

Windows Driver Guide

Installer version For Ver. 2.25 / Ver.1660

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Revision history (2.xx)

Date	Version	Details
09/06/25	V2.00	Issued
09/10/29	V2.01	Added CT-S601
09/12/15	V2.02	Windows7 is supported
		Installer is changed. (Status function is supported on all the drivers.)
		Explanation for CITIZEN COM port is added
		Explanation for Additional driver function is added.
10/5/20	V2.02 (Modified)	CT-S651/851 are added.
10/5/27	V2.23	Version number is changed to same version as driver itself.
		Status monitor is updated to Ver2.2.4.0. Online/Offline can be detected correctly
		USB data transfer time out value of language monitor is changed to 8 seconds to avoid the
		communication error caused by bi-directional communication via USB on Windows7.
		(32-bit)/(64-bit) are added to FileDescription of DLLs.
		Windows7 device icon for CT-S60,651,801 and 851 are added.
10/11/25	V.2.24	Ethernet is added for supported interface
		POS Printer Utility is updated to Ver1.8.3 (Wrong setting values are corrected.)
		Status Monitor Library is updated to Ver1.3.1
		(The time to get status is shortened.)
11/4/13	V2.25	CT-S310II driver is added.
		2 dimensional barcode fonts are added.
		"Label/BM" function is changed to "Paper Media" function.
		"Cutter Mode" is refined to support Label/BM paper cutter mode.
		"Paper Feed" function is newly added for the adjustment of paper feeding before the cut.
		File sender garbage character problem is fixed.
		Changes to show/hide buttons and tabs are added.
		Status monitor is updated to ver2.2.5.2 for minor changes.
		PUS Printer Utility is updated to 2.0 and is excluded from driver installer.
12/6/15		Document for ver1.660 IS Integrated.
12/6/15		Explanation about ICP/IP port is added.

Revision history (1.xx)

Date	Version	Details
05/08/01	050420(V1.00)	This document is released
05/09/01	050901 (V1.40)	CT-S280 driver is added.
		FontAxx / FontBxx are added to CD-S500 series driver
		The problem with longer data than full column is corrected.
		Fewer columns problem with Font 15cpi Size 80 is corrected.
		The problem with mixed font lines between printer font and TrueType font is corrected.
		The problem with custom size paper for CT-S300 is fixed.
05/11/16	051116 (V1.51)	CT-S2000 driver is added
06/1/28	V1.53	Printing garbage problem with parallel I/F is fixed.
		High resolution CD-S500 graphic printing problem is fixed.
		CD-S500 longer than full column printing problem is fixed.
06/7/30	V1.56	Automatic line feed is added to the end of CT-S280 printing.
		The problem of feed length after barcode printing is fixed.
		The problem of divided TrueType font is fixed.
		The print speed down by above change is improved.
		Graphic print method of CT-S300 is changed.
		CT-S4000 driver is added.
07/3/20	V1.57	Another problem of feed length after barcode printing is fixed.
		Problem of unstable character size is fixed.
		CT-S4000 Label driver is added.
		BD2-2220/2221 is added.
		"Printer Features" function is added to print in fixed length.
		Drivers are adapted to Windows Vista
		Euro mark problem is solved.
07/04/30	V1.57a	CT-S310 driver is added
		PMU2xxx driver is added.
07/12/21	V1.581	64 bit drivers are added.
		Installer version is available.
		CT-S2000Label is added.
		CT-S4000 Compress driver is added.
		Partial cut is added to Cut method of PMU-2xxx
		NV logo transaction by ESC (L can be chosen for CT-S2000/4000/PPU700
		Graphic print method of CT-S280 is changed.
		The problem of printing some Unicode characters is fixed.
		The width information of FontA88 is corrected.
		The width information of 6.25cpi and 48point is corrected.
		The problem of wrong position logo by multiple page printing is fixed.

		Problem of wrongly printed printer font at the end of page is fixed.
		The problem of paper length by multiple page of upside down printing is fixed.
08/07/02	1.582	POS Printer Utility can be called from [Tool] property of driver.
		File transfer function is added to [Tool] property of driver
		Strange print position problem of printer font with Upside-Down function is fixed.
		Missing last vertical dot-line problem in high quality graphic printing is fixed.
		Actual printing area for CD-S500series is expanded.
		The problem of white gap in horizontal direction printing is fixed. (This solution requires firmware
		upgrade as well. Applicable model is C1-S2000, C1-S4000, C1-S310 and succeeding models.)
		The command for cut for CT-S300 & 310 is changed from GS V to ESC i, ESC m.
		TC C201 doi:no is added/4000/S28X/BD2-2XXX/PM0-2XXX/CBM100011 is corrected.
00/12/25	1 5925	C1-5261 UNVER IS addred.
08/12/25	1.582a	firmware. So the function was removed from CT-S310 driver.
09/04/08	1.583	CT-S281L driver is added.
		Custom paper definition in GPD file is changed as follows.
		Deleted left margin (*MinLeftMargin): All models
		Changed max defined size (*MaxSize):
		C1-S4000: from ($640, 32/6/$) to ($896, 26182$)
		$N_{0} = change (T, SE 0) = content of the second $
		Changed minimum defined cize (*MinSize):
		Label type (203 203)
		Non label type (20.20)
		PPU700 (203.719)
		No change: CD-S500series and CT-S4000 compressed.
		Solution for white gap in horizontal direction is added to CT-S281standard driver.
		The problem of disappeared button for POS Printer Utility by changing driver name is fixed.
09/12/15	1.600	CT-P290 series are added.
		The problem to print through Remote Desktop is solved.
		The problem of order to print NV logo in multiple pages on Windows7 is fixed.
		Icons for "Printer functions" in driver property are changed.
		Upside down printing function is deleted.
		Label/Black mark driver is integrated into standard driver.
10/2/9	1.610 (not released)	Status monitor is renewed and status function is very much improved.
10/6/21	1.630	Problem caused by printing from multiple processes is fixed.
		With the combination of logo printing at print job end + double high printer font for last print data,
		paper feeding length is changed according to logo data presence in the NV memory of the printer.
		This problem is fixed.
		(32-bit)/(64-bit) are added to FileDescription of DLLs.
		Status monitor is updated to Ver2.2.4.0. Online/Offline can be detected correctly.
		USB data transfer time out value of status monitor is changed to 8 seconds to avoid the
		Communication error caused by Di-directional communication via USB on Windows/.
11/1/6	1.640	Proper at presenter exit Call be detected as PKINTEK_STATUS_OUTPUT_BIN_FULL ON PPU-700.
11/1/0	1.040	Driver name of PMIL-2200 is changed to PMIDxxx
		Driver for PMI DryvIII Precenter is added
		Status Monitor Library is undated to Ver1 3.1 (The time to get status is shorten)
09/04/08 09/04/08 09/12/15 10/2/9 10/6/21 11/1/6	1.583 1.583 1.600 1.610 (not released) 1.630 1.640	 The protect of white gap in horizontal direction didect gap by printing with our version CT-S310 driver. CT-S281L driver is added. Custom paper definition in GPD file is changed as follows. Deleted left margin (*MinLeftMargin): All models Changed max defined size (*MaxSize): CT-S4000: from (640,32767) to (896,26182) Others from (???,32767) to (???,26182) No change: CT-S500 series Changed minimum defined size (*MinSize): Label type (203,203) Non label type (20,20) PPU700 (203,719) No change: CD-S500series and CT-S4000 compressed. Solution for white gap in horizontal direction is added to CT-S281standard driver. The problem of disappeared button for POS Printer Utility by changing driver name is fixed. CT-P200 series are added. The problem to print through Remote Desktop is solved. The problem to print through Remote Desktop is solved. The problem of order to print NV logo in multiple pages on Windows7 is fixed. Loons for "Printer functions" in driver property are changed. Upside down printing function is deleted. Label/Black mark driver is integrated into standard driver. Status monitor is renewed and status function is very much improved. Problem caused by printing from multiple processes is fixed. (32-bit)/(64-bit) are added to Ver2.2.4.0. Online/Offline can be detected correctly USB data transfer time out value of status monitor is changed to Ver2.2.4.0. Online/Offline can be detected correctly USB data transfer time out value of status monitor is USB on Windows7. Paper at presenter exit can be detected as PRINTER_STATUS_OUTPUT_BIN_FULL on PPU-700. Driver for BD2-4280,BD2-4281are added. Driver for BD2-4280,BD2-4281are added. Driver for PMU2xxXIII Presenter is added Status Monitor Library is updated to Ver1.3.1. (The time t

File version of driver and related files

Windows Driver : Ver2.25 or Ver.1.660

Status Monitor Library : Ver1.3.1

CITIZEN Printer COM Port : Ver1.0.1 (Installed with 2.xx series driver only)

CITIZEN Driver Port Setting : Ver1.3.0 (Installed with 2.xx series driver only)

Journal Viewer : Ver1.3.0.0 (Installed and working with 2.xx series driver only)

TCP/IP Port Monitor : Ver1.00 (Supplied separately from driver)

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1. Operating systems

Our drivers are designed to work on any of following operating systems.

Microsoft Windows 2000 (SP4)

Microsoft Windows XP

Microsoft Windows Server 2003

Microsoft Windows Vista

Microsoft Windows 7

Windows Installer 3.x needs to be installed for driver installation.

(This software is automatically installed by Windows update.)

Windows Installer can be downloaded from following site.

http://www.microsoft.com/downloads/details.aspx?displaylang=ja&FamilyID=5fbc5470-b259-4733-a914-a956122e08e8

2. Supported and interfaces

Supported interfaces are as follows.

Serial / CITIZEN COM

Parallel

USB

USB Virtual COM

LAN or Wireless LAN / CITIZEN TCP/IP

(This document does not cover TCP/IP port driver. For the details of TCP/IP port installation, refer to separate document "CITIZEN TCP/IP Port manual".)

Caution

USB Virtual COM driver

If you use CT-S281/310/310II/601/651/801/851/2000/4000 in USB Virtual COM mode, it is necessary to install USB virtual COM driver.

CITIZEN COM Port Monitor

If you use serial interface, use "CITIZEN COM Port Monitor" to get the printer status. If you use 1.6x driver and CITIZEN COM, install "CITIZEN COM" prior to the driver installation.

CITIZEN TCP/IP Port Monitor

If you use LAN or wireless LAN interface, use "CITIZEN TCP/IP Port Monitor" to get the printer status. If multiple PCs connect to a printer through LAN or wireless LAN and one of the PC is turned off without terminating LAN connection, the printer will check the communication between the PC and the printer and then terminate the LAN connection. Duding checking the communication, printer stops any communication with other PCs. (Max. 180 sec.)

3. Installation and uninstallation of the driver

These instructions use Windows Vista as the example operating system. Depending on the OS, there are little differences.

Please uninstall the older drivers prior to the installation.

Do not turn on the printer connected to the PC before installing the driver.

3.1 Driver installation

"Software Setup" installs necessary software automatically.

Run installer software, CT-S2000_Software_Setup. exe. On Windows Vista, "User Account Control" dialogue shows up like a right picture. Please press "Continue".

	,	
User Account Co	ontrol	
🕡 A pro	gram needs your permission to continue	
If you started	this program, continue.	
CITIZEN CT-S2000 Software Setup CITIZEN SYSTEMS JAPAN CO., LTD.		
☑ Details	<u>C</u> ontinue Cancel	
User Account	Control helps stop unauthorized changes to your computer.	

Press "Next".



If you can accept, choose "I accept the terms of the license agreement" and press "Next".

CITIZEN CT-S2000 Software Setup - InstallShield Wizard	
License Agreement Please read the following license agreement carefully.	4
IMPORTANT This User License Agreement ("ULA") is a legal agreement between you and CITIZEN SYSTEMS JAPAN CO., LTD. ("CSJ") and governs your use of SOFTWARE (Printer Driver). Your use of the SOFTWARE is deemed to be your acceptance of the Terms and Conditions of this ULA set out below. You only may use the SOFTWARE if you agree to abide by the following Terms and Conditions. If you decline to agree, you are not authorized to use the SOFTWARE.	< III
Terms and Conditions	-
I accept the terms of the license agreement Print	
I do not accept the terms of the license agreement	_
InstallShield	
< <u>B</u> ack Next > Cance	el 📄

Press "Install" here.

Then necessary software will be installed sequentially.

CITIZEN CT-S2000 Software Setup - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to the wizard.) exit
< <u>B</u> ack Install Can	el

During the installation steps, mouse operation is required. Please press "Next".



Press "Install".

CITIZEN CT-S2000 Printer Driver (x32) - InstallShield Wizard	x
Ready to Install the Program The wizard is ready to begin installation.	4
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to a the wizard.	exit
InstallShield Cance	2

Choose the interface for the printer.

* If USB or LPT (Plug & Play Port) is chosen, driver installation will be completed after finishing this software and connect printer to the PC. Please refer to Section 3.2 "Connecting printer and PC"

* If you want to get status of the printer, it is necessary to use CITIZEN COM port. It is possible to add COM port by pressing "Addition of COM port that printer uses". Please refer to section 3.4 CITIZEN COM port for the details.
Driver files are under installation.

DIFxInst.	exe - Port Selection	
Selecti	ion of the port	
Addition	n of CITIZEN port	
	Addition of COM port that priv	Addition of CITIZEN TCP/IP port
Selecti	on of output port	
	Port	Description
	USB:	Plug and Play Port
	CITIZEN COM1	Plug and Play Port
	CHIZEN CONT	
DIFxInst.exe		
		OK Cancel



If printer driver does not have digital signature, the message like shown right shows up. As our driver does not harm the PC, please choose "Install this driver software anyway".

* Other OS shows different message. In any case, our driver does not harm your PC. Please go ahead.

* If selected port is non-Plug & Play port, this screen will be shown twice. In that case, please choose "Install this driver software anyway."

Printer driver installation is finished. Press "Finish" to move next step. Remaining software will be installed sequentially.





When all the installation steps are finished, the right message will be shown The driver and software installation is finished. Press "Finish".

CITIZEN CT-S2000 Software Setup - InstallShield Wizard	
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed CITIZEN CT-S2000 Software Setup. Click Finish to exit the wizard.
	< <u>B</u> ack Finish Cancel

If USB or LPT is chosen as port, please refer to next section 3.2.

3.2 Connecting printer and PC

If the interface between printer and PC is USB or LPT, it is necessary to connect the printer and PC physically by cable and have each other recognized mutually.

After connecting the printer and the PC, turn the printer ON.

Then the printer is automatically detected and driver installation starts.

After a while, the driver installation is completed with the message in right picture.





* Messages and step are different on other OS than Windows Vista.

After connecting the printer and the PC, turn the printer ON.

If the driver does not have digital signature, the message in right picture show up.

For the question about Windows Update, choose, "No, not this time" and press "Next".



Choose "Install the software automatically (Recommended)" and press "Next".

Found New Hardware Wizard	
	This wizard helps you install software for: CITIZEN CT-S2000 If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	< Back Next > Cancel

If printer driver does not have digital signature, the message like shown right shows up. As our driver does not harm the PC, please choose "Continue Anyway".



Driver files are under being copied to system folder.

Copying Files	X
è	B
UNIRES.DLL To C:\WINDOWS\System32	2\spool\DRIVE\citizenct_s200003bf
	Cancel

Driver installation is finished. Press "Finish".

Found New Hardware V	Vizard
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
	CITIZEN CT-S2000
	Click Finish to close the wizard.
	< Back Finish Cancel

3.3 Serial Interface

If serial interface port (COM1, COM2....) is chosen for the interface to the printer, it is necessary to have same setting between printer side and PC serial port setting. Serial port setting for PC side is described here. For the printer side setting, please refer to DIP switch setting or memory switch setting in the User's manual of each model.

On Windows Vista,									
right-click at printer icon	Control P	anel 🕨 Pri	inters	s		arch			٩
and choose "Run as	🕒 Organize 👻 📲 Views	🔹 😫 A	\dd a	printer 🚲 Se	e what's printing	g »			0
administrator">	Favorite Links	Name	CITIZ	Documents ZEN CT-S2000	Status	Com	ments Fax	Location	»
"Properties" from the drop	Documents Pictures			Open	~	P	0 Ready		
down menu.	Music More »		۲	Run as adminis	strator 🕨		Open		
	Folders 🗸	~		Printing Prefere	ences		Pause P	rinting	
	Y.Noguchi			Pause Printing			Sharing.		
	Computer			Sharing			Ose Prin	ter Omme	
	Network			Use Printer Off	line		Delete		
	Control Panel			Refresh			Properti	es	
	AutoPlay			Create Shortcu	rt.				
	🐌 Backup and Re			Delete					
	📲 BitLocker Drive			Rename					
	🐨 Default Progra		_	Properties					

"User Account Control" is shown like right picture. Press "Continue".



By choosing "Ports" tab on printer properties, the port for printer driver can be changed.

To change serial port setting , press "Configure Port"

Please change the setting according to the serial port condition of printer and press "Apply".

Serial port setting is done.

Color Mana	-52000 Properties
	gement Security Device Settings Tool
General	Sharing Ports Advanced
CI	TIZEN CT-S2000
checked por	Description Distan
For	Description Printer
LPT1:	Printer Port
LP12:	Printer Port =
LPT3:	Printer Port
	Senal Port CTTIZEN CT-52000
COM2.	Serial Port
COM4	Serial Port
Add P	
Enable bio	directional support
Enable pri	nter pooling
00111	0
COM1 Pro	operties ?
Port Set	operties ? ×
Port Set	operties ? X
Port Set	operties ? X
Port Set	pperties ? X
Port Set	bperties
Port Set	bperties ? X
Port Set	pperties ? ► ➤ Tings Bits per second: 115200 ▼ Data bits: 8 ▼
Port Set	pperties ? ➤ Things Bits per second: 115200 ▼ Data bits: 8 ▼
Port Set	pperties ? ➤ tings Bits per second: 115200 Data bits: 8 Parity: None
Port Set	pperties ? ➤ tings Bits per second: 115200 Data bits: 8 Parity: None
Port Set	pperties ? × tings Bits per second: 115200 ▼ Data bits: 8 ▼ Parity: None ▼ Stop bits: 1
Port Set	pperties ? × tings Bits per second: 115200 ↓ Data bits: 8 ↓ Parity: None ↓ Stop bits: 1 ↓
Port Set	Derties Bits per second: 115200 Data bits: 8 Parity: None Stop bits: 1
Port Set	perties Perties ? × Bits per second: 115200 ▼ Data bits: 8 Parity: None ▼ Stop bits: 1 Flow control: None ▼
Port Set	Derties Bits per second: 115200 Data bits: 8 Parity: None Stop bits: 1 Flow control: None
Port Set	Bits per second: 115200 Data bits: 8 Parity: None None ▼ Stop bits: 1 Topo control: None
Port Set	poperties tings Bits per second: 115200 Data bits: 8 Data bits: 8 Parity: None Stop bits: 1 Parity: None Parity: Parity: None Parity: Pari
Port Set	Bits per second: 115200 Data bits: 8 Parity: None Stop bits: 1 Flow control: None None
Port Set	Bits per second: 115200 Bits per second: 115200 Data bits: 8 Parity: None Stop bits: 1 Flow control: None None •

3.4 CITIZEN COM PORT

To use status function of the driver through serial interface, it is necessary to create CITIZEN COM port. It is possible to create CITIZEN COM Port by assigning existing serial port in following steps.

As shown in the right picture, press "Addition of COM port that printer uses" button or from the Stat menu, "CITIZEN" – "Driver Port" – "Assign COM port for printer"

	don		
Selection of the port			
Addition of CITIZEN por	rt		
Addition of COM	I port that printer uses	Addition of CITIZEN TCP/IP port	
Selection of output port			
Port	Description	n	
USB:	Plug and F	Play Port	
LPT:	Plug and F	Play Port	
CITIZEN CO	DM1 CITIZEN C	COM Port	
- Vinet eve			
AIRISLICAC			
		OK Car	ncel
	Assign CO Assign CO Assign CO Assign CO Driver Port Assign CO Assign CO	DM port for printer t Setting unitor Library ne.txt Monitor Library API Sp tility er Utility	
	Add CT-S2	2000 Driver de	
Dort	Add CT-S2 Driver Guid Back Start Search	2000 Driver de -	1
Port	Add CT-S2	2000 Driver de	

Choose the existing serial port to assign to CITIZEN COM port. ** Virtual COM port can be used same way as standard COM Port. Set the details of port for serial communication condition accordingly and press "OK".

COM1 Properties	? ×
Port Settings	
Bits per second: 115200	_
Data hita (
Data bits: 8	
Parity: None	•
Stop bits: 1	-
Daw anatak Unduran	
Hardware	
	Restore Defaults
OK Canc	el <u>A</u> pply

Port is created as per the right picture.

it CITIZEN CT-S2000	Properties			X
Color Management General	Security Sharing	Device Sett Ports	ings Ad	Tool Ivanced
CITIZEN C	T-S2000			
Print to the following p checked port.	port(s). Documents	will print to the f	ìrst free	
Port	Description	Printer		
COM4:	Serial Port			
COM1:	Serial Port			
FILE:	Print to File			
XPSPort:	Local Port	Micros	oft XPS	Docum =
CITIZEN COM1	CITIZEN Port	CITIZE	EN CT-S	2000
•				•
Add Port	Delete Po	ort (<u>C</u> onfigure	Port
Fnable bidirectiona	support			
Enable printer pool	ing			
	"'9			
	ОК	Cance	el	Apply

* If status function is used through normal serial port without choosing CITIZEN COM, there could be trouble of PC freeze by waiting for status data from printer for about 30 seconds.

3.5 CITIZEN TCP/IP PORT

To use status function of the driver through LAN or wireless LAN interface, it is necessary to have CITIZEN TCP/IP port monitor.

CITIZEN TCP/IP port monitor needs to be installed prior to the printer driver installation.

(Refer to "CITIZEN TCP/IP Port manual" for the details of the installation.)

On the "Port Selection" screen in the middle of printer driver installation steps, installed CITIZEN TCP/IP Port is shown. Please choose the port. (Refer to the picture below.)

You can also add new CITIZEN TCP/IP Port here.

As shown in the right	DIFxInst.exe - Port Selection	-X	
picture, press "Addition of	Selection of the port		1
CITIZEN TCP/IP port"			
button to add new CITIZEN			-
TCP/IP port	Addition of CITIZEN port		
	Addition of COM port that p	Addition of CITIZEN TCP/IP port	
	Selection of output port		
	Port	Description	
	USB:	Plug and Play Port	
	LP1:	Plug and Play Port	
	DIFxInst exe		
		OK Cancel	

* If status function is used through standard TCP/IP port, there could be trouble of PC freeze by waiting for status data from printer.

3.6 Additional driver installation

If you want to install additional driver to non-plug & play port such as serial interface, please follow the steps below.





Choose interface that the printer is connected and press "OK".

DIFxInst. Select	exe - Port Selection	
Additic	on of CITIZEN port Addition of COM port that p	winter uses Addition of CITIZEN TCP/IP port
Select	tion of output port	
	Port	Description
	CITIZEN COM1	CITIZEN COM Port
DIFxInst	.exe	OK Cancel

Additional printer diver is installed.



- * Once driver for the model is installed, additional driver installation to Plug & Play port can be done automatically just by connecting printer to the port.
- * Uninstalling whole drivers can be done as per the explanation in section "3.5 Uninstallation".

3.7 Uninstallation

Uninstallation of driver and software can be done from "Control Panel" --> "Programs and Features" (The name may be "Add or Remove Programs" depending on OS.)



Choose "CITIZEN CT-S2000 Printer Driver (x32)" to uninstall CT-S2000 printer driver.

Choose "CITIZEN Journal Viewer" to uninstall journal viewer.

Choose "CITIZEN Printer COM Port" to uninstall CITIZEN COM port.

Choose "CITIZEN Journal Viewer & Status Monitor" to uninstall all other programs.

* If multiple CITIZEN drivers are installed, Journal Viewer and POS Printer Utility may be commonly used among those drivers. If you do not uninstall all printer drivers from the PC, do not uninstall the software.

*If only printer driver is uninstalled, and Software setup is executed, only printer driver is installed again and other installed programs will not be installed again.

3.8 Remarks for installation and uninstallation

- *The serial port settings on both the printer and PC need to match. If the setting does not match, it may cause no printing, garbage characters printing and so on.
- *If the driver uses COM port, other application to use same COM port may not work. In this case, you may be able to avoid the trouble by changing the COM port of the printer driver tentatively to other port.
- * Once a USB port is used for driver installation, please do not use other USB port. If other USB port is used, it may not be possible to print correctly. If it happens, it may be necessary to uninstall the driver and install the driver again.
- *If POS Printer Utility is used right after driver installation through Plug & Play port, it may cause communication failure. If it happens, reboot PC to have stable communication.
- * When you try to install the driver, if the driver for same model already exist on the same PC, please uninstall the existing driver first and then run Setup software. To uninstall the driver, please follow the



instruction depending on the installation type. If the installation is done by Setup software, uninstallation should be done as mentioned in former section 3.4. If the driver installation is done by manually, uninstallation should be done manually. The installation manual for manual installation explained for that. And the document is supplied separately.

* With USB interface, installation failed by some reason and not possible to uninstall, printer may be recognized as Unknown device in Device Manager of Control Panel. In such case, delete the unknown device from Device Manager.