

TOSHIBA

MULTIFUNCTIONAL DIGITAL SYSTEMS

Software Installation Guide

e-STUDIO2822AM/2822AF

e-STUDIO2329A/2829A

Preface

Thank you for purchasing Toshiba Multifunctional Digital Systems. This manual explains how to install client software. Read this manual before use. Keep this manual within easy reach, and use it to configure an environment that makes best use of the e-STUDIO's functions.

■ How to read this manual

□ Symbols in this manual

In this manual, some important items are described with the symbols shown below. Be sure to read these items before using this equipment.

 **WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury, or serious damage, or fire in the equipment or surrounding objects.

 **CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, partial damage to the equipment or surrounding objects, or loss of data.

 **Note** Indicates information to which you should pay attention when operating the equipment.

 **Tip** Describes handy information that is useful to know when operating the equipment.

 Pages describing items related to what you are currently doing. See these pages as required.

□ Screens and Operation Procedures

In this manual, the screens and the operation procedures in Windows are described for Windows 10. The details on the screens may differ depending on how the equipment is used, such as the status of the installed options, the OS version and the applications.

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BEFORE INSTALLATION

Before you start the installation, refer to the following pages according to the operating system that you use.

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Before Installing the Software in Windows

Refer to the following pages to install the software in Windows:

- 📖 P.10 “Software on the Client Utilities/User Documentation DVD”
- 📖 P.10 “System requirements”
- 📖 P.13 “Connection Environment”
- 📖 P.34 “Configuring the Printer Using CUPS”

■ Software on the Client Utilities/User Documentation DVD

- **Printer driver**

Allows you to use this equipment as a printer when it is connected to a Windows computer.

- PCL6 Printer 2 driver - You can use this depending on the purposes of the applications in various usages.
- PS3 printer driver* - This printer driver is suitable for printing from a general application, such as a DTP application supporting PostScript.
- XPS printer driver - This printer driver is suitable for printing from a Windows Presentation Foundation (WPF) application.

* To use the PS3 printer driver, the PostScript Kit option needs to be installed in the equipment.

- **Scanner driver**

Allows you to scan the originals set in this equipment remotely from your Windows computer and send the image to a TWAIN-compliant application.

- **e-STUDIO Scan Editor**

Allows you to scan the original set in this equipment from your Windows computer and edit the scanned images simply.

- **N/W Fax driver**

Allows you to send electronic documents from your Windows computer to one or more destinations.

Tip

The N/W-Fax driver is not available for e-STUDIO2822AM.

■ System requirements

- **CPU**

1 GHz minimum (1 GHz or faster recommended)

- **Memory**

32-bit processor

- 1 GB (2 GB recommended)

64-bit processor

- 2 GB (4 GB recommended)

- **Interface**

USB 2.0 (Hi-Speed)

- **OS**

Windows 7 SP1

Windows 8.1

Windows 10

Windows Server 2008 SP2

Windows Server 2008 R2 SP1

Windows Server 2012

Windows Server 2012 R2

Windows Server 2016

Before Installing the Software in macOS

Refer to following pages to install the software and configure the printer in macOS:

- 📖 P.11 “About the PPD file”
- 📖 P.11 “System requirements”
- 📖 P.13 “Connection Environment”
- 📖 P.34 “Configuring the Printer Using CUPS”

■ About the PPD file

You need to install an exclusive PPD file (PostScript Printer Description file) in macOS to print with the equipment. This file contains information about controller-specific features of the equipment.

■ System requirements

To install the PPD file in macOS and print with the equipment, the following environment is required.

- **CPU**
1 GHz minimum (1 GHz or faster recommended)
- **Memory**
32-bit processor
 - 2 GB64-bit processor
 - 2 GB (4 GB recommended)
- **Display resolution**
1028 x 768 dots or more
- **OS**
OS X 10.11 to macOS 10.14
- **Protocol**
TCP/IP

Before Installing the Software in UNIX/Linux

Refer to following pages to install the software and configure the printer in UNIX/Linux:

📖 P.12 “About CUPS”

📖 P.12 “System requirements”

📖 P.13 “Connection Environment”

📖 P.34 “Configuring the Printer Using CUPS”

■ About CUPS

When you configure the printer in UNIX/Linux using CUPS, you can use LPR printing or IPP printing. This guide describes the behavior, options, and installation method of the CUPS printer driver for the equipment. The behavior of the printer driver presented in this manual is consistent with CUPS v1.2.4. The driver may appear and/or operate slightly differently in different versions. In the CUPS environment, you use a PostScript Printer Description (PPD) file, not a printer driver to configure the printing. The PPD file is included in this package.

■ System requirements

Development Environment

The supported UNIX/Linux environment is as follows.

OS:

Redhat Enterprise 5.10.x, 6.5.x, 7.4.x

Fedora Ver.27

Open SuSE Leap 42.3

Bharat Operating System 6.x

CUPS:

1.2.4

Implementation Method

This driver consists of a PPD file that works in conjunction with an interface like XPP, KPrinter, etc. It can also be used on OSX in the same way that it is used on Linux, but this is not recommended.

Connection Environment

A USB connection or network connection is available.

📖 P.13 “USB connection”

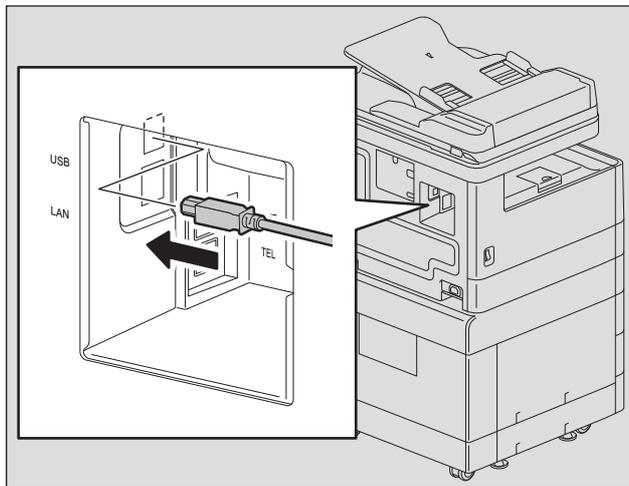
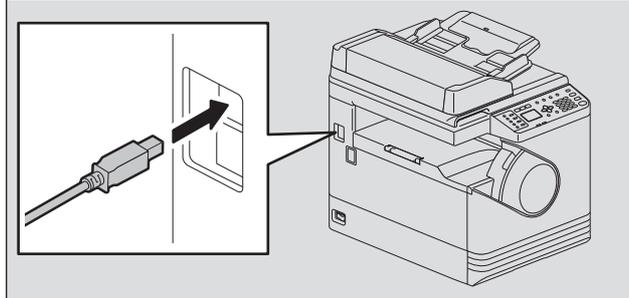
📖 P.14 “Network connection”

1

BEFORE INSTALLATION

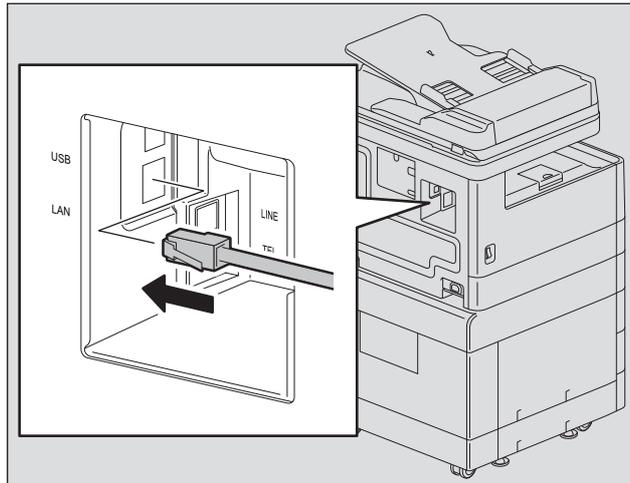
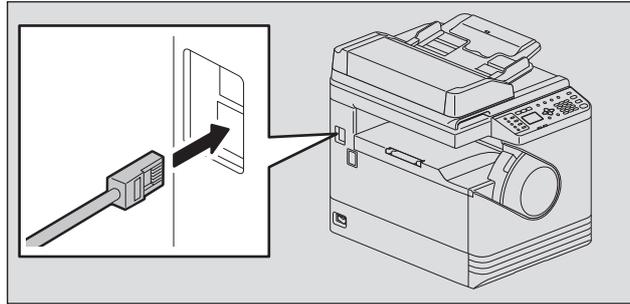
■ USB connection

Before installing the drivers, connect the equipment and the computer with a USB cable, and turn on the equipment.



■ Network connection

Before installing the drivers, connect the equipment to the network, and then turn on the equipment.



INSTALLATION IN WINDOWS

This chapter explains the installation in Windows.

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Installing the Drivers in Windows

This section describes how to install the printer, scanner, and N/W Fax drivers in Windows. Installing the drivers requires the administrator authority.

Install the drivers using the installer or the Windows Plug and Play function.

📖 P.16 “Installing the drivers using the installer”

📖 P.18 “Installing the drivers using Plug and Play”

Note

- Close any running software, such as an antivirus program, before installing the drivers.
- For Windows 7, Windows 8.1, Windows 10, Windows Server 2008 R2, Windows Server 2012, or Windows Server 2016, use the installer to install the drivers. The Windows Plug and Play function cannot install them.
📖 P.16 “Installing the drivers using the installer”
- When you are using Windows Server 2008 or Windows Server 2012, install [Desktop Experience] from [Server Manager] of [Administrative Tools] before you install the scanner driver.

■ Installing the drivers using the installer

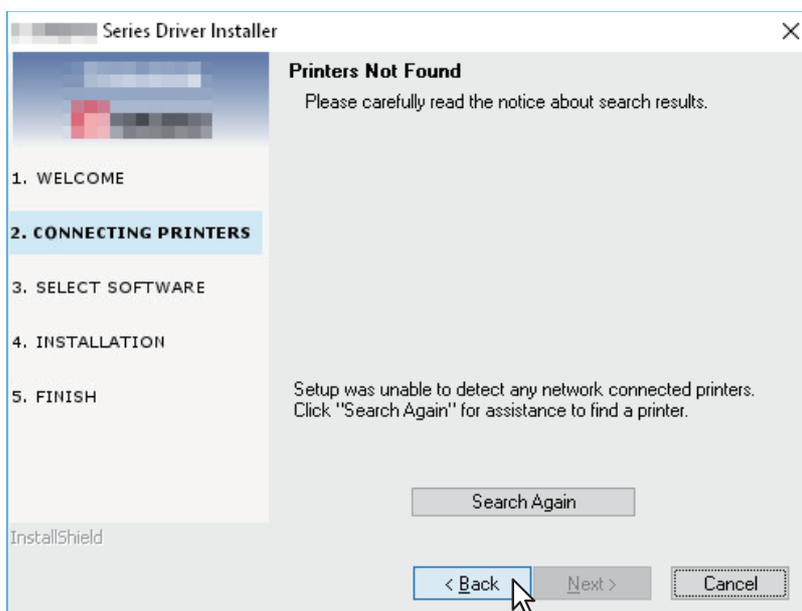
- 1 Make sure that the equipment is turned on.**
- 2 Insert the Client Utilities/User Documentation DVD into your computer.**
 - The installer automatically starts and opens the installation dialog box.
 - If the installer does not automatically start, open the “Drivers” folder and double-click “Setup.exe” in the DVD.
- 3 Select “I accept the terms of the license agreement” and click [Next].**
- 4 Select [USB Connection] or [Network Connection], and then click [Next].**
- 5 Make sure that the equipment has been connected to the computer or the network and click [Next].**

If you have selected [USB Connection] at the previous step, proceed to step 7.
- 6 Check the detected printer, select the model and click [Next].**

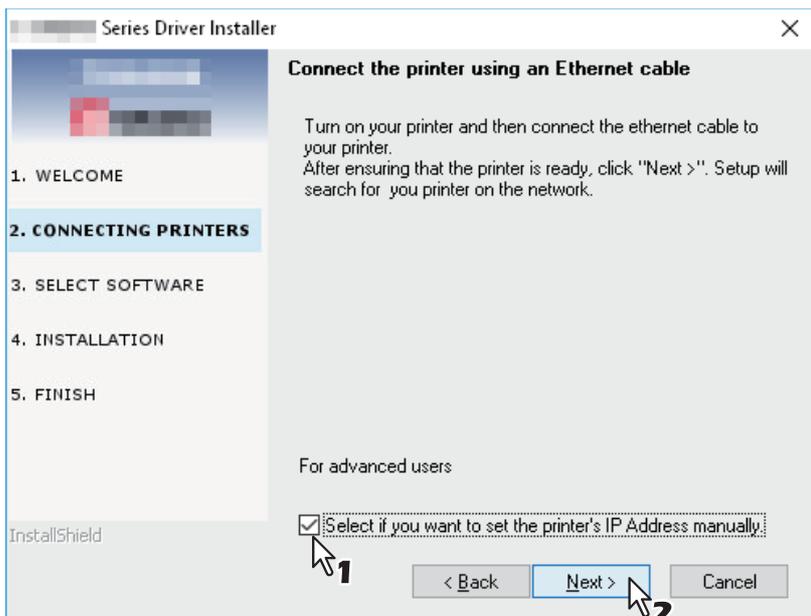
Note

If the equipment is not discovered over the network, specify the IP address manually following the steps below. For the IP address of the equipment, refer to *User's Guide* “**Chapter 6: VARIOUS FUNCTIONS - Network Menu List - Setting the TCP/IP protocol**”.

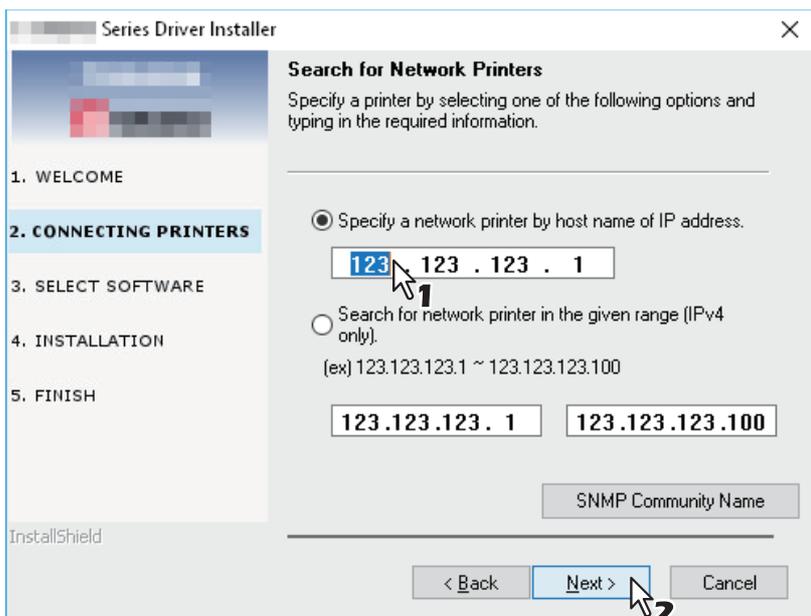
1. Click [Back].



2. Select [Select if you want to set the printer's IP Address manually.], and then click [Next].



3. Enter the IP address of the equipment under [Specify a network printer by host name of IP address.], then click [Next].



7 Check the model and the software to install and click [Next].

Note

The option to select the model name is not displayed depending on the model used.

8 Click [Finish] when the installation is complete.

To install e-STUDIO Scan Editor, open the [Application] - [e-STUDIO Scan Editor] folders, double-click “eSScanSetup.exe”, and follow the instructions that appear on the screen. After the installation, remove the DVD from the computer.

Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” to restart your computer.

■ Installing the drivers using Plug and Play

You can use the Windows Plug and Play function to install the drivers in Windows Server 2008. When using Plug and Play, first the scanner driver is installed, and then the printer driver.

Note

For Windows 7, Windows 8.1, Windows 10, Windows Server 2008 R2, Windows Server 2012, or Windows Server 2016, use the installer to install the drivers. The Windows Plug and Play function cannot install them.

📖 P.16 “Installing the drivers using the installer”

Tip

An additional printer wizard can also be used to install the printer driver. To use the additional printer wizard, select the USB port or the network port that the equipment is connected to using “Choose a Printer Port”.

1 Connect this equipment to the computer using a USB cable, and then start the computer.

Note

Do not connect or disconnect the USB cable when starting up the computer.

2 Turn on the equipment.

The Found New Hardware dialog box appears.

If it does not appear, turn off this equipment, and then wait approximately 10 seconds before turning it on again.

If you turn this equipment on immediately after turning it off, it may not function correctly.

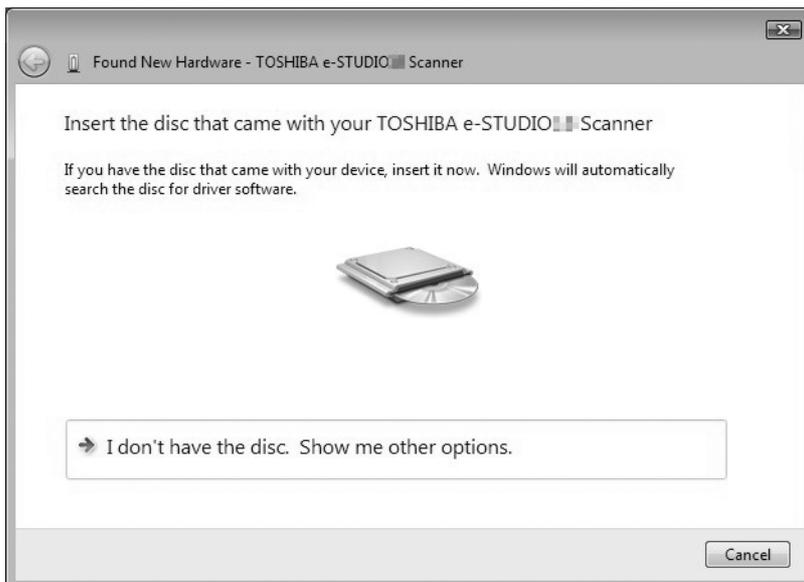
3 Click “Locate and install driver software (recommended)”.

The dialog box requesting the disk (Client Utilities/User Documentation DVD) appears.



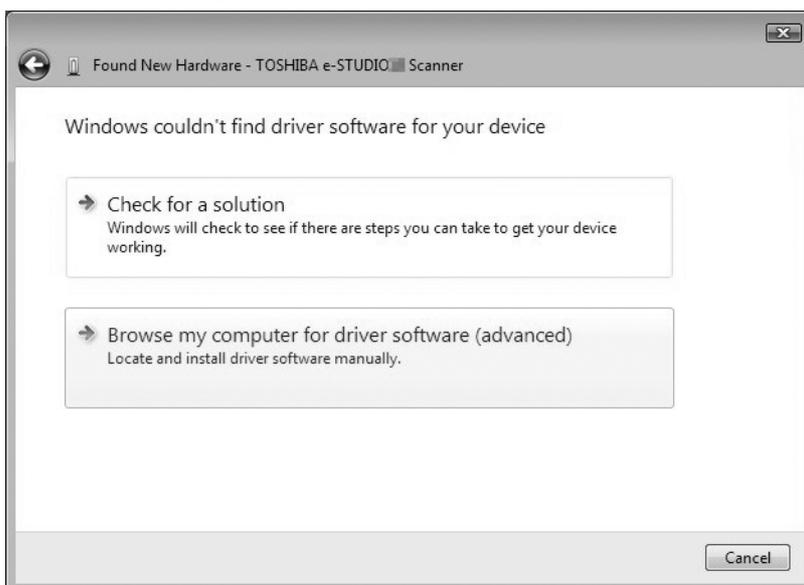
If the User Account Control dialog box appears, click [Allow] or [Continue].

4 Click “I don’t have the disc. Show me other options”.



5 Insert the Client Utilities/User Documentation DVD into the computer.

6 Click “Browse my computer for driver software (advanced)”.



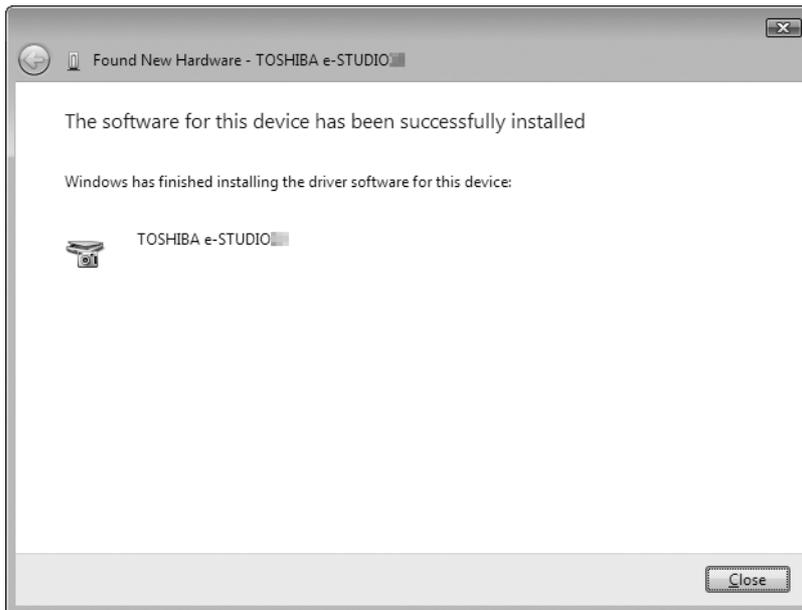
7 Select the folder on the DVD that contains the drivers, and then click [OK].
Select the folder according to the driver, language and operating system you are using. For example, for a 32-bit English OS with a scanner driver, select “Drive name:\Drivers\e-STUDIOXXXXSeries\SCANNER\English\i386”.

8 Click [Next].
If the Windows Security dialog box appears, click [Install this driver software anyway].

Note

If a message prompting you to confirm the device software installation appears, select the option of trusting the publisher such as [Install] or [Continue Anyway] to proceed with the installation.

9 When the installation completes, click [Close].



The Found New Hardware dialog box appears again and the installation of the printer driver begins.

10 Repeat steps 4 through 9 to install the printer driver.

11 After installation, make sure the icon for the installed printer appears in the Printers window.

12 Remove the DVD from the computer.

Uninstalling the Drivers from Windows

This section explains how to uninstall the printer, scanner, N/W Fax drivers, and e-STUDIO Scan Editor. Uninstalling the drivers requires the administrator authority.

Note

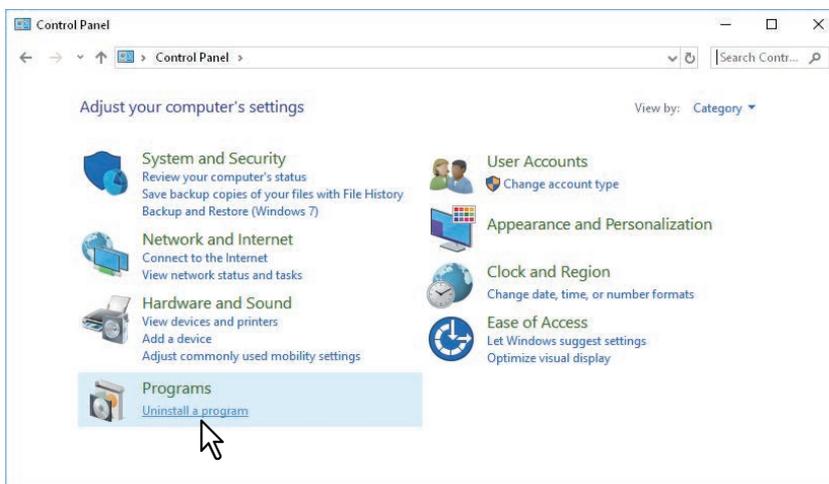
- To perform uninstallation, you must log onto Windows with the “Administrator” account. However, even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the uninstallation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and then continue.

Tip

Drivers other than e-STUDIO Scan Editor can be uninstalled from the installer on the DVD, too.

1 Open the [Uninstall a program] folder.

Click [Start], and then click [Windows System] > [Control Panel] > [Uninstall a program] from the list of all applications.



Tip

- Depending on the version of Windows 10, click [Start] and select [All apps], and then select [Windows System]> [Control Panel] > [Uninstall a program] from the list of all applications.
- For Windows 8.1 / Windows Server 2012, from the setting charm, click [Control Panel] > [Uninstall a program].
- For Windows 7 / Windows Server 2008, click [Start] > [Control Panel] > [Uninstall a program].

2 From the list, select you want to uninstall, and click [Uninstall].

3 Click [Yes].

4 Click [Yes] to delete the setting files.

Deleting files starts.

Note

If you want to reinstall the client software later, click [No] to have the setting files remain. You can restore the data and settings when you reinstall the client software.

INSTALLATION IN macOS

This chapter explains the installation in macOS.

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Installing the Printer in macOS

Refer to the following pages to install the PPD file and configure the printer in macOS:

📖 P.24 “Installing the PPD file”

📖 P.27 “Configuring the printer”

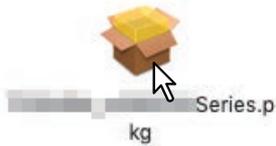
■ Installing the PPD file

The following procedure explains the PPD file installation by example of the screens in macOS 10.14.

Note

The steps and screens may differ depending on the version of macOS. When you use OS X 10.11 to macOS 10.13, refer to the following steps for macOS 10.14 to carry out the installation.

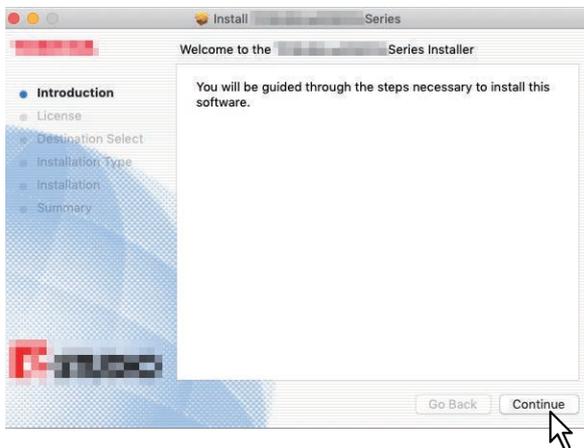
- 1 Insert the Install Disc into the disc drive.**
- 2 Open the [MacPPD] folder, and then copy the ZIP file to the desktop.**
- 3 Double-click the ZIP file on the desktop.**
- 4 Double-click the Disk Image file.**
- 5 Double-click the icon in the installer window.**



Note

When you start up the installer, be sure that macOS Printer Setup Utility is not operating. If a PPD file is installed while the macOS Printer Setup Utility is operating, the printer may not be normally recognized.

- 6 Click [Continue].**

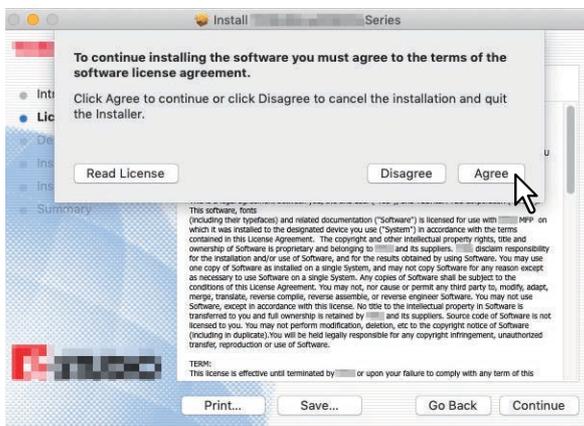


The [Software License Agreement] window is displayed.

7 Click [Continue].



8 Click [Agree].

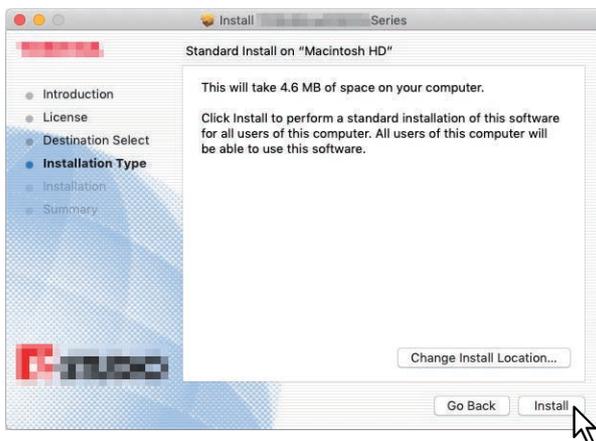


The [Standard Install] window is displayed.

Note

The subsequent steps may differ depending on the macOS version.

9 Click [Install] (or [Upgrade]).



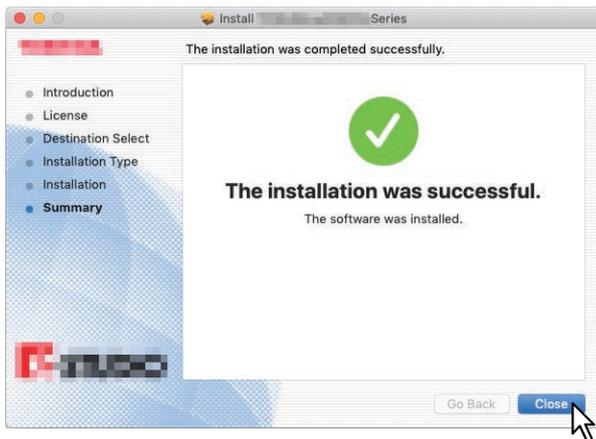
Tip

The Select a Destination dialog box appears by clicking [Change Install Location]. Select the boot disk for macOS and click [Continue].

10 Enter the name and password, and click [OK].



11 Click [Close] to close the installer window.



12 Delete the ZIP files and Installer files created on the desktop.

13 Continue the procedure for configuring the printer.

 P.27 “Configuring the printer”

■ Configuring the printer

After you copy the PPD file to the library folder in the System Folder, you can configure the printer. The equipment supports the following Mac OS X print services:

- **LPR printing**
📖 P.27 “Configuring LPR printing”
- **IPP printing**
📖 P.29 “Configuring IPP printing”
- **USB printing**
📖 P.31 “Configuring USB printing”

Tip

LPR printing and IPP printing are available when the equipment and your computer are connected over TCP/IP network.

❑ Configuring LPR printing

The screens for macOS 10.14 are used in this section.

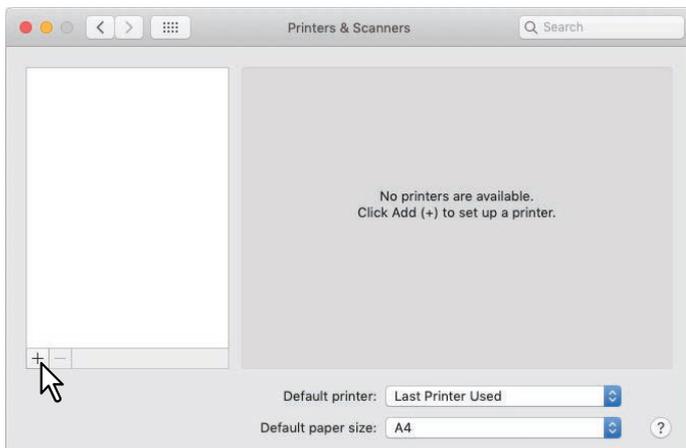
Tip

When you use OS X 10.11 to macOS 10.13, configure the printer in the same way as you do in macOS 10.14.

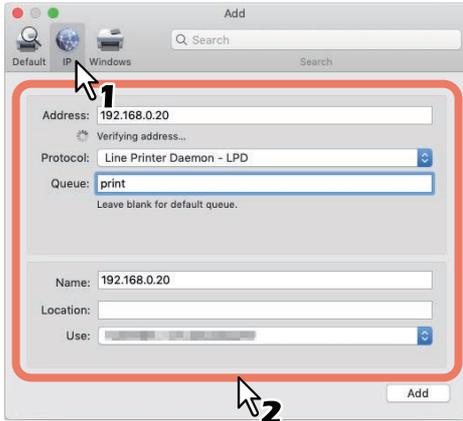
1 Open System Preferences and click [Printers & Scanners].



2 Click [+].



3 Click [IP] and specify the items as described below.



Address: <IP address or DNS name of this equipment>

Protocol: Line Printer Daemon - LPD

Queue: print

Name: <Any Name>

Location: <Any Name>

Use:

TOSHIBA e-STUDIO2329A for e-STUDIO2329A

TOSHIBA e-STUDIO2829A for e-STUDIO2829A

TOSHIBA e-STUDIO2822AM for e-STUDIO2822AM

TOSHIBA e-STUDIO2822AF for e-STUDIO2822AF

Tip

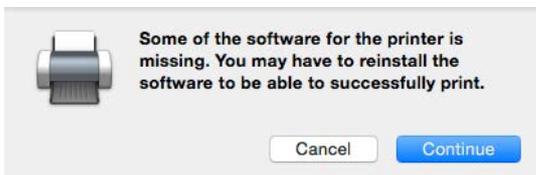
- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct name might not be selected in the [Use] box. Select [Other] in the [Use] box and select the correct PPD file for the equipment from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
 - EST2329A.ppd for e-STUDIO2329A
 - EST2829A.ppd for e-STUDIO2829A
 - EST2822AM.ppd for e-STUDIO2822AM
 - EST2822AF.ppd for e-STUDIO2822AF

4 Click [Add].

The [Installable Options] window appears.

Tip

If the screen below appears, click [Continue] to continue the printer setup.



5 Set the following options.

For e-STUDIO2329A/2829A:

Drawer 2 — Select this when the drawer 2 is installed.

Drawer 2 and 3 — Select this when the drawer 2 and 3 are installed.

Drawer 2, 3 and 4 — Select this when the drawer 2, 3 and 4 are installed.

ADU — Select the check box to use the Automatic Duplexing Unit.

For e-STUDIO2822AM/2822AF:

ADU — Select the check box to use the Automatic Duplexing Unit.

6 Click [OK].

The printer is added to the Printer List.

❑ Configuring IPP printing

The screens for macOS 10.14 are used in this section.

Tip

When you use OS X 10.11 to macOS 10.13, configure the printer in the same way as you do in macOS 10.14.

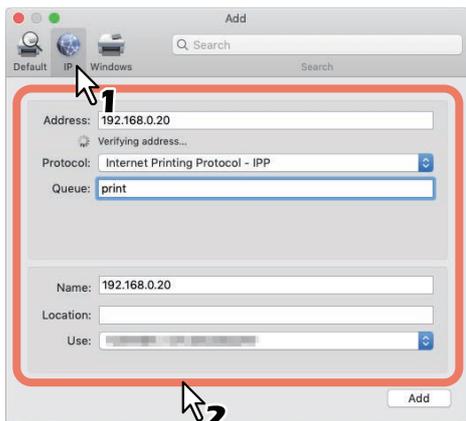
1 Open System Preferences and click [Printers & Scanners].



2 Click [+].



3 Click [IP] and specify the items as described below.



Address: <IP address or DNS name of this equipment>

Protocol: Internet Printing Protocol - IPP

Queue: Print

Name: <Any Name>

Location: <Any Name>

Use:

TOSHIBA e-STUDIO2329A for e-STUDIO2329A

TOSHIBA e-STUDIO2829A for e-STUDIO2829A

TOSHIBA e-STUDIO2822AM for e-STUDIO2822AM

TOSHIBA e-STUDIO2822AF for e-STUDIO2822AF

Tip

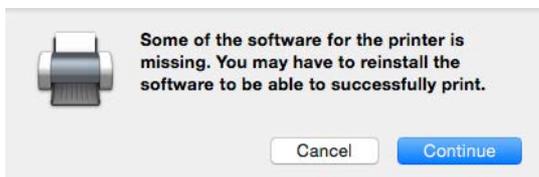
- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct name might not be selected in the [Use] box. Select [Other] in the [Use] box and select the correct PPD file for the equipment from the [/Library/Printers/PPDs/Contents/Resources/en.lproj] folder.
 - EST2329A.ppd for e-STUDIO2329A
 - EST2829A.ppd for e-STUDIO2829A
 - EST2822AM.ppd for e-STUDIO2822AM
 - EST2822AF.ppd for e-STUDIO2822AF

4 Click [Add].

The Installable Options window appears.

Tip

If the screen below appears, click [Continue] to continue the printer setup.



5 Set the following options.

For e-STUDIO2329A/2829A:

Drawer 2 — Select this when the drawer 2 is installed.

Drawer 2 and 3 — Select this when the drawer 2 and 3 are installed.

Drawer 2, 3 and 4 — Select this when the drawer 2, 3 and 4 are installed.

ADU — Select the check box to use the Automatic Duplexing Unit.

For e-STUDIO2822AM/2822AF:

ADU — Select the check box to use the Automatic Duplexing Unit.

6 Click [OK].

The printer is added to the Printer List.

❑ Configuring USB printing

- 1** Connect to your PC using a USB cable.
- 2** Click [System Preferences] > [Printers & Scanners] and select the icon of this equipment. Then click [Options & Supplies] > [Options].
- 3** Set the following options.
 - Drawer 2** — Select this when the drawer 2 is installed.
 - Drawer 2 and 3** — Select this when the drawer 2 and 3 are installed.
 - Drawer 2, 3 and 4** — Select this when the drawer 2, 3 and 4 are installed.
 - ADU** — Select the check box to use the Automatic Duplexing Unit.
- 4** Click [OK].

Uninstalling the Printer from macOS

In order to uninstall the printer from macOS, delete the PPD file and other files in the following folders.

- For e-STUDIO2329A:
Library/Printers/PPDs/Contents/Resources/en.lproj/EST2329A.ppd
- For e-STUDIO2829A:
Library/Printers/PPDs/Contents/Resources/en.lproj/EST2829A.ppd
- For e-STUDIO2822AM:
Library/Printers/PPDs/Contents/Resources/en.lproj/EST2822AM.ppd
- For e-STUDIO2822AF:
Library/Printers/PPDs/Contents/Resources/en.lproj/EST2822AF.ppd
- For e-STUDIO2329A/2829A:
Library/Printers/toshiba/ES2829ASeries
- For e-STUDIO2822AM/2822AF:
Library/Printers/toshiba/ES2822ASeries

INSTALLATION IN UNIX/Linux

This chapter explains the installation in UNIX/Linux.

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Configuring the Printer Using CUPS

Refer to the following pages to install the PPD file and configure the printer in UNIX/Linux for LPR printing, IPP printing or USB printing.

-  P.34 “Configuring the printer for LPR printing”
-  P.35 “Configuring the printer for IPP printing”
-  P.35 “Configuring the printer for USB printing”
-  P.36 “Configuring the print options”

■ Configuring the printer for LPR printing

To set up CUPS, copy the PPD file onto the UNIX/Linux workstation, install the printer, and then configure PPD. You can use a browser to install the printer and configure PPD.

After extracting the PPD file, restart the CUPS daemon.

- 1 Insert the Install Disc into the disc drive.**
- 2 Log on to the root account.**
- 3 Install the RPM package with the rpm command.**
- 4 Enter the following command:**
`service cups start`

Note

If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

- 5 Open the browser and locate CUPS by typing “http://localhost:631/” in the address box.**

Tip

When you use Red Hat Linux, access CUPS with the following command:
`/usr/bin/cupsconfig`

- 6 Click [Add Printer] on the [Administration] tab.**
- 7 Select [LPD/LPR Host or Printer] and click [Continue].**
- 8 Enter “lpd://<IP address>/Print” in the [Connection] box and click [Continue].**

Note

Make sure to capitalize the “P” in “Print” for the device URI.

- 9 Enter the printer name, description, and location of the printer in each box, and click [Continue].**

Note

If a new printer name is a duplicate of a name already in the printer list, the new printer will replace the original printer.

- 10 Select [TOSHIBA] in the [Make] box and click [Continue].**

Note

If you do not see [TOSHIBA] in the [Make] list, restart CUPS.

- 11 Select the model name in the [Model] list and click [Add Printer].**
- 12 Go to the following page for configuring the print options:**
 P.36 “Configuring the print options”

■ Configuring the printer for IPP printing

When you want to set up an IPP print queue in the Linux OS, follow the procedures here.

- 1 Insert the Install Disc into the disc drive.**
- 2 Log on to the root account.**
- 3 Install the RPM package with the rpm command.**
- 4 Enter the following command:**
service cups start

Note

If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

- 5 Open the browser and locate CUPS by typing “http://localhost:631/” in the address box.**

Tip

When you use Red Hat Linux, enter the following command to access “Common UNIX Printing System” page.
/usr/bin/cupsconfig

- 6 Click [Add Printer] on the [Administration] tab.**
- 7 Select “Internet Printing Protocol (http)” and click [Continue].**
- 8 Enter “http://<IP address>:631/Print” in the [Connection] box and click [Continue].**
- 9 Enter the printer name, description, and location of the printer in each box, and click [Continue].**

Note

If a new printer name is a duplicate of a name already in the printer list, the new printer will replace the original printer.

- 10 Select [TOSHIBA] in the [Make] box and click [Continue].**
- 11 Select the model name in the [Model] box and click [Add Printer].**
- 12 Confirm that the message notifying that the new printer has been properly added appears.**
- 13 Go to the following page for configuring the print options:**
 P.36 “Configuring the print options”

■ Configuring the printer for USB printing

When you want to set up an USB print queue in the Linux OS, follow the procedures here.

- 1 Insert the Install Disc into the disc drive.**
- 2 Log on to the root account.**
- 3 Install the RPM package with the rpm command.**
- 4 Enter the following command:**
service cups start
- 5 Connect to your PC using a USB cable.**
- 6 Go to the following page for configuring the print options:**
 P.36 “Configuring the print options”

■ Configuring the print options

You can set the print options that are applied to the print jobs using CUPS.

- 1** Click the **[Manage Printers]** link on the **[Administration]** tab.
- 2** Select this equipment and then click **[Set Default Options]**.
- 3** Configure the print options on the displayed page.
The underscored items are set by default.

Installed Options

Option Value	Alternative Value	Description
Drawers	<u>Not Installed</u> Drawer 2 Drawer 2 and 3 Drawer 2,3 and 4	Select an optional drawer.
ADU	Installed <u>Not Installed</u>	Select the Automatic Duplexing Unit option.
[Set Default Options] button	Determines the selected items.	

General

Option Value	Alternative Value	Description
Media Size	A3, A4, A5, J Post Card, B4, B5, Folio, <u>Letter</u> , Ledger, Legal, Statement, Computer, 13" LG, 8.5" SQ, 8K, 16K, Env DL, Env Cho-3, Env You-4, Env-Com10, Env-Monarch	Select the paper size.
Media Source	<u>Auto</u> (Default) Drawer 1 Drawer 2 Drawer 3 Drawer 4 Bypass Tray	Select the paper source.
Media Type	Printer's Default <u>Plain Paper</u> Thick Thick 1 Thick 2 Transparency Thin Envelope	Select the paper source.
Duplex	<u>Off</u>	1-sided printing
	Long Edge (Standard)	2-sided printing (Long-edge binding)
	Short Edge (Flip)	2-sided printing (Short-edge binding)
[Set Default Options] button	Determines the selected items.	

Printing Modes

Option Value	Alternative Value	Description
Department Code	<u>Disabled</u> Enabled	Select whether or not to use the department codes for printing. When this equipment is managed under the department codes, this option should be enabled.
Distinguish Thin Lines	<u>Off</u> , On	Select the function to distinguish thin lines.
Do not Print Blank Pages	Off, <u>On</u>	Select the function to print blank pages.
[Set Default Options] button	Determines the selected items.	

Printing Modes DC

Option Value	Alternative Value	Description
Department Code (DC) - Digit 1 to Digit 5	<u>0</u> to 9	Specify the 5-digit department code when "Department Code" of "Printing Modes" is enabled. For the appropriate department code, ask your system administrator.
[Set Default Options] button	Determines the selected items.	

Quality

Option Value	Alternative Value	Description
Halftone	<u>Detail</u> Smooth	Select how halftone images are printed.
Smoothing	On, <u>Off</u>	Select whether text and graphics are printed smoothly.
Toner Save	On, <u>Off</u>	Select whether toner is saved for printing.
[Set Default Options] button	Determines the selected items.	

Uninstalling the Printer from UNIX/Linux

To uninstall a printer that you have created, carry out the following procedure.

- 1 Click the [Manage Printers] link on the startup page.**
The Printer page is displayed.
- 2 Select the model, and then select [Delete Printer].**
- 3 Click [Delete Printer].**
- 4 Uninstall the installed RPM package with the rpm command.**

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MULTIFUNCTIONAL DIGITAL SYSTEMS

Software Installation Guide

e-STUDIO2822AM/2822AF

e-STUDIO2329A/2829A

Toshiba Tec Corporation

1-11-1, OSAKI, SHINAGAWA-KU, TOKYO, 141-8562, JAPAN

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