Follow the guide to set it up. Printer is successfully added when the printer test page is printed.

REFERENCE

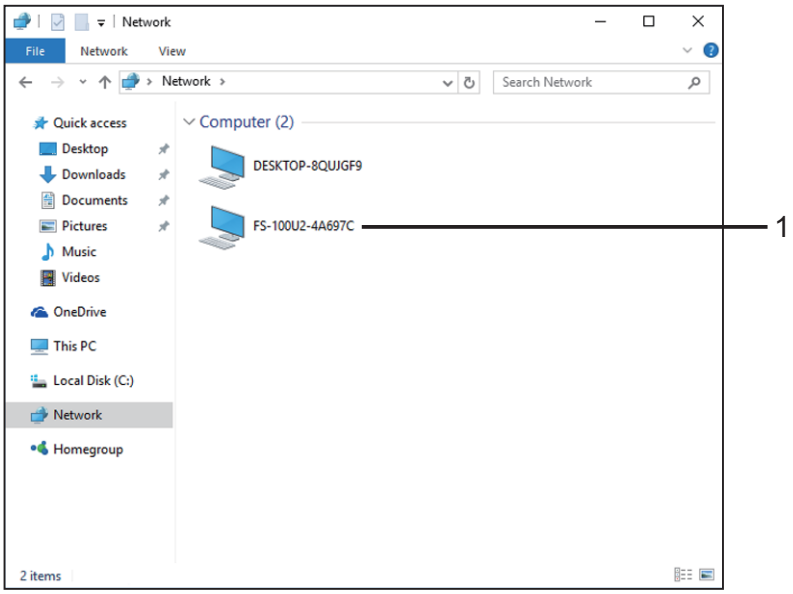
- Click [Have Disk] to install a printer driver using the disk supplied with the printer.
- For the installation, refer to the printer driver manual supplied with the printer.

NetBIOS over TCP/IP

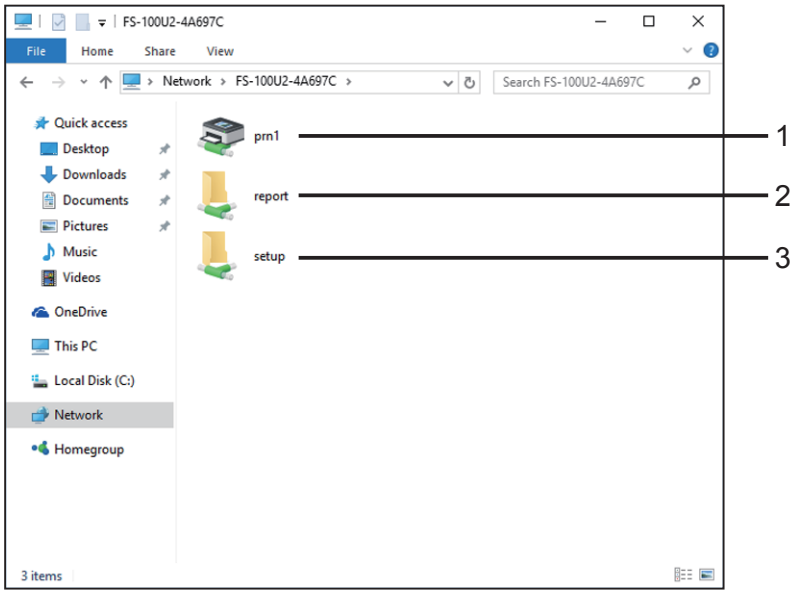
Workgroup Structure of NetBIOS over TCP/IP

About the workgroup structure of NetBIOS over TCP/IP.

(Example) Ethernet address of the device: 00:80:92:4A:69:7C



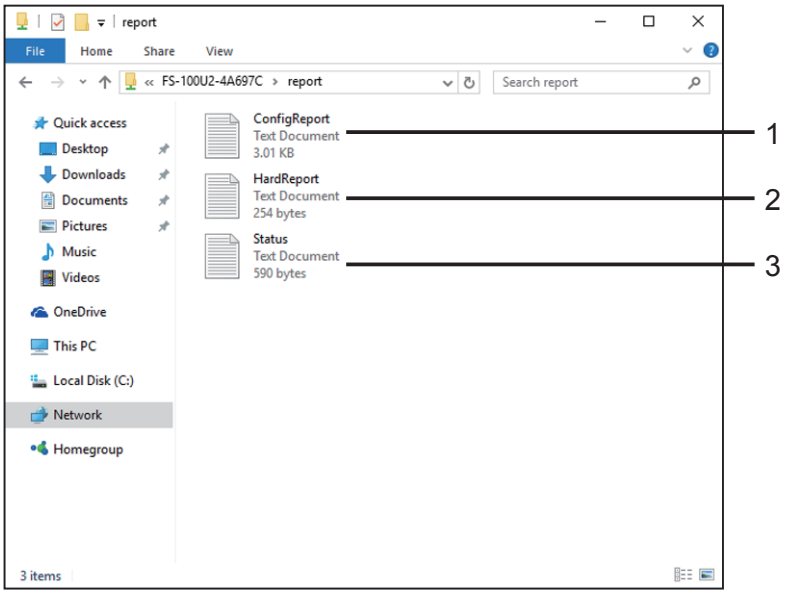
1. Computer Name[\\FS-100U2-4A697C]
   A computer name of a print server can be changed arbitrarily.
   (“Setting Functions” → see p.63)



1. Printer icon [\\FS-100U2-4A697C\prn1]

2. Report Folder [\\FS-100U2-4A697C\report]

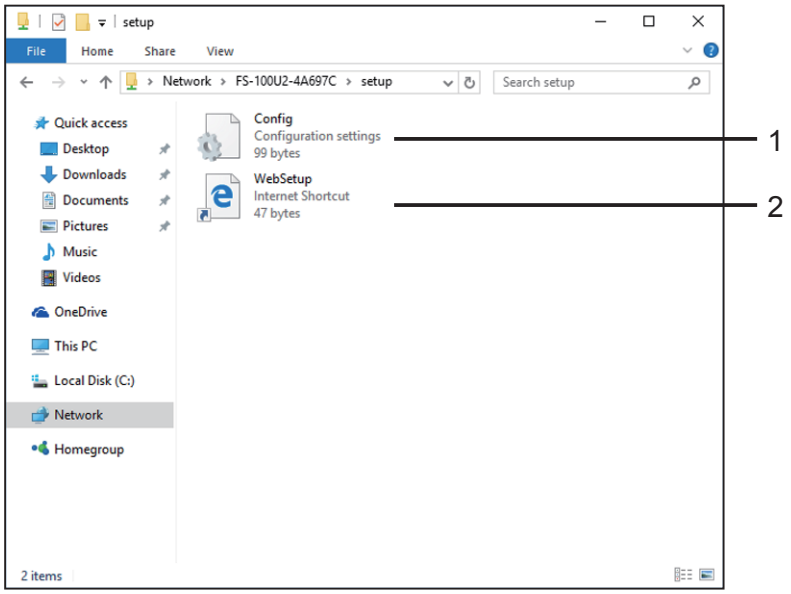
3 .Setting Folder [\\FS-100U2-4A697C\setup]



1. Setting report (Read only) [\\FS-100U2-4A697C\report\ConfigReport.txt]
   Outputs the internal information of when the device is started.

2. Diagnostic report (Read only) [\\FS-100U2-4A697C\report\HardReport.txt]

3. System status report (Read only) [\\FS-100U2-4A697C\report\Status.txt]
   Outputs the status of when the device is stated.



1. Initial setting file (Read/Write) [\\FS-100U2-4A697C\setup\Config.ini]
   Enter [Workgroup name] and [IP address] in the initializing file. Use an editor, such as Notepad, and overwrite the file to set it up. After 3 seconds from overwriting, the device performs automatic reset and reboot. Modify the workgroup name and IP address by editing and overwriting the initializing file.
   (Example)
   Workgroup=UserGroup
   IP Address=192.168.0.221
   Specify the group name that exists in the entire network. If the IP address is assigned automatically by the DHCP/BOOTP or the RARP server, the setting is disabled, even if it is set to [IP Address]

2. Shortcut file (Read only) [\\FS-100U2-4A697C9\setup\WebSetup]
   A shortcut (Web Setup) is created when an IP address is assigned to the device. Double-click the shortcut icon. The Web browser will start up to show the Web page of the device.

REFERENCE

- Refer to "Chapter 6 Setting Functions" for more about the Web browser.
  (“Setting Functions” → see p.63)

MEMO

Chapter 6

Setting Functions

This chapter describes the advanced setup using AdminManager and Web browser.

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Starting AdminManager 64
Searching the Device with AdminManager 66
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Print Server Setup 69
General 70
TCP/IP 71
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SNMP 74
SMTP 75
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Opening the Web Page 77
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SNMP 83
E-Mail transmission (SMTP) 84

Using AdminManager

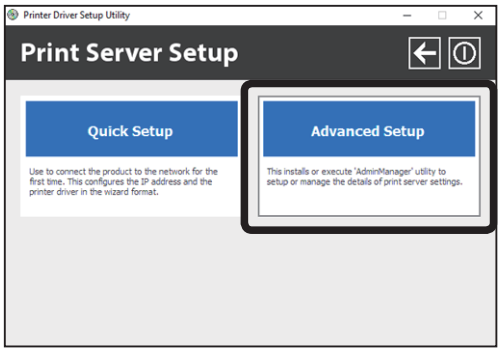
[AdminManager] allows advanced and setting change. Remote reboot and Printer status monitor are accessible functions.

IMPORTANT

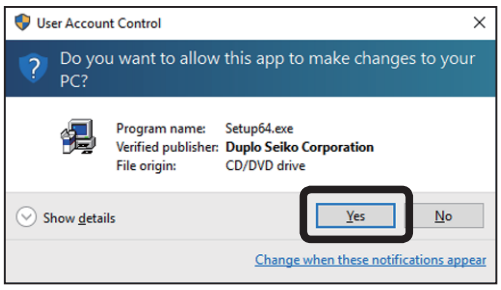
- TCP/IP or IPX/SPX protocols should be installed in advance.
- The following steps use Windows 10 screenshots. If you are using another Windows operating system, the screenshots vary.
- Some functions are not available under some operating systems.

Starting AdminManager

1 Click [Print Server Setup] in the main menu](“Setup Software” → see p.3) and click [Advanced Setup].



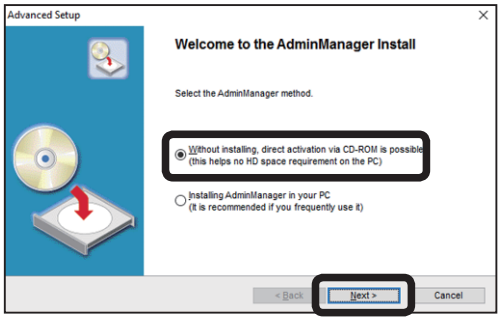
2 User account control message may appear while installation is in progress. Simply click [Yes] to proceed with the installation.



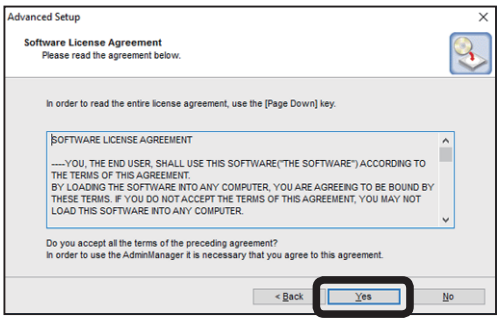
3 The install confirmation screen appears.
Select [Without installing, direct activation via CD-ROM is possible].
Click [Next].

REFERENCE

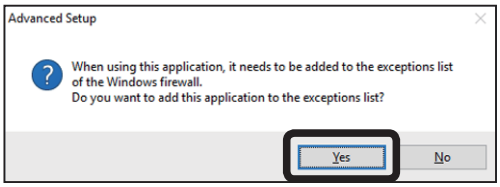
- It is recommended to select [Installing AdminManager in your PC] if you frequently use it.



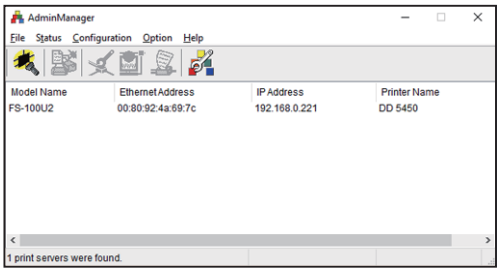
4 Read SOFTWARE LICENSE AGREEMENT. Click [Yes].



5 A prompting screen to register Printer Unit (NIC) Type D1 in the exceptions list of Windows Firewall appears. Click [Yes] and register Printer Unit (NIC) Type D1 in the exceptions list.



6 AdminManager starts.



Searching the Device with AdminManager

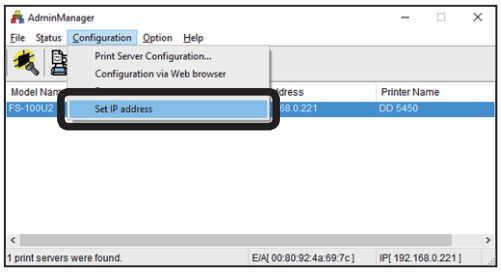
Confirm that AdminManager recognizes the device prior to the setup. If the device is not recognized, review the attaching procedure. (“Connecting Procedure” → see p.7)
If it is not still displayed, reset the device to factory default.(“Resetting to Default” → see p.8)

IP Address Configuration

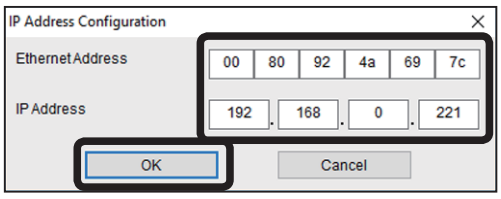
Setting IP address manually.:

- Prior to the setting, check the Ethernet address, which is printed on the back of this device. (Example: 00:80:92:4A:69:7C)

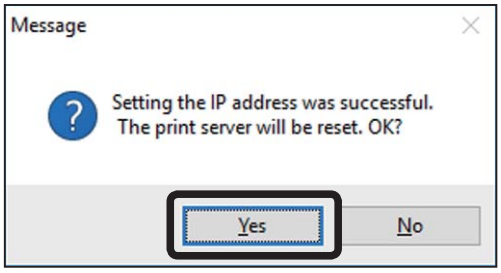
1. Select [Configuration] - [Set IP Address] from AdminManager menu and start the IP Address setup tool.



2. Enter the Ethernet address and IP address. Click [OK].



3. Reset the device to activate the IP address. Click [Yes].

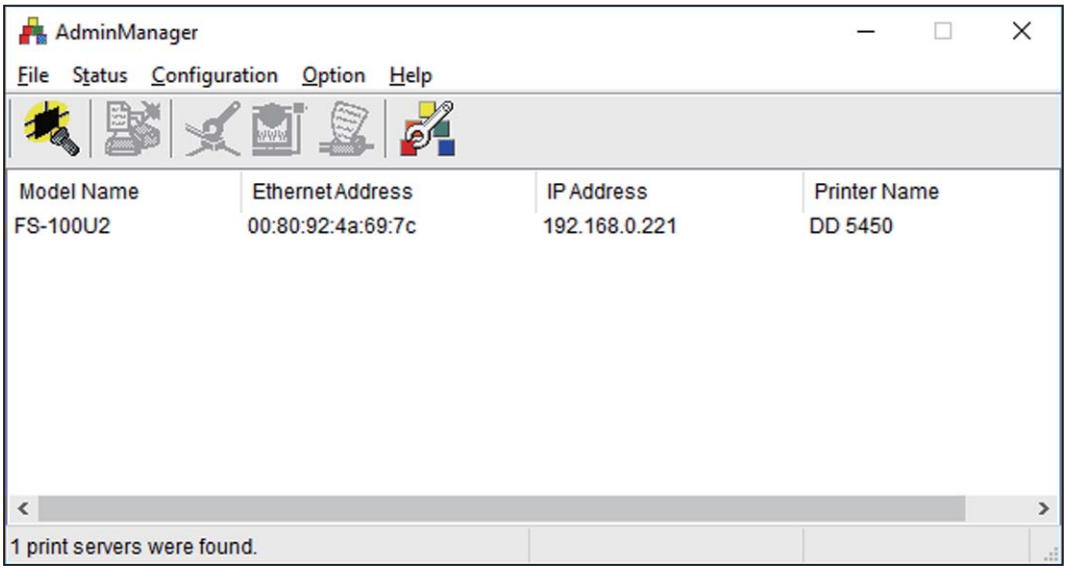


IMPORTANT

- AdminManager [Restart] may not function depending on the printer. In this case, restart the printer.

AdminManager Functions

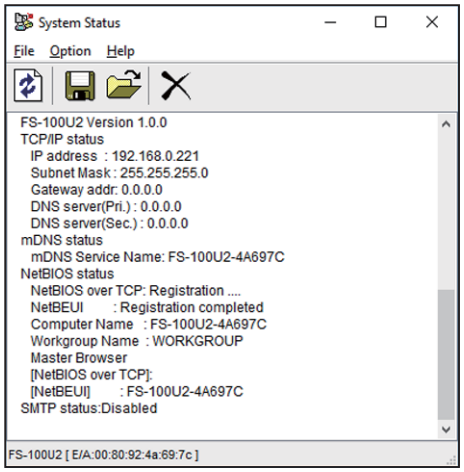
AdminManager Menu

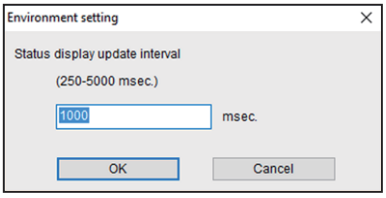


Menu	Item	Description
File	Search	Searches this device on the network.
	Exit	Exits AdminManager.
Status	System Status	Shows the system status monitor.
	Configuration Summary	Shows the configuration summary.
Configuration	Print Server Configuration	Various settings
	Configuration via Web browser	Starts the Web page.
	Restart	Restarts this device.
	Set IP address	IP Address manual setting
Option	Environment Setting	Sets AdminManager configuration.
Help	About	Shows version.

System status

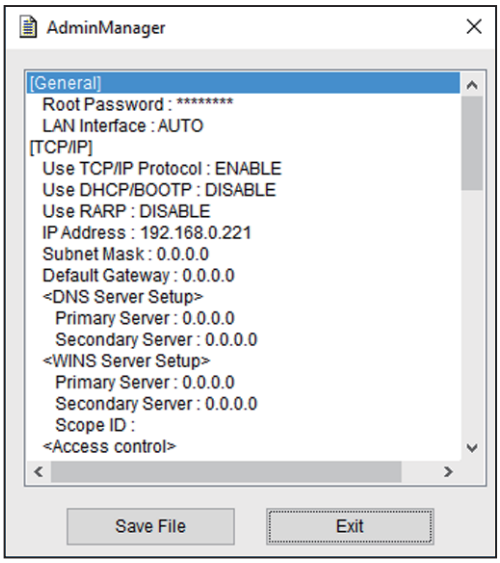
The system status is displayed in real time.
You can save the system status to the log file and use it as a reference. The update time can be set from [Option] - [Environment setting] in the menu.





Configuration Summary

The set values are displayed. You can print the list.

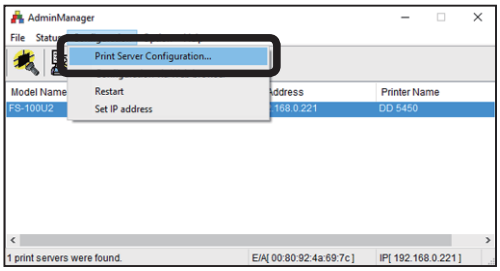


Setting with AdminManager

Print Server Setup

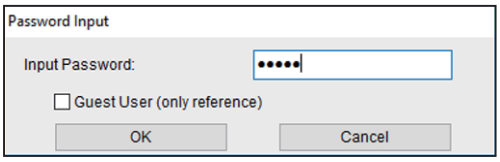
Change the settings or the advanced settings from [Configuration] - [Print Server Configuration].

1 Select the device and select [Configuration] - [Print Server Configuration] from the menu.



REFERENCE

- If the password is required, the Password Input screen appears.
- The information cannot be changed if you check the [Guest User] (only reference) check box.

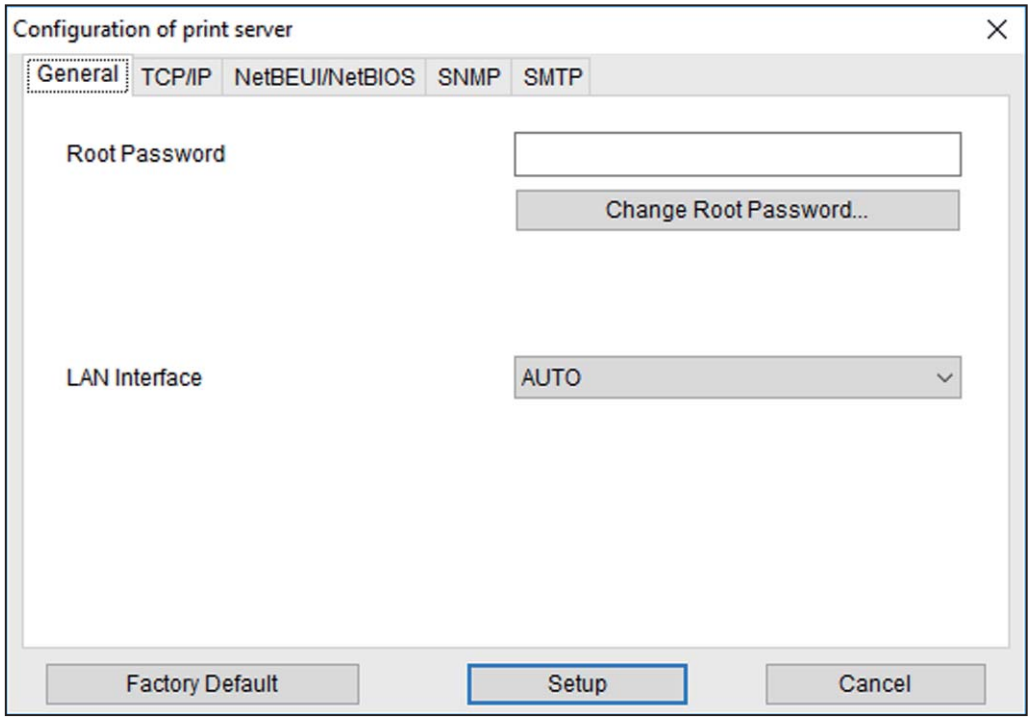


2 The [Configuration of Print Server] screen appears. Select the tab for setting.

REFERENCE

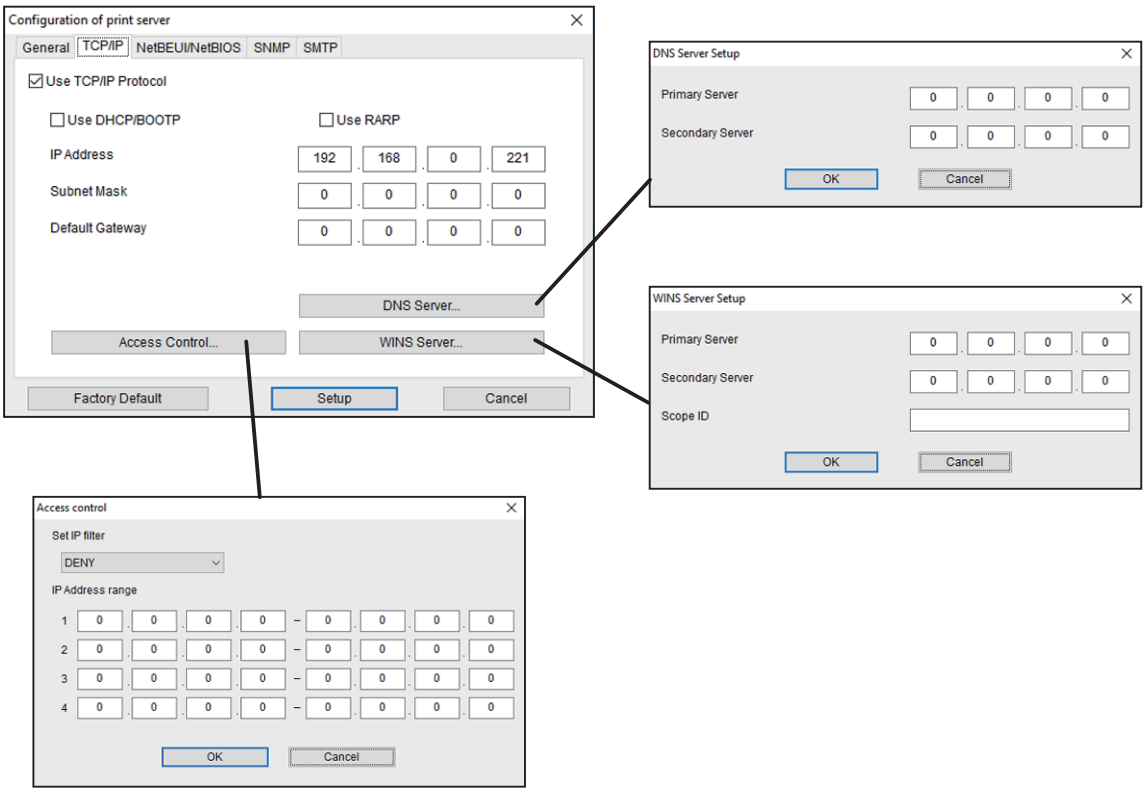
- Use the scroll button to show tabs if not displayed.

General



Item	Details	Default
Root Password	Sets the password in ASCII strings (within 7 characters). This is used as Authentication password for AdminManager and Web.	None
Change Root Password	Changes the password.	-
LAN Interface	Sets the physical network type. Use in AUTO normally. If LINK lamp on the hub does not light, change the setting to the network type of the hub.	AUTO

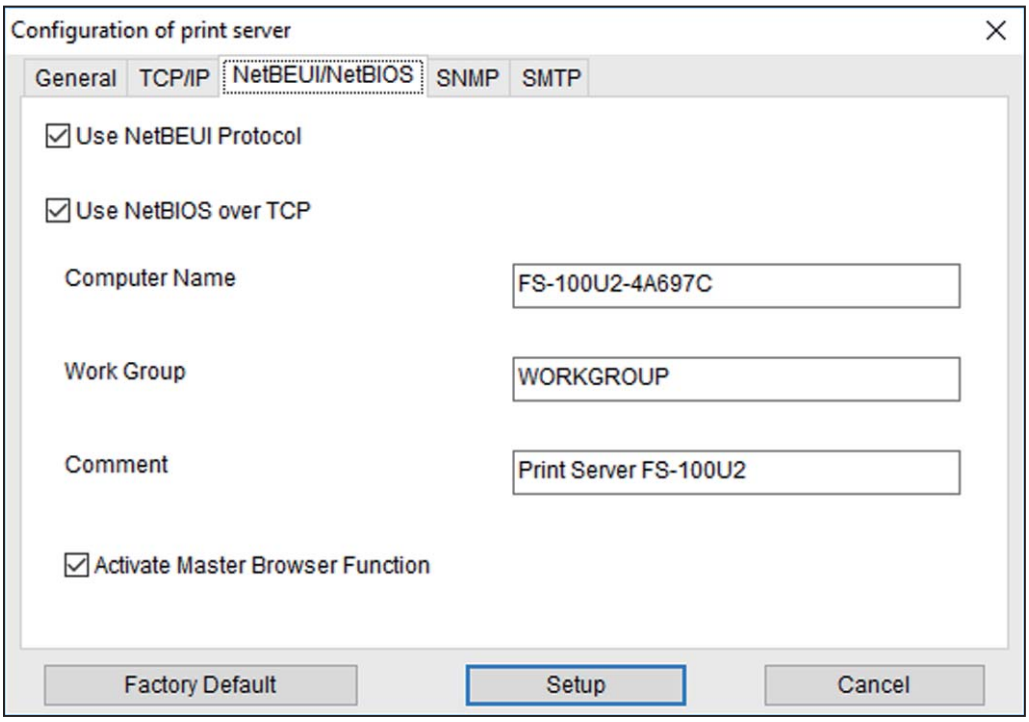
TCP/IP



Item	Details	Default
Use TCP/IP Protocol	Enables TCP/IP protocol.	ENABLE
Use DHCP/BOOTP	Enables DHCP/BOOTP protocol. Toggle between DHCP and BOOTP automatically and obtains an IP address.	ENABLE
Use RARP	Enables RARP protocol.	ENABLE
IP Address	Sets the IP address in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
Subnet Mask	Sets the Subnet Mask in the form “xxx.xxx.xxx.xxx“ (decimal). "0.0.0.0" is canceled, and the Subnet Mask complying with the IP address is automatically used.	0.0.0.0
Default Gateway	Sets the Default Gateway in the form “xxx.xxx.xxx.xxx“ (decimal). "0.0.0.0" is canceled.	0.0.0.0

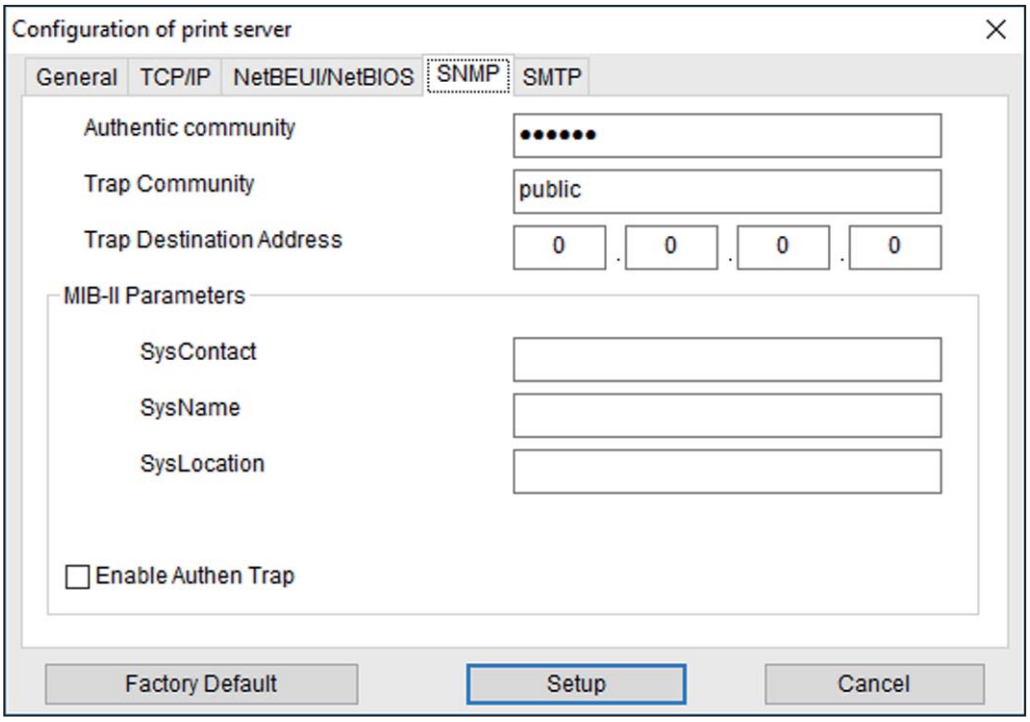
Item		Details	Default
DNS Server Setup	Primary Server	Sets DNS server (primary) address. Not required if you enter POP/SMTP server name (IP address). Enter in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
	Secondary Server	Sets DNS server (secondary) address. Not required if you set POP/SMTP server name (IP address). Enter in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
WINS Server Setup	Primary Server	Sets WINS server (primary) address. WINS server assigns a host name to IP address. This allows TCP/IP printing with a host name. Enter the address in the form “xxx.xxx.xxx.xxx" (decimal).	0.0.0.0
	Secondary Server	Sets WINS server (secondary) address. WINS server assigns the host name to IP address. This allows TCP/IP printing with a host name. Enter the address in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
	Scope ID	Defines the computer group, which recognizes the registered host name.	None
Access Control	Set IP filter	Sets IP filter operation. ALLOW: Allows the data from the specified IP address. DENY: Denies the data from the specified IP addresses.	DENY
	IP Address range	Sets the range up to 4 groups. When not specified, set the range "0.0.0.0" to "0.0.0.0".	0.0.0.0

NetBEUI/NetBIOS



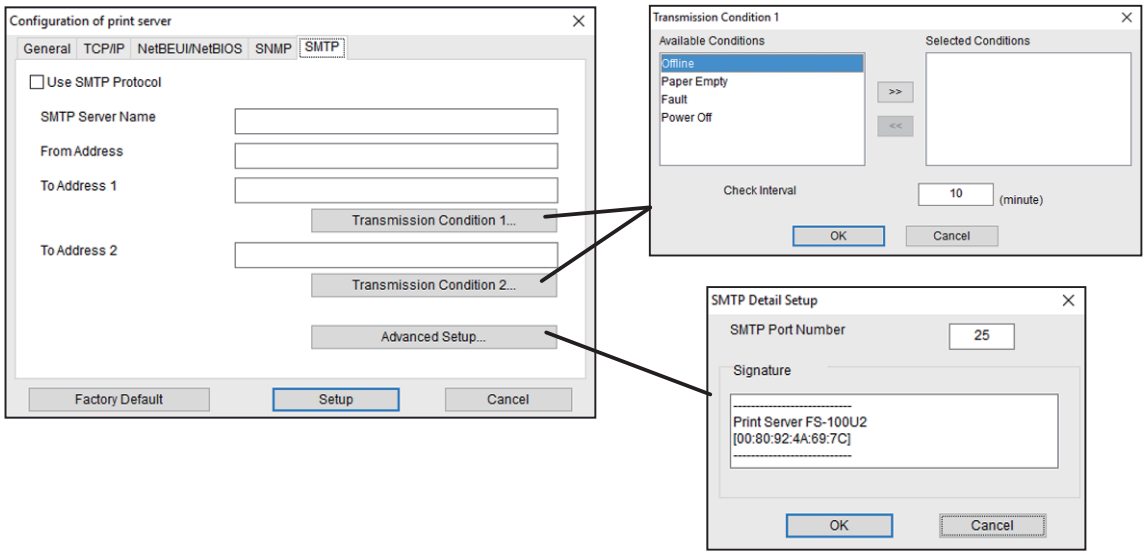
Item	Details	Default
Use NetBEUI protocol	Enables NetBEUI.	ENABLE
Use NetBIOS over TCP/IP protocol	Enables NetBIOS over TCP/IP protocol.	ENABLE
Computer Name	Sets the computer name.	FS-100x-xxxxxx (Ethernet address: last 6 digits)
Work Group	Sets the work group. New names are not recognized if not existing on the network.	WORKGROUP
Comment	Sets the comment of the device, which is displayed in Windows explorer.	Print Server XXXXX (Device name)
Activate Master Browser Function	Enables the function that opens the Web page of this product via Web browser. (“Setting via Web Browser” → see p.77)	ENABLE

SNMP



Item		Details	Default
Authentic community		Sets Authentic community name. This is used when accepting the SNMP Set Request.	public
Trap Community		Sets Trap community. Used when Trap is sent.	public
Trap Destination Address		Sets Trap Destination Address. Enter the address in doted decimal notation “xxx.xxx.xxx.xxx ". "0.0.0.0" disables Trap.	0.0.0.0
MIB-II Parameters	SysContact	Sets SysContact. Administrator's address is used normally.	None
	SysName	Sets SysName. Host name or domain name is used normally.	None
	SysLocation	Sets SysLocation. The location of the device is used normally.	None
	Enable Authen Trap	Enables EnableAuthenTrap. SNMP Trap is sent to IP address set as "Trap Destination Address" when the community violation occurs.	ENABLE

SMTP



Item			Details	Default
Use SMTP Protocol			Enables SMTP Protocol. If set to disable, E-mail transmission is canceled.	DISABLE
SMTP Server Name			Sets domain name or IP address as host name. DNS server setup is required if domain name is used.	None
From Address			Sets the sender address. Network Administrator's mail address is used normally.	None
To Address(1-2)			Sets the recipient address.	None
Transmission Condition 1-2	Selected Conditions	Off line	Send a mail when the printer enters off line.	OFF
		Paper Empty	Send a mail when the printer runs out of paper.	OFF
		Power Off	Send a mail when the printer is turned off.	OFF
	Check interval		Checks the event log at the specified intervals (by minute). The list will be sent if more than 1 event occurs.	10

Item		Details	Default
SMTP Details Setup	SMTP Port Number	Sets the port number. Use default (25).	25
	Signature	Sets the text, which is attached to the end of the messages.	---------- Print Server XXXXX [00:80:92:XX:XX:XX] ---------- (Device name and the last 6 digits of the Ethernet address.)

Setting via Web Browser

You can use Web browser for advanced setting and setting change. Remote restart and Printer status monitor are accessible functions.

IMPORTANT

- You should enable TCP/IP protocol and set the IP address in advance.
- Display may vary depending on the browser.

REFERENCE

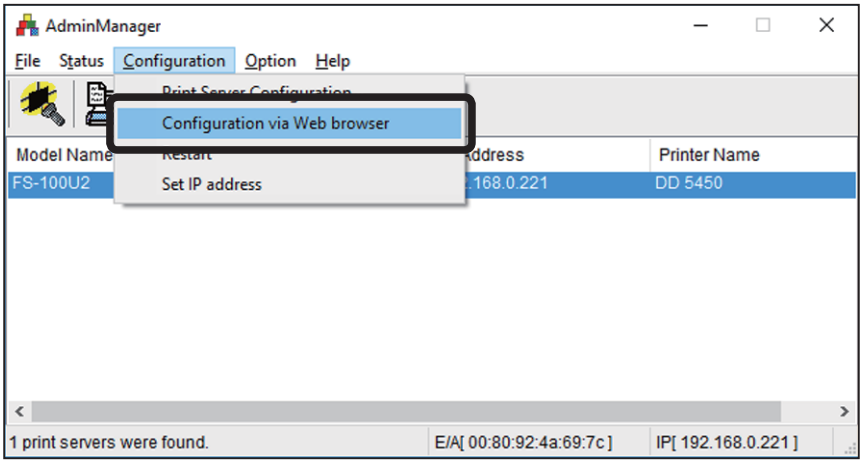
- Click [Japanese >>] or [English >>] to select the language.

Opening the Web Page

There are 2 methods to open the Web page for setup.

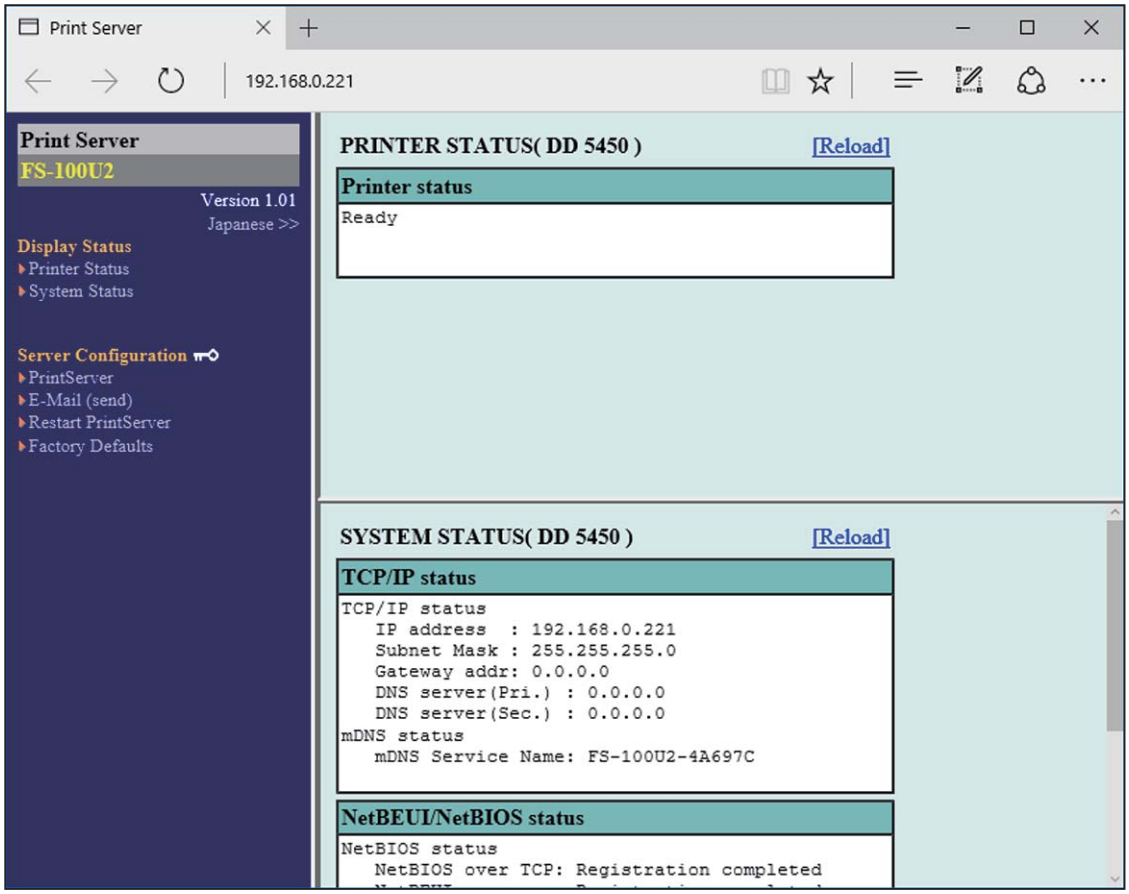
Opening the Web page from AdminManager

Select the device from the list. Click [Configuration] and click [Configuration via Web browser].



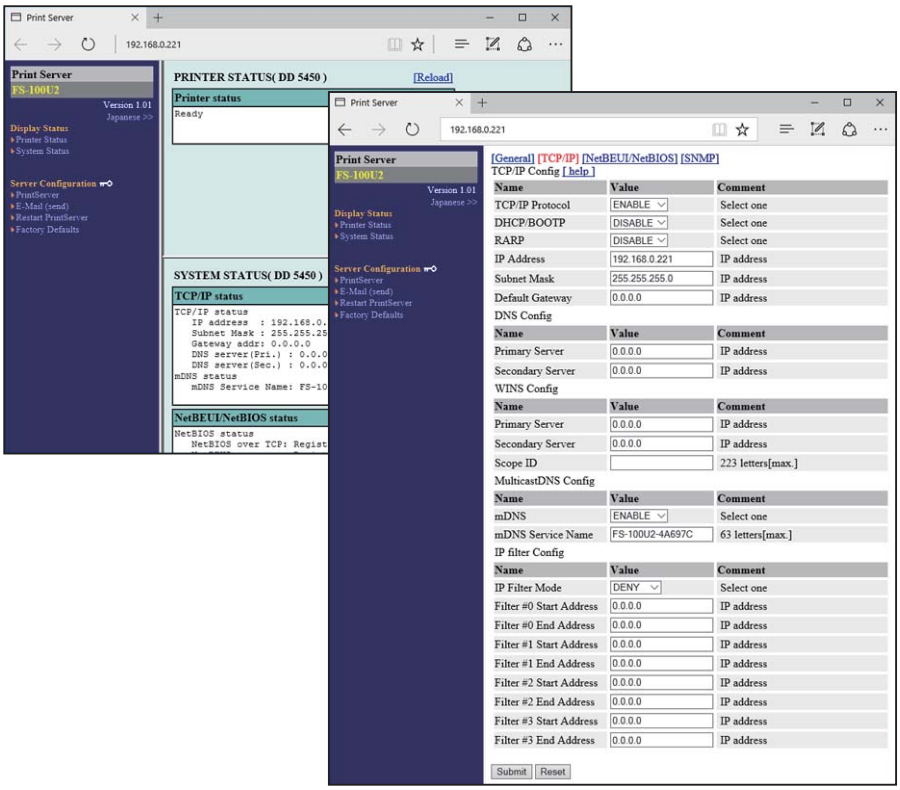
Opening the Web page from Web browser

Enter the IP address in Web browser.
Example: When IP address is 192.168.0.221
http://192.168.0.221/



Setting from the Web Page

Click the desired item to open the setup screen. Enter values.



Setting from the Web page

Item		Description
Display Status	Printer Status	Shows printer status.
	System Status	Shows system status.
Sever Configuration	Print Server	Various settings
	E-Mail (send)	Sets E-Mail (send).
	Restart Print Sever	Restarts this device.
	Factory Defaults	Restores the factory defaults.

Web Browser Setup Items

General

Item Web browser	Details	Default
Change root Password	Sets the password in ASCII strings (within 7 characters). This is used as Authentication password for AdminManager and Web.	None
LAN Interface	Sets the physical network type. Use in AUTO normally. If LINK lamp on the hub does not light, change the setting to the network type of the connected hub.	AUTO

TCP/IP

Item Web browser	Details	Default
TCP/IP Protocol	Enables TCP/IP protocol.	ENABLE
DHCP/BOOTP	Enables DHCP/BOOTP protocol. Toggle between DHCP and BOOTP automatically and obtains an IP address.	ENABLE
RARP	Enables RARP protocol.	ENABLE
IP Address	Sets the IP address in the form “xxx.xxx.xxx.xxx" (decimal).	0.0.0.0
Subnet Mask	Sets the Subnet Mask in the form “xxx.xxx.xxx.xxx“ (decimal). "0.0.0.0" is canceled, and the Subnet Mask complying with the IP address is automatically used.	0.0.0.0
Default Gateway	Sets the Default Gateway in the form “xxx.xxx.xxx.xxx“ (decimal). "0.0.0.0" is canceled	0.0.0.0

Item Web browser	Details	Default
DNS		
Primary Server	Sets DNS server (primary) address. Not required if you set POP/SMTP server name (IP address). Enter in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
Secondary Server	Sets DNS server (secondary) address. Not required if you set POP/SMTP server name (IP address). Enter in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
WINS		
Primary Server	Sets WINS server (primary) address. WINS server assigns the host name to IP address. This allows TCP/IP printing with host name. Enter the address in the form “xxx.xxx.xxx.xxx“ (decimal).	0.0.0.0
Secondary Server	Sets WINS server (secondary) address. WINS server assigns the host name to IP address. This allows TCP/IP printing with a host name. Enter the address in the form "xxx.xxx.xxx.xxx" (decimal).	0.0.0.0
Scope ID	Defines the computer group, which recognizes the registered host name.	None
Multicast DNS Config		
mDNS	Enables Multicast DNS.	ENABLE
mDNS Service Name	Sets appropriate mDNS server name. Make sure that there is no overlaps in other devices.	FS-100x-xxxxxx (Ethernet address: last 6 digits)
IP Filter		
Filter Mode	Sets IP filter operation. ALLOW: Allows the data from the specified IP address. DENY: Denies the data from the specified IP addresses.	DENY
Filter #0-3Start Address - End Address	Sets the range up to 4 groups. When not specified, set the range "0.0.0.0" to "0.0.0.0".	0.0.0.0

NetBEUI/ NetBIOS

Item Web browser	Details	Default
NetBEUI Protocol	Enables NetBEUI.	ENABLE
NetBIOS over TCP	Enables NetBIOS over TCP/IP protocol.	ENABLE
Computer Name	Sets the computer name.	FS-100x-xxxxxx (Ethernet address: last 6 digits)
Workgroup	Sets the work group. New names are not recognized if not existing on the network.	WORKGROUP
Comment	Sets the comment of the device, which is displayed in Windows explorer.	Print Server XXXXX (Device name)
BrowseMaster	Enables the function that open the Web page of this product via Web browser. (“Setting via Web Browser” → see p.77)	ENABLE

SNMP

Item Web browser	Details	Default
Authentic Community	Sets Authentic community name. This is used when accepting the SNMP Set Request.	public
Trap Community	Sets Trap community. Used when Trap is sent.	public
Trap Address(IP)	Sets Trap Destination Address. Enter the address in dotted decimal notation "xxx.xxx.xxx.xxx". “0.0.0.0" disables Trap.	0.0.0.0
SysContact	Sets SysContact. Administrator's address is used normally.	None
SysName	Sets SysName. Host name or domain name is used normally.	None
SysLocation	Sets SysLocation. The location of the device is used normally.	None
EnableAuthenTrap	Enables EnableAuthenTrap. SNMP Trap is sent to IP address set as "Trap Destination Address" when the community violation occurs.	2

E-Mail transmission (SMTP)

Item Web browser		Details	Default
SMTP Protocol		Enables SMTP Protocol. If set to disable, E-mail transmission is canceled.	DISABLE
SMTP Server Name		Sets domain name or IP address as host name. DNS Server setup is required if domain name is used.	None
SMTP Port Number		Sets the port number. Use default (25).	25
From Address		Sets the sender address. Network Administrator's mail address is used normally.	None
Signature Line (1-4)		Sets the text, which is attached to the end of messages.	---------- FS-100x-XXXXX [00:80:92:XX:XX:XX] ---------- (Device name and the last 6 digits of the Ethernet address.)
Send Address(1-2)		Sets conditions of Send Address (1-2).	-
To Address (1-2)		Sets the recipient address.	None
Transmission Condition	Check Interval (min.)	Checks the event log at the specified intervals (by minute). The list will be sent if more than 1 event occurs.	10
	Offline	Send a mail when the printer enters off line.	OFF
	Paper Empty	Send a mail when the printer runs out of paper.	OFF
	Fault	Sends a mail when the printer malfunctions.	-
	Power Off	Sends a mail when the printer malfunctions.	OFF

Chapter 7

Software Uninstallation

This chapter describes the uninstallation procedure for the Printer Driver on computers.

Uninstalling the Printer Driver 86
Windows 7/Windows 8/Windows 8.1/Windows 10 86
Windows Vista 90

Uninstalling the Printer Driver

The following describes the procedure for uninstalling the printer driver.

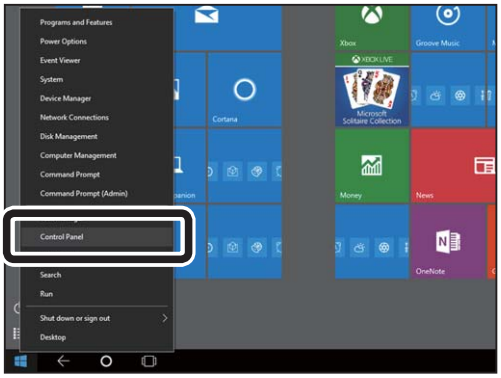
Windows 7/Windows 8/Windows 8.1/Windows 10

IMPORTANT

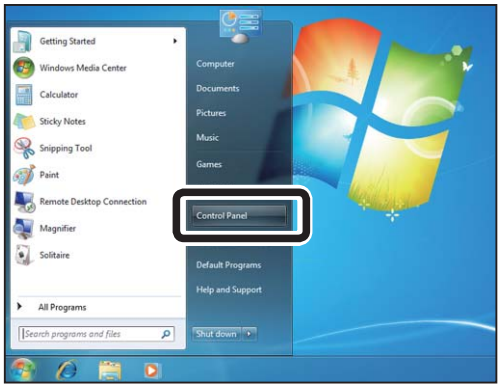
- If you are requested to enter password of administrator account during uninstallation of the printer driver, enter the password of the user with administrative rights shown.

1 Open [Control Panel].

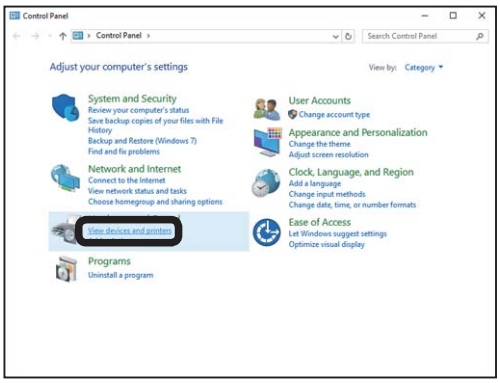
- **Windows 8/Windows 8.1/Windows 10**
  Move the mouse cursor to the lower-left corner of the screen and right-click the start button.
  Click [Control Panel] on the menu.



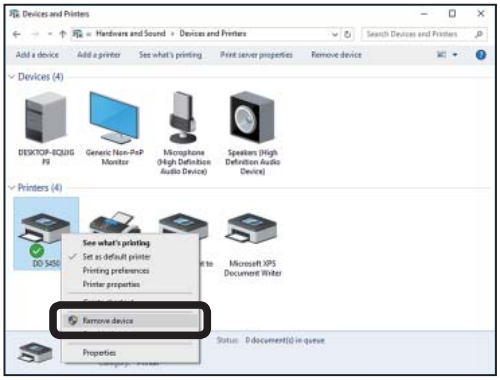
- **Windows 7**
  Click the [Start] button on the task bar and click [Control Panel] on the menu.



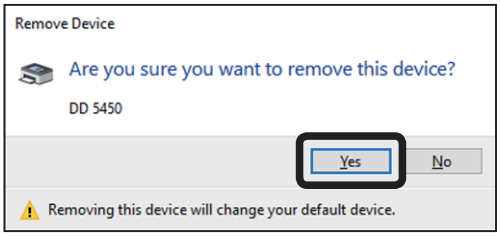
2 Click [View devices and printers] under the [Hardware and Sound] menu.



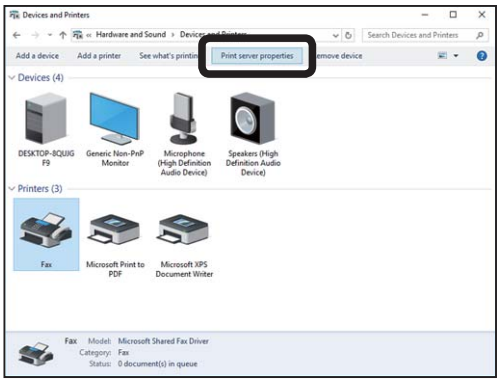
3 Select and right-click the Digital Duplicator. Then click [Remove device] from the menu.



4 The [Remove Device] dialog box appears. Click the [Yes] button.



5 Click [Print server properties].
* When not displayed, click other printer icon.



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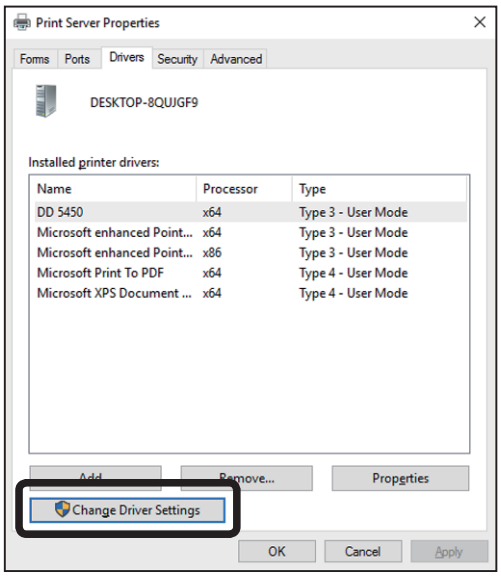
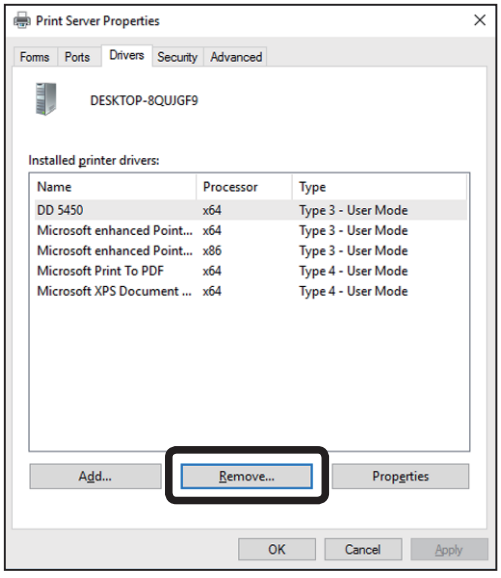
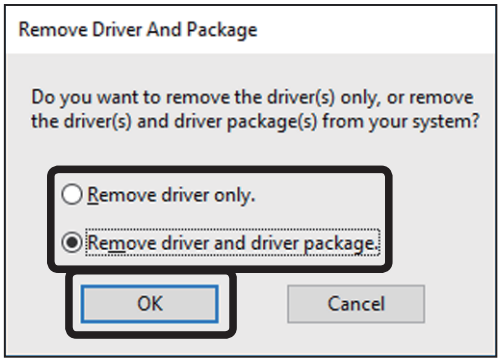
6 Click the [Drivers] tab in the [Print Server Properties] dialog box.
Click the [Change Driver Settings] button.



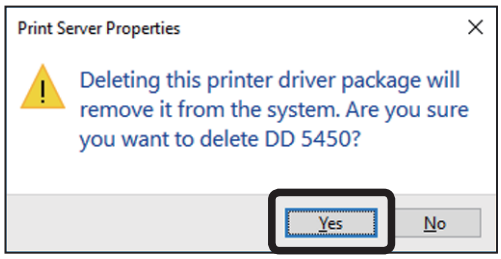
7 Select Digital Duplicator and click the [Remove] button.



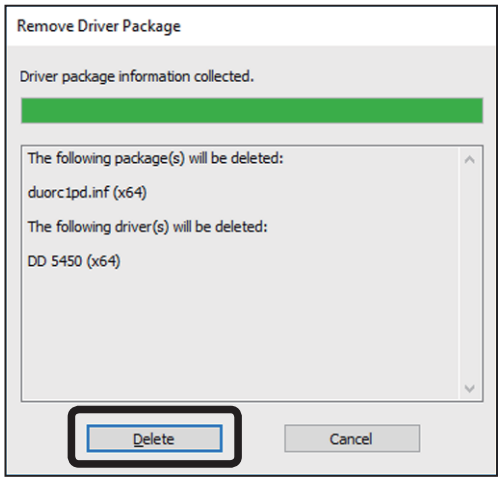
8 The [Remove Driver And Package] dialog box appears.
Select [Remove driver and driver package] and click the [OK] button.



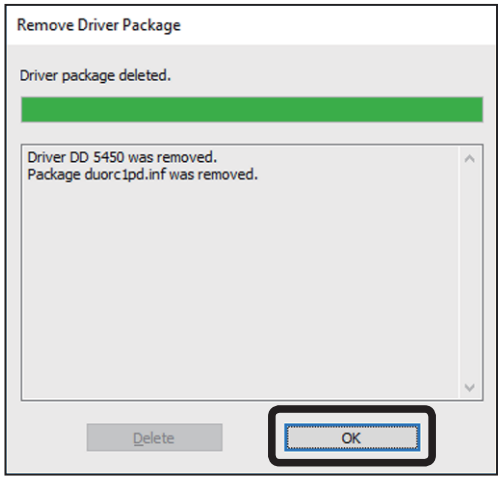
9 The [Print Server Properties] dialog box appears.
Click the [Yes] button.



10 The [Remove Driver Package] dialog box appears.
Click the [Delete] button.



11 Once the message [Driver package deleted.] appears, uninstallation of the printer driver is complete.
Click the [OK] button.

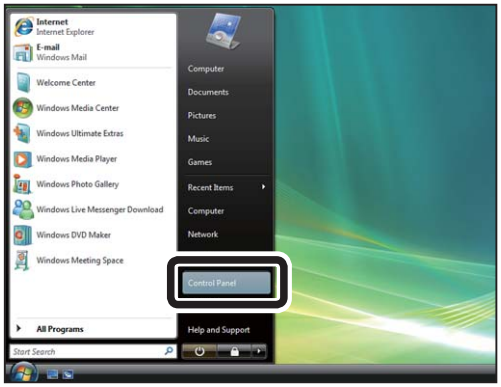


Windows Vista

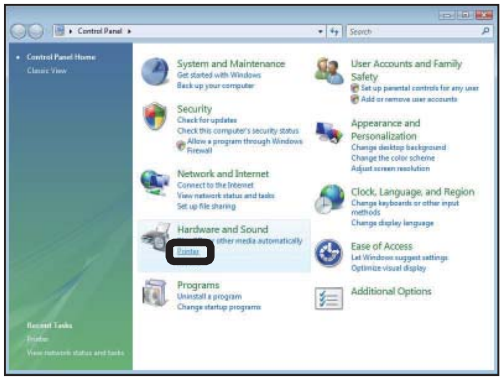
IMPORTANT

- If you are requested to enter password of administrator account during uninstallation of the printer driver on Windows Vista, enter the password of the user with administrative rights shown.

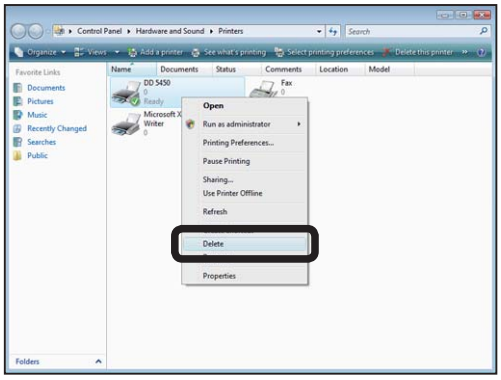
1 Click the [Start] button on the task bar and click [Control Panel] on the menu.



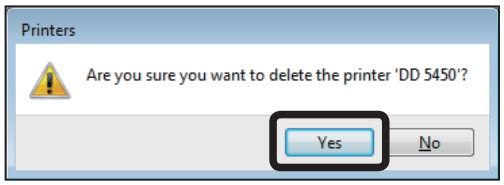
2 Click [Printer] under the [Hardware and Sound] menu.



3 Select and right-click the Digital Duplicator, and click [Delete] from the menu.



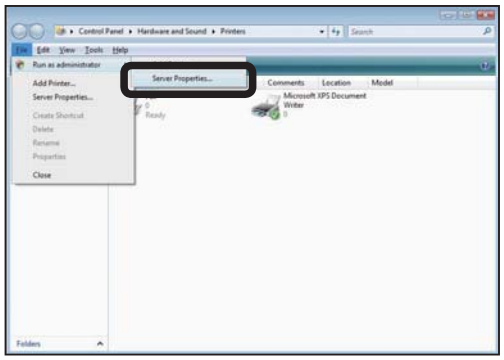
4 The [Printers] dialog box appears.
Click the [Yes] button.
* If the Digital Duplicator is set to [The default printer], a message that the default device has been changed will appear. Confirm the message and click [Close].



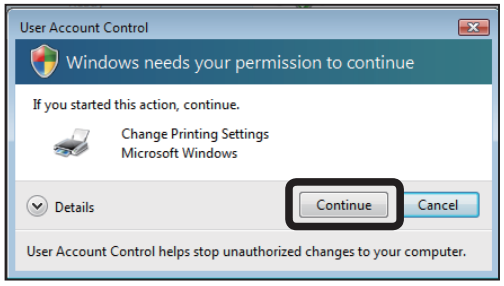
5 Select [File] - [Run as administrator] - [Server Properties] from the menu bar.

REFERENCE

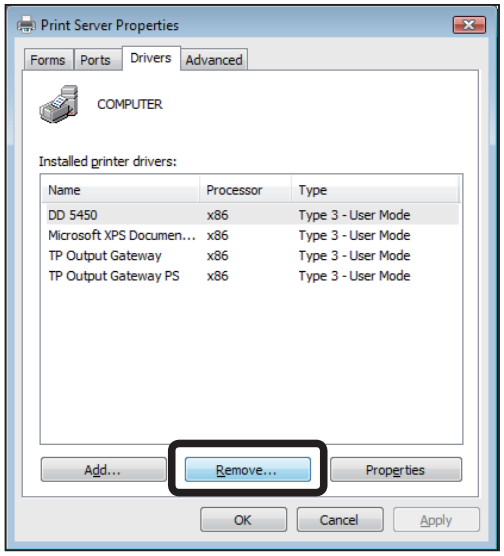
• When the menu bar is not displayed, it can appear temporarily by pressing the Alt key.



6 The [User Account Control] dialog box appears.
Click the [Continue] button.



7 Click the [Drivers] tab in the [Print Server Property] dialog box.
Select Digital Duplicator and click the [Remove] button.



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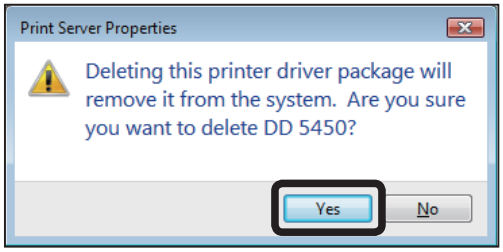
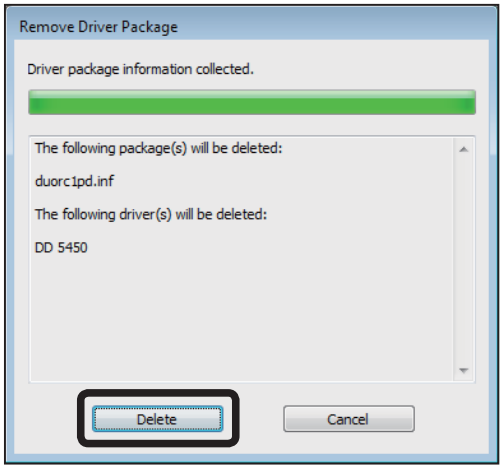
8 The [Remove Driver And Package] dialog box appears.
Select [Remove driver and driver package] and click the [OK] button.

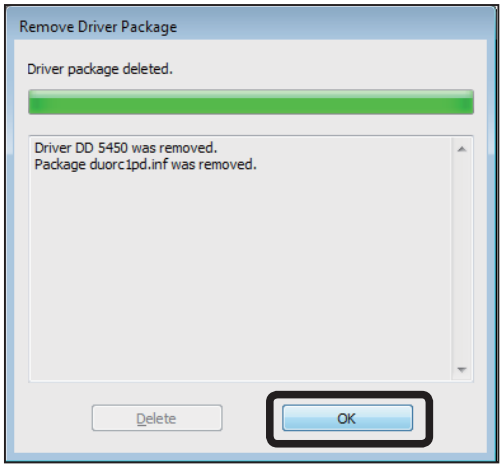
9 The [Print Server Properties] dialog box appears.
Click the [Yes] button.



10 The [Remove Driver Package] dialog box appears.
Click the [Delete] button.



11 Once the message [Driver package deleted.] appears, uninstallation of the printer driver is complete.
Click the [OK] button.



Chapter 8

Specifications

This chapter lists the specifications of Printer Unit (NIC) Type D1.

Printer Unit (NIC) Type D1 Hardware Specifications 94
Printer Unit (NIC) Type D1 Software Specifications 95
Printer Driver Requirements 96

Printer Unit (NIC) Type D1 Hardware Specifications

• Printer Unit (NIC) Type D1

Operating conditions	Temperature : 0°C - +35°C Humidity : 20% - 80%RH (no condensation)
Storage conditions	Temperature : -10°C - +50°C Humidity : 20% - 90%RH (no condensation)
Network interface	10BASE-T/100BASE-TX/1000BASE-T (auto switching) : 1 port
Dimensions	99 (W) × 67 (H) × 30.2 (D) (mm) (excluding rubber feet)
Printer interface	USB 2.0 Hi-Speed (type A): 2 ports
Power source	DC5V AC adoptor supplied with Printer Unit (NIC) Type D1 (AC 100 V, 50/60 Hz)
Max. power consumption	2.5 W (DC 5 V 0.5 A), Excluding USB bus power

Printer Unit (NIC) Type D1 Software Specifications

Compatible protocol	• TCP/IP Raw(9100) Port, LPD, FTP, IPP, HTTP, TELNET, DHCP, BOOTP, SNMP, SMTP, DNS, DDNS, WINS, TCP, UDP, ARP, RARP, IP, ICMP, NetBIOS over TCP
Compatible OS	Windows Vista (32bit/64bit) Windows 7(32bit/64bit) Windows 8(32bit/64bit) *1 Windows 8.1(32bit/64bit) *1 Windows 10(32bit/64bit) *1 *1 Desktop apps only

Printer Driver Requirements

Operating System	Windows Vista (32bit/64bit) Windows 7 (32bit/64bit) Windows 8(32bit/64bit) *1 Windows 8.1(32bit/64bit) *1 Windows 10(32bit/64bit) *1 *1 desktop apps only

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