Document number	G99-69-49-01-02
Revision number	2
Date of establishment	Sep. 25, 2017
Date of revision	Apr. 09, 2018

ESPO Printer Driver Install Manual

Contents

Installing the printer driver (in case of USB connection)	
Connecting printer and computer with USB	
(Reference) If connection with USB is finished before installing the printer driver	12
Installing the printer driver (in case of LAN connection)	17
Connecting printer and computer with LAN	
(Reference) If the bit count of your PC is unknown	

Caution)

- This driver is a GDI printer driver.
 In the case of output from WPF application or output of XPS file, Degradation may occur in print quality.
- When barcode / 2D code image created on application software is processed by zooming process, Image distortion / fattening / thinning etc. deterioration occurs, causing reading failure. Please do not print by changing the bar code / 2D code image once created.

Caution

Be sure to finish this step before connecting printer and computer with USB cable.

When you install the driver by Plug & Play (USB connection), whether there is a driver for the same model in Windows is checked. If it exists, the driver existing in OS will be installed.

To install the latest driver, be sure to execute it before connection of printer and computer.

Caution)

Security software (Eg - port shutter made by Fujitsu Software Technologies) etc. If it is installed, you may not be able to install the driver. Allow control of ESPO Printer to be installed with security software or security. Or uninstall the software.

For Windows 7, Please process the following update program before installing the driver. Microsoft Security Advisory 3033929 10/11/2017 Availability of SHA-2 Code Signing Support for Windows 7 and Windows Server 2008 R2 Published: March 10, 2015

https://docs.microsoft.com/en-us/security-updates/securityadvisories/2015/3033929

1. Put the file of driver in an arbitrary place (folder). Example) C:\ESPO\PrinterDriver

	x64
	x86
0	espo.cat
5	Espo.INF

Display [Devices and Printers] screen.
 Example) In case of Windows10 64bit
 * In case of Windows 7 / 8 / 8 1, the displayed content may be clicktly

* In case of Windows 7 / 8 / 8.1, the displayed content may be slightly different.

(1) Click the right mouse button on [Start button] in the lower right of the screen.



(2) The menu will be displayed. Select [Control Panel].



(3) [Devices and Printers] screen will be displayed by clicking [View devices and printers] on [Control Panel] screen.
 * The screen shown below is an example of display setting [View by] to [Category].

If the screen is displayed in other format, select [Devices and Printers].



3. Click an arbitrary printer icon on [Devices and Printers] screen to display the menu related to printer on the screen, and then select [Print server properties].

Te Devices and	Printers				-		×
← → + 1	Control Pa	nel > Hardware and Sou	ind > Devices and Printers	~ ð	Search Devices and Prin	ters.	,p
Add a device	Add a printer	See what's printing	Print server properties	Remove device	×	•	0
Devices (4)							
	-	1	M				
			0				
1							
 Printers (3) 							
~	-	~					
50							
~	Microsoft XPS Do	cument Writer Model	Microsoft XPS Document	Writer v4			
5		Category: Status:	Printer 0 document(s) in queue				

4. If you click [Drivers] tab on [Print Server Properties] screen, the screen shown below will be displayed.

🖶 Print Server Properties			×
Forms Ports Drivers Security	Advanced		
DESKTOP-555MMB	7		
Installed printer drivers:	D	Turne	
Name	Processor	туре	
Microsoft enhanced Point	хб4	Type 3 - User Mode	
Microsoft enhanced Point	x86	Type 3 - User Mode	
Microsoft Print To PDF	х64	Type 4 - User Mode	
Microsoft XPS Document	хб4	Type 4 - User Mode	
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties	
Change Driver Settings	5		
	ОК	Cancel Apply	

If you click [Change Driver Settings] button, the screen shown below will be displayed.
 If you click [Add...] button, "Welcome to the Add Printer Driver Wizard" screen will be displayed.

🖶 Print Server Properties			Х
Forms Ports Drivers Security	Advanced		
DESKTOP-555MME	37		
Installed printer drivers:			,
Name	Processor	Туре	
Microsoft enhanced Point	хб4	Type 3 - User Mode	
Microsoft enhanced Point	x86	Type 3 - User Mode	
Microsoft Print To PDF	хб4	Type 4 - User Mode	
Microsoft XPS Document	хб4	Type 4 - User Mode	
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties	
	ОК	Cancel Apply	

6. If you click [Add...] button, "Welcome to the Add Printer Driver Wizard" screen will be displayed. Click [Next >].



- 7. Check the checkbox [x64] on [Processor Selection] screen and click [Next >].
 - * If you are using 32bit OS, select **[x86]**.
 - * If the bit count of OS is unknown, refer to [(Reference) If the bit count of your PC is unknown].

🖶 Add Printer Driver Wizard	×
Processor Selection Each processor uses its own set of printer drivers.	
Select the processor of all computers that will be using this driver:	
Processor	
₩ x64	
< <u>B</u> ack <u>N</u> ext > Canc	el

8. Click [Have Disk...] on [Printer Driver Selection] screen.

Add Printer Driver Wizard	×
Printer Driver Selection The manufacturer and model determine which printer driver to use.	
Select the manufacturer and model of the printer driver to install. If the driver you waits listed, click Have Disk to select the driver you want. If Windows Update is available, click it for more drivers for this processor.	ant is not
Manufacturer Printers	~
Image: This driver is digitally signed. Windows Update Tell me why driver signing is important	e Disk
< <u>B</u> ack <u>N</u> ext >	Cancel

9. After the screen shifts to [Install From Disk] screen, click [Browse...].



10. Specify the file of driver [ESPO] from the folder in which the driver is stored, and then click [Open].* The extension (.inf) may not be displayed depending on the use environment.

🗊 Locate F	ile			Х
Look <u>i</u> n:	Printer Driver ~	3 🦻	► 🔝 🏷	
Name	^	Date mo	dified	Ту
х64		9/3/2017	10:45 PM	Fi
x86		9/3/2017	10:45 PM	Fi
🔊 Espo		7/17/201	7 6:47 PM	Se
<				>
File <u>n</u> ame:	Espo	~	<u>O</u> pen	
Files of type:	Setup Information (*.inf)	\sim	Cancel	

11. Check the file of driver is selected on [Install From Disk] screen, and then click [OK].

Install Fr	om Disk	×
	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Copy manufacturer's files from: C:\Users\phoenix\Desktop\Printer Driver ~	<u>B</u> rowse

12. After the screen shifts to [Printer Driver Selection] screen, select [ESPO Printer] and click [Next >].

🖶 Add Printer Driver Wizard		×	
Printer Driver Selection The manufacturer and model determine which printer	driver to use.		
Select the manufacturer and model of the printer driver to install. If the driver you want is not listed, click Have Disk to select the driver you want. If Windows Update is available, click it for more drivers for this processor.			
Printers			
This driver has an Authenticode(tm) signature. <u>Tell me why driver signing is important</u>	<u>W</u> indows Update	<u>H</u> ave Disk	
	< <u>B</u> ack Next	:> Cancel	

13. Click [Finish].

Hand Add Printer Driver Wizard		×
	Completing the Add Printer Driver Wizard	
	You have successfully completed the Add Printer Driver Wizard.	
	You are about to add the following drivers: ESPO Printer, x64, Type 3 - User Mode	
	To close this wizard, click Finish.	
	< <u>B</u> ack Finish Cancel	

14. [Windows Security] screen will be displayed. Click [Install] button.



- 15. Check [ESPO Printer] is added to [Installed printer drivers] in [Drivers] tab of [Print Server Properties] screen.
 - * If the corresponding screen is closed, open it again referencing steps 3 and 4, and then check it.

Print Server Properties			Х
Forms Ports Drivers Security	Advanced		
DESKTOP-555MMB	7		
Name	Processor	Туре	
ESPO Printer	хб4	Type 3 - User Mode	
Microsoft enhanced Point	x64	Type 3 - User Mode	
Microsoft enhanced Point	x86	Type 3 - User Mode	
Microsoft Print To PDF	x64	Type 4 - User Mode	
Microsoft XPS Document	x64	Type 4 - User Mode	
A <u>d</u> d	<u>R</u> emove	Prop <u>e</u> rties	
	Close	Cancel <u>A</u> pply	r

The install of printer driver is completed.

Next, go to the step [Connecting printer and computer with USB].

- 1. Check the power supply of the printer is turned OFF, and then connect the PC and the computer with a USB cable.
- 2. Turn ON the power supply of the printer.
- 3. [ESPO Printer] will be displayed.



(Reference) If connection with USB is finished before installing the printer driver

If the PC and the printer are connected with a USB cable before installing the printer driver, the printer will be recognized as an unspecified device as shown below.

At that time, execute the recovery (re-install after removing the driver once) following the procedure described later.



1. Display [Devices and Printers] screen following the step 2 of [Installed printer drivers] and **click the right mouse button** on the unspecified printer icon of [ESPO]. Then, the menu will be displayed. Select [Remove device] and remove it from the list of this screen.

R Devices and Printers	- 0	×
← → × ↑ 🛱 > Control Panel > All Control Panel Items > Devices and Printers 🗸 🖑	Search Devices and Printers	Q
Add a device Add a printer Remove device		•
V Devices (4)		^
✓ Printers (3)		
🌍 🍣 🍣		
V Unspecified (1)		
Create shortcut		
ESPO Remove device		
Troubleshoot		~
Properties		

- X In case of Windows 7, the above "Device deletion is not displayed. Please delete it by the following procedure.
 - 1) Open the Device Manager.

Open it from the control panel or right click on the margin part with the device and printer Open the menu and open the Device Manager.



2) User Account Control will be displayed. Click the "Yes" button.



3) ESPO is displayed on other device or unknown device Click on the device of ESPO to select it and press "DEL" key.



4) The following deletion confirmation screen will be displayed. Confirm that it is ESPO and click the [OK] button Please click.



5) Make sure that ESPO has been deleted from the device manager.



2. Click [Hardware and Printers] from [Control Panel], the following screen will be displayed.



3. Click [Device Manager], the following screen will be displayed.



4. Click "Universal Serial Controller" to display "USB print support".

5. Right-click "USB printing support" to display the submenu and select "Delete", The following screen is displayed



- 6. Click the [OK] button and delete "USB print support".
- 7. Turn off the printer once, unplug the USB from the computer, Please re-install [Install printer driver] on page 3 again.
 - * Please reboot the PC before installing the printer driver.

LAN connection This section explains connection of printer and connection of print server (LAN connection).

- * This operation describes the behavior when the printer is not connected to a LAN cable.
- 1. Put the file of driver in an arbitrary place (folder). Example) C:\ESPO\Printer Driver



(2)

2. Display [Devices and Printers] screen.

Example) In case of Windows10

* In case of Windows 7 / 8 / 8.1, the displayed content may be slightly different.

]]

(1) Click the right mouse button on [Start button] in the lower right of the screen.

Ask me anything	Ļ	[
The menu will be displayed. Select [Control Panel].		
Programs and Features		
Power Options		
Event Viewer		
System		
Device Manager		
Network Connections		
Disk Management		
Computer Management		
Command Prompt		
Command Prompt (Admin)		
Task Manager		
Control Panel		
File Explorer		
Search		
Run		
Shut down or sign out >		
Desktop		

(3) [Devices and Printers] screen will be displayed by clicking [View devices and printers] on [Control Panel] screen.
 * The screen shown below is an example of display setting [View by] to [Category].

If the screen is displayed in other format, select [Devices and Printers].



3. After [Devices and Printers] screen is displayed, click [Add a printer].



4. The screen shown below will be displayed. Select [The printer that I want isn't listed].

		_		×
Add a device				
Choose a device or printer to add to this PC				
Select a device				_
9 9				
S				
The printer that I want isn't listed				
	<u>N</u> ex	t	Can	cel

5. Select [Add a local printer or network printer with manual settings] on [Add Printer] screen, and then click [Next].

		×
÷	🖶 Add Printer	
	Find a printer by other options	
	○ My p <u>r</u> inter is a little older. Help me find it.	
	○ <u>S</u> elect a shared printer by name	
	B <u>r</u> owse	
	Example: \\computername\printername or http://computername/printers/printername/.printer	
	○ Add a printer using a TCP/IP address or hostname	
	○ Add a Bluetooth, wireless or network discoverable printer	
	Add a local printer or network printer with manual settings	
	<u>N</u> ext Cancel	

6. After [Choose a printer port] screen is displayed, select [Create a new port] and [Standard TCP/IP Port], and then click [Next].

			×
÷	🖶 Add Printer		
	Choose a printer port		
	A printer port is a type of connecti	on that allows your computer to exchange information with a printer.	
	○ <u>U</u> se an existing port	LPT1: (Printer Port) ~	
	Oreate a new port:		
	Type of port:	Standard TCP/IP Port ~	
		<u>N</u> ext Cancel	

7. Input the PC address used for this product and uncheck the checkbox [Query the printer and automatically select the driver to use], and then click [Next].

		×
←	🖶 Add Printer	
	Type a printer hostname of	or IP address
	Device <u>t</u> ype:	TCP/IP Device 🗸
	Hostname or IP <u>a</u> ddress:	192.168.100.41
	<u>P</u> ort name:	192.168.100.41
	Query the printer and automat	tically select the driver to use
		<u>N</u> ext Cancel

8. The message [Additional port information required] will be displayed. Select [Custom] and click [Settings...].

		×				
←	🖶 Add Printer					
	Additional port information required					
	The device is not found on the network. Be sure that:					
	 The device is turned on. The network is connected. The device is properly configured. The address on the previous page is correct. If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device the below.					
	Device Type					
	○ <u>S</u> tandard Generic Network Card ∨					
	<u> </u>					
		_				
	<u>N</u> ext Cance	1				

- 9. Check whether the used port name and IP address are same as the settings in step 7 and [Protocol] and [Raw Settings] are same as the following, and then click [OK].
 - * For [Protocol], select [Raw]. For the port number of [Raw Settings], select [9100].

Configure Standard TCP/IP Port	Monitor >
Port Settings	
<u>P</u> ort Name:	192.168.100.41
Printer Name or IP <u>A</u> ddress:	192.168.100.41
Protocol	C LPR
Raw Settings	
Port <u>N</u> umber:	9100
- LPR Settings	
Queue Name:	
LPR Byte Counting Enab	led
SNMP Status Enabled	
<u>C</u> ommunity Name:	public
SNMP <u>D</u> evice Index:	1
	OK Cancel

10. After the screen shifts to [Additional port information required] screen, click [Next].

			\times
←	🖶 Add Printer		
	Additional port	information required	
	The device is not	found on the network. Be sure that:	
	 The device is The network i The device is The address o If you think the a address and performed device type below 	surned on. s connected. properly configured. n the previous page is correct. ddress is not correct, click Back to return to the previous page. Then correct the prm another search on the network. If you are sure the address is correct, select the v.	
	Device Type		
	○ <u>S</u> tandard	Generic Network Card $\qquad \qquad \lor$	
	◉ <u>C</u> ustom	S <u>e</u> ttings	
		<u>N</u> ext Cance	I

11. [Install the printer driver] screen will be displayed.

Select [Have Disk...].

							\times
←	🖶 Add	Printer					
	Install	the printer drive	r				
	8	Choose your printer	from the	e list. Click Wind	ows Update to see more	models.	
	~	To install the driver	from an i	nstallation CD, c	lick Have Disk.		
	Manuf	acturer	^	Printers			^
			>				~
	📮 Th	is driver is digitally sig	ned.		<u>W</u> indows Update	<u>H</u> ave Disk	
	<u>Tel</u>	l me why driver signir	ng is impo	ortant			
					[<u>N</u> ext Ca	ancel

12. After the screen shifts to [Install From Disk] screen, click [Browse...].



13. Specify the file of driver [ESPO] from the folder in which the driver is stored, and then click [Open]. * The extension (.inf) may not be displayed depending on the use environment.

🗊 Locate Fi	le			×
Look <u>i</u> n:	Printer Driver ~	3 🔊	► 🔝 🏷	
Name	^	Date mo	dified	Ту
x64		9/3/2017	10:45 PM	Fi
x86		9/3/2017	7 10:45 PM	Fi
🔊 Espo		7/17/201	7 6:47 PM	Se
<				>
File <u>n</u> ame:	Espo	\sim	<u>O</u> pen	
Files of type:	Setup Information (*.inf)	\sim	Cancel	

14. Check the file of driver is selected on [Install From Disk] screen, and then click [OK].

Install From Disk				
	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel		
	<u>C</u> opy manufacturer's files from: C:\Users\phoenix\Desktop\Printer Driver ~	Browse		

15. After the screen shifts to [Install the printer driver] screen, select [ESPO Printer] and click [Next].

				×
←	🖶 Ado	l Printer		
	Install the printer driver			
Choose your printer from the list. Click Windows Update to see more models.			odels.	
		To install the driver from an installation CD,	click Have Disk.	
	Printe	rs		
	E	PO Printer		
	E TI	nis driver has an Authenticode(tm) signature.	<u>W</u> indows Update	<u>H</u> ave Disk
	- <u>T</u> e	ll me why driver signing is important		
				<u>N</u> ext Cancel

16. Check the name of printer to be used and click [Next].

			×	<
←	🖶 Add Printer			
	Type a printer hai	ne		
	<u>P</u> rinter name:	ESPO Printer		
	This printer will be inst	alled with the ESPO Printer driver.		
		Next	Cancel]

- 17. On [Printer Sharing] screen, select [Do not share this printer] and click [Next] if the printer is not shared with other computers.
 - * If the printer is shared with other computers, it is necessary to carry out the setting on this screen.

_	🖶 Add Drinter		×
	add Printer		
	Printer Sharing		
	lf you want to share this print a new one. The share name w	er, you must provide a share name. You can use the suggested name or typ ill be visible to other network users.	e
	Do not share this printer		
	○ <u>S</u> hare this printer so that o	thers on your network can find and use it	
	S <u>h</u> are name:	ESPO Printer]
	Location:]
	<u>C</u> omment:		
		<u>N</u> ext Cancel	

18. Click [Finish].

		\times
~	Add Printer	
	You've successfully added ESPO Printer	
	To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page. Print a test page	
	<u> </u>	

19. [Windows Security] screen will be displayed. Click [Install] button.



20. [ESPO Printer] will be displayed on [Devices and Printers] screen.



The install of printer driver is completed.

Next, go to the step [Connecting printer and computer with LAN].

- 1. Check the power supply of the printer is turned OFF, and then connect printer and computer with a LAN cable.
- 2. Turn ON the power supply of the printer.

The connection is completed.

(Reference) If the bit count of your PC is unknown

Example) In case of Windows 10

* In case of Windows 7 / 8 / 8.1, the displayed content may be slightly different.

(1) Click the right mouse button on [Start button] in the lower right of the screen.



(2) The menu will be displayed. Select [System].



(3) You can check the bit count of OS with the item [System type].* In case of 32bit OS, [32-bit Operating System] will be displayed.



Titl	е	Rev	vision history			
Revision history						
Rev. No.	Pa	ge	Date of establishment / revision	Revised content	Review / approval	Creation
1	Al pag	l es	Sep. 25, 2017	Translated into English based on "418-00-49-00-06"		
2	P.3 P. 13	3 -14	Apr. 09, 2018	Attention of security software is added. Attention in case of windows 7 was added. Deletion method in case of Windows 7 was added.		