CITIZEN

OPOS DRIVER 1.14

Setup Guide

For Ver. 1.14.1.3

CITIZEN SYSTEMS JAPAN CO., LTD.

Revision Record

Date	Version	Description
Feb. 10, 2011	1.00	New issue
Apr. 5, 2011	1.01	- CT-S310II model was added to each item. - "Installation of the Windows driver" was changed.
Aug. 19, 2011	1.13.1.2	- Version number is changed to same version as driver itself. - Release Notes file was added to installation structure. - The setting of "Write Buffer" and "Detect the completion of printing" was added to "Details of settings". - "PE output at PNE=Invalid" was added to the memory switch setting table.
Oct. 7, 2011	1.13.1.3	- "Log setting" was added to "Tool Menu".
Nov. 14, 2011	1.13.1.4	- Updated the version number only.
Dec. 27, 2011	1.13.1.5	- Updated the version number only.
Feb. 10, 2012	1.13.1.6	- Updated the version number only.
Mar. 12, 2012	1.13.1.8	- Updated the version number only.
Apr. 12, 2012	1.13.2.0	- Added about parallel interface and Windows driver. - CSJDSO.DLL was removed from the installation files.
Jun. 7, 2012	1.13.2.1	- Updated the version number only.
Aug. 10, 2012	1.13.2.2	- Updated the version number only.
Sep. 25, 2012	1.13.2.3	- Added "NV (Used key code)" to SetBitmap mode.
May. 22, 2013	1.13.2.4	- Updated the version number only.
Jan. 17, 2014	1.13.2.5	- Added Windows8/8.1 to Operating systems. - CT-S281BT/BD models were added to each item.
Jul. 24, 2014	1.13.2.6	- Changed the library files of the installation files. - Add 936 to "Code Page".
Feb. 24, 2015	1.13.2.7	- CT-S251 and CT-S601II/651II/801II/851II models were added to each item. - Added "Grayscale" to the Bitmap Setting.
May 14, 2015	1.13.2.8	- Updated the version number only.
Feb. 10, 2017	1.13.2.10	- Added Windows10 to Operating systems. - CT-D150 and CT-E351 models were added to each item.
Jun. 15, 2017	1.13.2.11	- Descriptions in "Printer Setting" (Chapter 6) were modified. - CT-D151 and CT-E651 models were added to each item.
Aug. 22, 2018	1.14.1.0	- Deleted CT-S310 and CD-S500 at the supported models. - Added the line displays and the barcode scanners to the supported models of peripheral devices.
Nov. 16, 2018	1.14.1.1	- IF2-BT03 and IF2-BT04 interfaces were added to each item. - Added description of default installation folder.
Dec. 27, 2018	1.14.1.2	- CT-S751 and BC-NL3000U models were added to each item.
Feb. 5, 2019	1.14.1.3	- CT-S4500 model was added to each item. (Page 5-8, 68)

Notes

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Contents

1. Operating Environment

1.1. Operating System

This driver supports the following Windows operating systems
- Windows XP
- Windows Vista
- Windows 7
- Windows 8 / 8.1
- Windows 10

1.2. Supported Models (Printers)

Object models of this product and the corresponding interface are as shown below.
For details of each model, refer to the Printer User's Guide.

Series of Model	Object Model	Interface	Printer Functions
CT-D150	CT-D150	Serial, USB, Ethernet	Standard
CT-D151	CT-D151	Serial, USB, Ethernet, Bluetooth	Standard
CT-E351	CT-E351	Serial, USB, Ethernet	Standard
CT-E651	CT-E651	Serial, USB, Ethernet, Bluetooth	Standard
CT-S251	CT-S251	Serial, USB, Ethernet, Bluetooth	Standard
CT-S281	CT-S281/281BT/281BD	Serial, USB, Bluetooth	Standard
	CT-S281-XL-M1	Serial, USB	Blackmark paper is supported.
	CT-S281-XL		Label paper is supported.
CT-S310II	CT-S310II	Serial, USB, Ethernet	Standard
CT-S601/651/801/851	CT-S601/651/801/851	Serial, Parallel, USB, Ethernet	Standard
	CT-S801/851-M		Blackmark paper is supported.
	CT-S801-L		Label paper is supported.
CT-S601II/651II/801II/851II	CT-S601II/651II/801II/851II	Serial, Parallel, USB, Ethernet, Bluetooth	Standard
	CT-S801II/851II-M		Blackmark paper is supported.
	CT-S801II-L		Label paper is supported.
CT-S751	CT-S751	Serial, USB, Ethernet, Bluetooth	Standard
CT-S2000	CT-S2000	Serial, Parallel, USB, Ethernet	Standard
	CT-S2000-M		Blackmark paper is supported.
	CT-S2000-L		Label paper is supported.
CT-S4000	CT-S4000	Serial, Parallel, USB, Ethernet	Standard (Paper with blackmark on front side is supported.)
	CT-S4000-M		Paper with blackmark on back side is supported.
	CT-S4000-L		Label paper is supported.
CT-S4500	CT-S4500	Serial, USB, Ethernet, Bluetooth	Standard (Blackmark paper is supported.)

USB Interface Connection

Installation of printer driver is required when using this product with USB connection. In addition, the

kind of driver for installation differs by the USB mode setting of printer.
1) In the case when USB Mode is Printer Class
   Perform the installation of Windows Driver. Designate USB Interface Port (Virtual Printer Port for USB) which is designated by the Windows Driver at OPOS Driver side.
2) In the case when USB Mode is Virtual COM
   Perform installation of Virtual COM Driver. Designate serial interface port designated on the Virtual COM driver at OPOS Driver side.

Parallel Interface Connection

If the terminal and the printer are connected together through parallel interface, the installation wizard requesting you to install printer driver each time you start the terminal may start.   To prevent this installation wizard from starting install Windows driver.

Installing Windows Driver

Windows drivers corresponding to individual models are as shown below.   For the method of Windows driver installation, refer to "Windows Driver Guide" supplied with Windows driver.

Object Model	Windows Driver Name	Printer Function
CT-D150	CITIZEN CT-D150	Standard
CT-D151	CITIZEN CT-D151	Standard
CT-E351	CITIZEN CT-E351	Standard
CT-E651	CITIZEN CT-E651	Standard
CT-S251	CITIZEN CT-S251	Standard
CT-S281/281BT/281BD	CITIZEN CT-S281	Standard
CT-S281-XL-M1	CITIZEN CT-S281 Label	Blackmark paper is supported.
CT-S281-XL	CITIZEN CT-S281 Label	Label paper is supported.
CT-S310II	CITIZEN CT-S310II	Standard
CT-S601/651/801/851	CITIZEN CT-S601/651/801/851	Standard
CT-S801/851-M	CITIZEN CT-S801/851 Black Mark	Blackmark paper is supported.
CT-S801-L	CITIZEN CT-S801 Label	Label paper is supported.
CT-S601II/651II/801II/851II	CITIZEN CT-S601II/651II/801II/851II	Standard
CT-S801II/851II-M	CITIZEN CT-S801II/851II Black Mark	Blackmark paper is supported.
CT-S801II-L	CITIZEN CT-S801II Label	Label paper is supported.
CT-S751	CITIZEN CT-S751	Standard
CT-S2000	CITIZEN CT-S2000	Standard
CT-S2000-M	CITIZEN CT-S2000	Blackmark paper is supported.
CT-S2000-L	CITIZEN CT-S2000 Label	Label paper is supported.
CT-S4000	CITIZEN CT-S4000	Standard (Paper with blackmark on front side is supported.)
CT-S4000-M	CITIZEN CT-S4000 Label	Paper with blackmark on back side is supported.
CT-S4000-L	CITIZEN CT-S4000 Label	Label paper is supported.
CT-S4500	CITIZEN CT-S4500	Standard (Blackmark/Label paper is supported.)

* This driver cannot be used with the status function (language monitor) of the Windows driver that shows the printer status. When using this driver, **install the Windows driver without the status function**, **or uncheck the "Enable bidirectional support" option under the Ports setting of the Windows driver.** (Need to reboot the computer in order for the changes to take effect.)

If the printer is connected through parallel interface, the Windows spooler keeps connecting to the printer. When this OPOS driver connects to the printer (executing ClaimDevice method or setting

DeviceEnable property as TRUE), it switches the port to output from LPTn: to FILE: temporarily. And it resumes to the original output port after the operation is done. This operation takes long time. If you do not use the printer with the Windows driver, you can avoid wasting time by setting the output port as "FILE:". (It is also in the dialog described before, check "FILE:" in the "Print to the following port(s)" list).
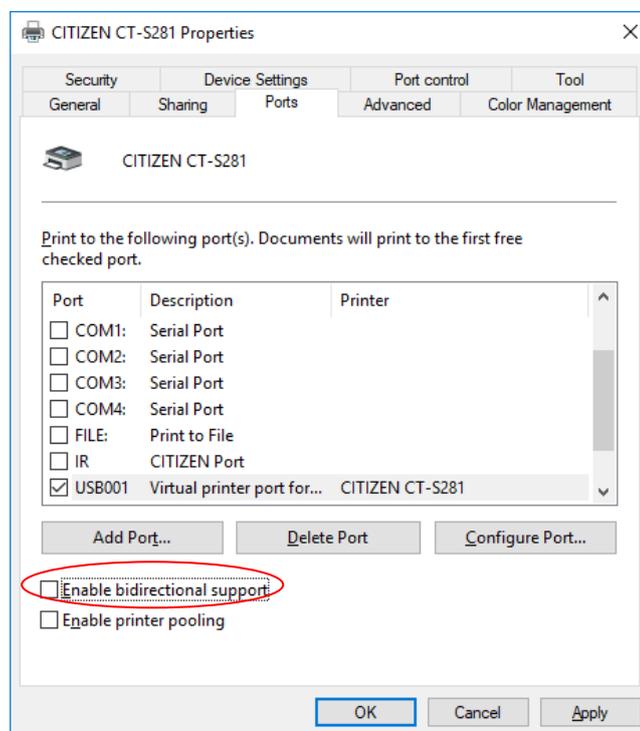
Installation of USB Virtual COM Driver

Install virtual COM driver corresponding to each model. Please refer to [Virtual COM Driver Installation Guide] attached to virtual COM driver for the installation method of virtual COM driver.

In addition, corresponding status of USB virtual COM mode for each model is shown on the table below;

Model Name	Corresponding Status for Virtual COM Mode	Port Name (Port Number)
CT-D150	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-D151	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-E351	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-E651	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S251	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S281/281BT/281BD	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S281-XL-M1		
CT-S281-XL		
CT-S310II	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S281/281BT/281BD	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S281-XL-M1		
CT-S281-XL		
CT-S601/651/801/851	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S801/851-M		
CT-S801-L		

CT-S601II/651II/801II/851II	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S801II/851II-M		
CT-S801II-L		
CT-S751	Supported	Ctvrcom Virtual Communication Port (COM7)
CT-S2000	Supported	Ctvrcom Virtual Communication Port (COM8)
CT-S2000-M		
CT-S2000-L		
CT-S4000	Supported	Ctvrcom Virtual Communication Port (COM8)
CT-S4000-M		
CT-S4000-L		
CT-S4500	Supported	Ctvrcom Virtual Communication Port (COM7)

1.3. Supported Models (Peripheral Devices)

The target models of peripheral devices of this driver are as follows.
The peripheral devices are used by connecting the Network or the Bluetooth interface with USB host function. Also, connecting to a PC directly is available.
For the detailed functions of each model, refer to the user's manual of the peripheral device.

Line display

Object Model	Function
DSP01-LT	TFT line display
DSP02-LS	STN line display

Barcode scanner

Object Model	Function
SCN01-Z1D	1D barcode scanner
SCN02-Z2D BC-NL30000U	2D barcode scanner

* When using this driver, the setting described in "5. Barcode scanner setting" is required.

Use connected to the printer

To connect the target peripheral device, turn off the printer power supply once, and then connect it to the USB terminal of the Network or Bluetooth interface shown below. After that, turn on the printer power supply, wait for about 30 seconds until the target peripheral device becomes usable, and then execute the peripheral device control.

IF1-EFX2/IF1-WFX5   IF2-EFX2   IF2-WFX5

IF2-BT03/IF2-BT04
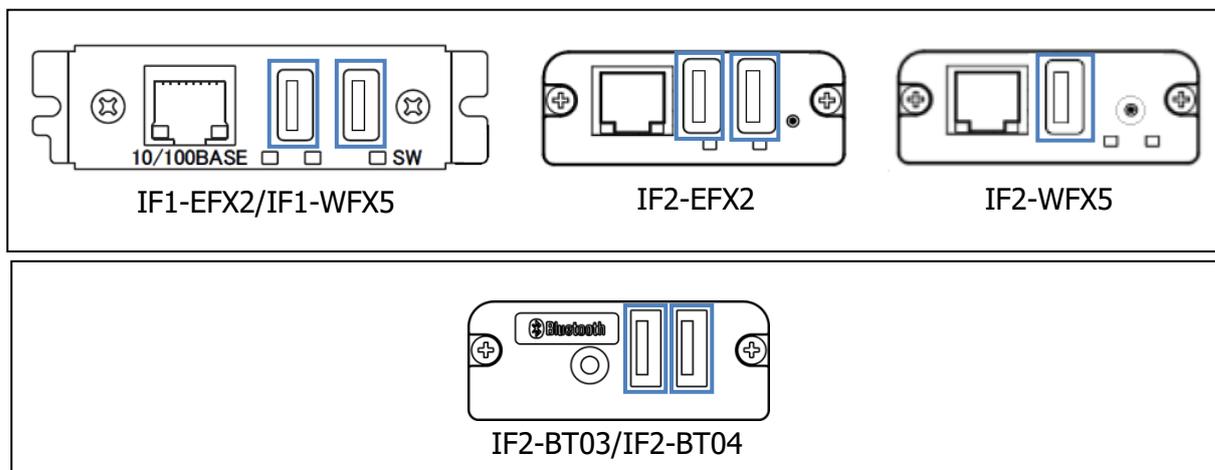
The following lists prohibited actions with regard to a peripheral device connection.
- Connecting other than a supported peripheral device (USB hub, smartphone, etc.) to a USB port of the interface.
- Inserting and removing the cable connector of the peripheral device into/from a USB port of the interface while the printer power is on.
- Connecting multiple peripheral devices of the same type to a USB port of the interface (e.g. connecting two displays).

If any of the above actions is performed, it may lead to the misoperation and, in the worst case, cause a failure of the printer or connected peripheral device.

Network interface setting

When using the line display and the barcode scanner for the Network interface, it is necessary to change the setting related to the service. For the basic operation, refer to the instruction manual of

the interface board of the printer.

Please connect to each printer from a Web browser and display the following Service screen. Configure the services provided by the printer.

Select Enable of VCOM Converter referring to the inside of the red frame. Then scroll to the bottom and press the "Submit" button.
Finally, press the "Save & Reboot" button on the "Maintenance" tab, select "Yes", and when the buzzer beeps from the printer, the setting is completed

When checking "Show configuration" in the above red frame, the setting screen of "Media Converter Configuration / VCOM Convert" is displayed, but since it already has an appropriate value for the corresponding display, it is not changed by normal use Please do.

Each setting value holds the value even when the power is turned off. When factory default setting (Factory Default) processing is done, set each setting value to the initial value.

Use directly connected to PC

Install the Virtual COM driver that corresponds to each model. On the OPOS driver, specify the serial interface port specified on the Virtual COM driver.

2. Installation

2.1. Installation Procedure

The installation procedure for this product is described below.
Before installation, shut down all applications in operation.

1) Run CSJ_OPOS_EN_Vxxxx.msi (the installer, where xxxx represents the version).
   Setup Wizard starts.　Click [Next].
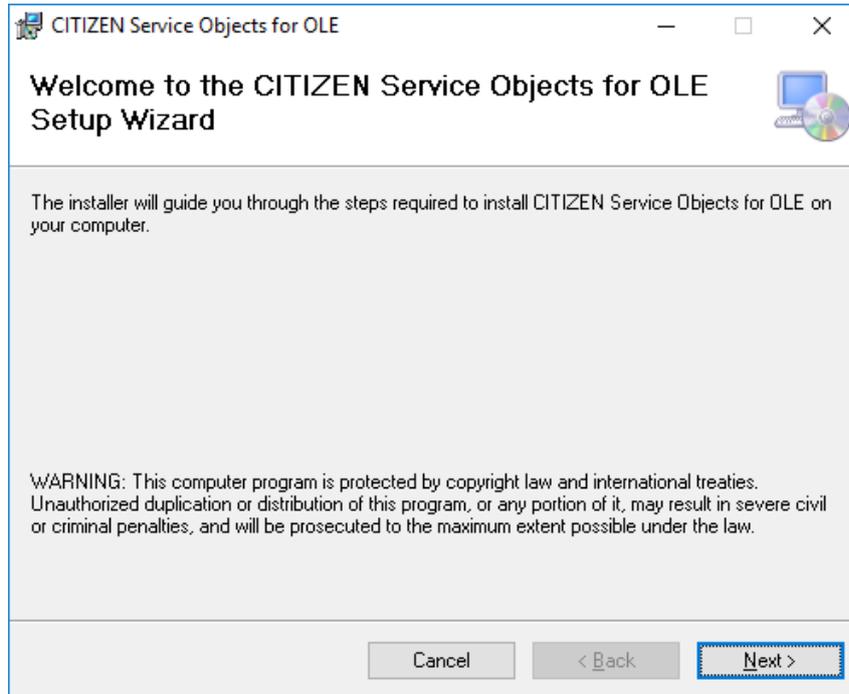
2) "License Agreement" window is displayed.
   If you agree with the product license agreement, select "I Agree" and click [Next].　If you do not agree with the product license agreement, select "I Do not Agree" and click [Next] to exit the wizard.
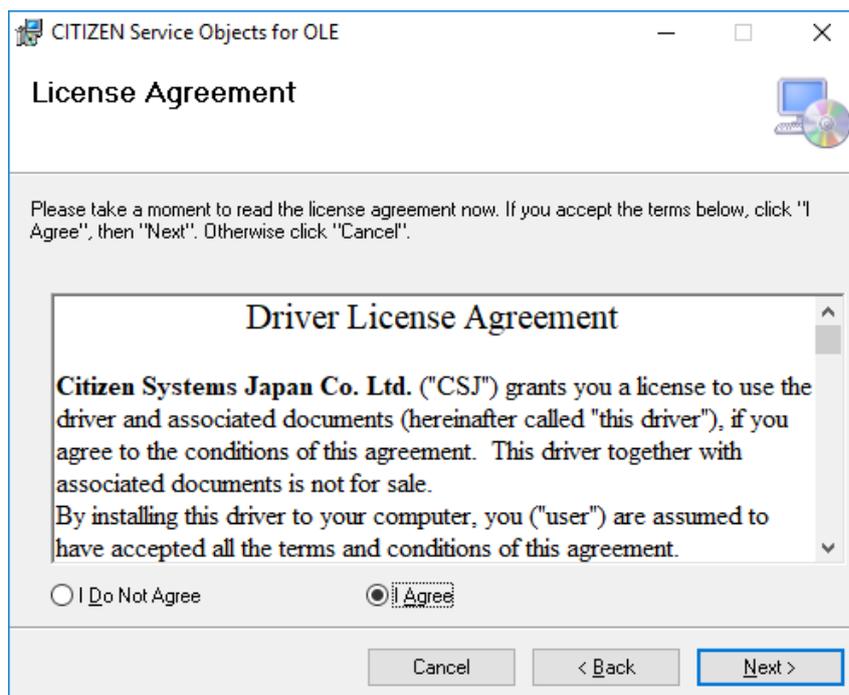
3) "Select Installation Folder" window is displayed.
   Specify the folder to install. If you use a default folder, click [Next]. If you want to change the folder, change the folder you want to install.
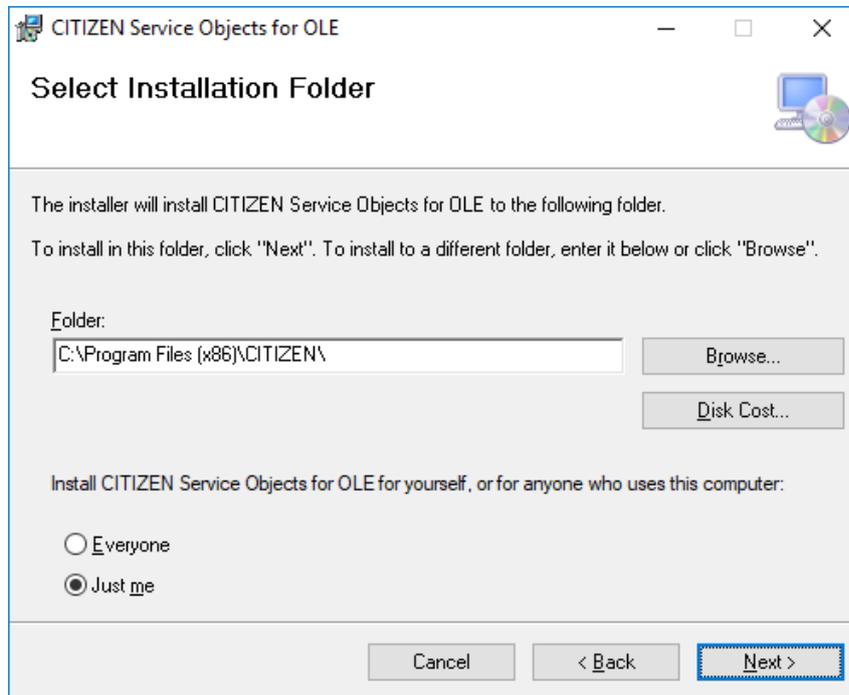
4) From Windows Vista and later version, click "Yes" when the following "User Account Control" dialog is displayed.
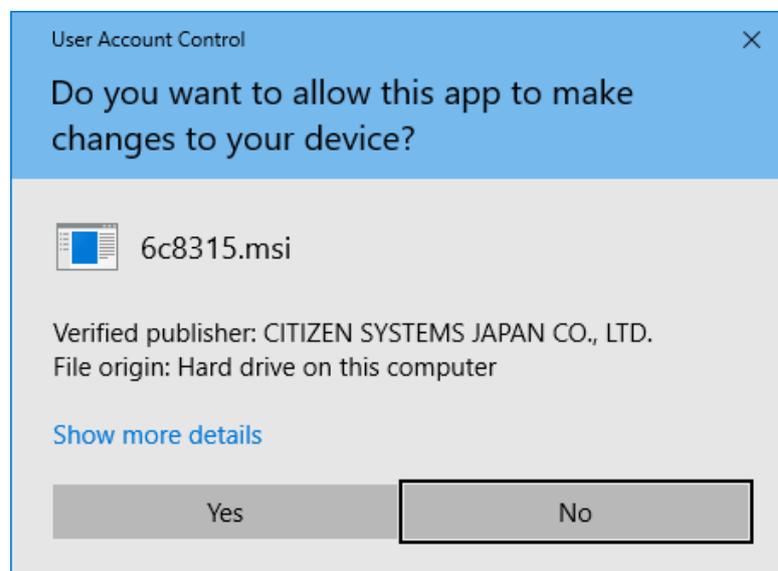
5) The installation progress status window is displayed.
   (It may take longer time to install depending on the environment or specifications of the terminal.)
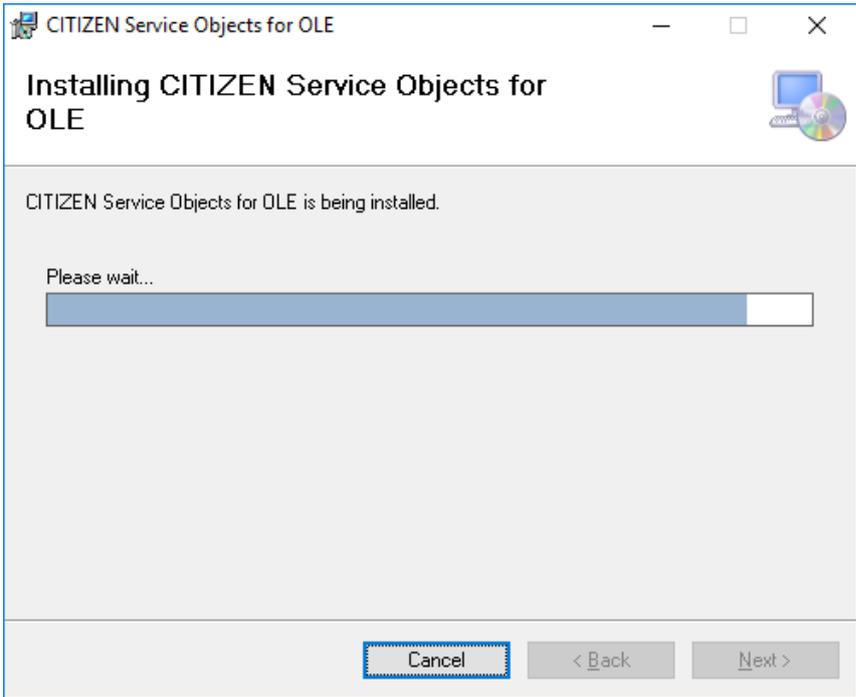
6) When the installation is successful, "Installation Completed" window is displayed.
   Click [Close].
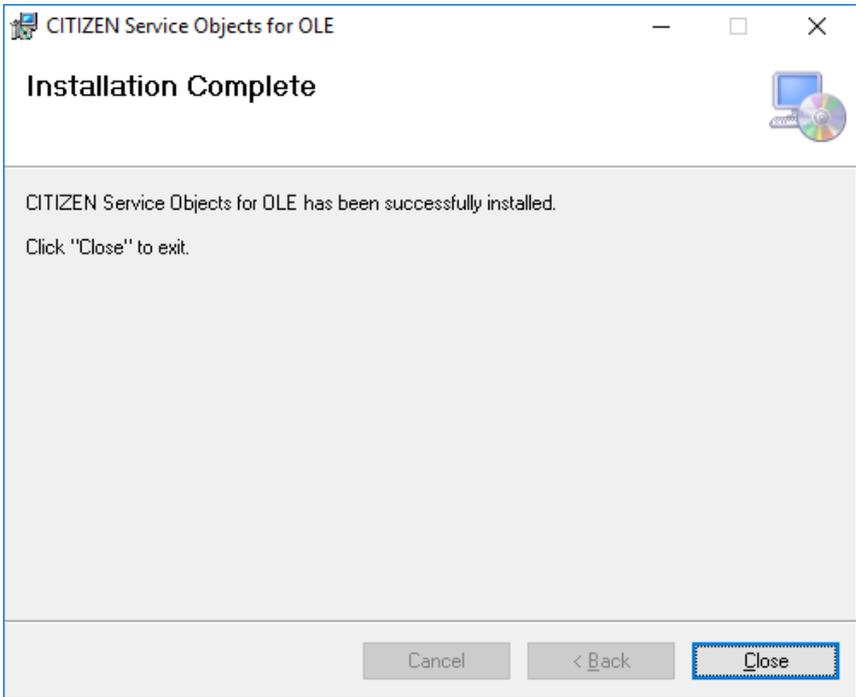
2.2. Configuration of Installation Files

The following provides the description on the installation files of this product.

"Install Folder" \CITIZEN\CITIZEN Service Object

—— BcWidth.DLL	(Enhanced Library of service object)
—— CBMSocketMon.DLL	(Ethernet interface socket monitor)
—— CBMPortMon.DLL	(Port Monitor)
—— CSJTSO.DLL	(Service object)
—— ConfigurationUtility.EXE	(OPOS driver setting tool)
—— ConfigurationUtility.EXE.manifest	(Manifest file)
—— Japanese.DLL	(Resource of OPOS driver setting tool)
—— CSJCheckHealth.EXE	(Simple Program to execute some methods)
—— MFC100CHS.DLL	
—— MFC100CHT.DLL	
—— MFC100DEU.DLL	
—— MFC100ENU.DLL	
—— MFC100ESNDLL	
—— MFC100FRA.DLL	(Library of Service object and OPOS driver setting tool)
—— MFC100ITA.DLL	
—— MFC100JPN.DLL	
—— MFC100KOR.DLL	
—— MFC100U.DLL	
—— MFC100.DLL	
—— MSVCR100L	
—— MSVCP100L	
—— OPOSCashDrawer.OCX	(Cash drawer control object)
—— OPOSLineDisplay.OCX	(Line display control object)
—— OPOSPOSPrinter.OCX	(Printer control object)
—— OPOSScanner.OCX	(Barcode scanner control object)
—— OPOSeulaE.RTF	(License Agreement of OPOS driver)
—— ReleaseNotes_EN.txt	(Release Notes file)

* The default setting of the installation folder is as follows.

32 bit operating system: C:\Program Files\CITIZEN\

64 bit operating system: C:\Program Files (x86)\CITIZEN\

2.3. Uninstall

Uninstall of this product is explained.

Deleting System Registry

Physical and logical devices are deleted by Configuration Utility.
For the method of deleting device, refer to the section "3.6 Deleting Device".
* When upgrading this product, retaining the registered device setting is recommended.

Deleting OPOS Driver

1) From the "Add or Remove Programs" in "Control Panel", select "CITIZEN Service Objects for OLE" and click [Remove].
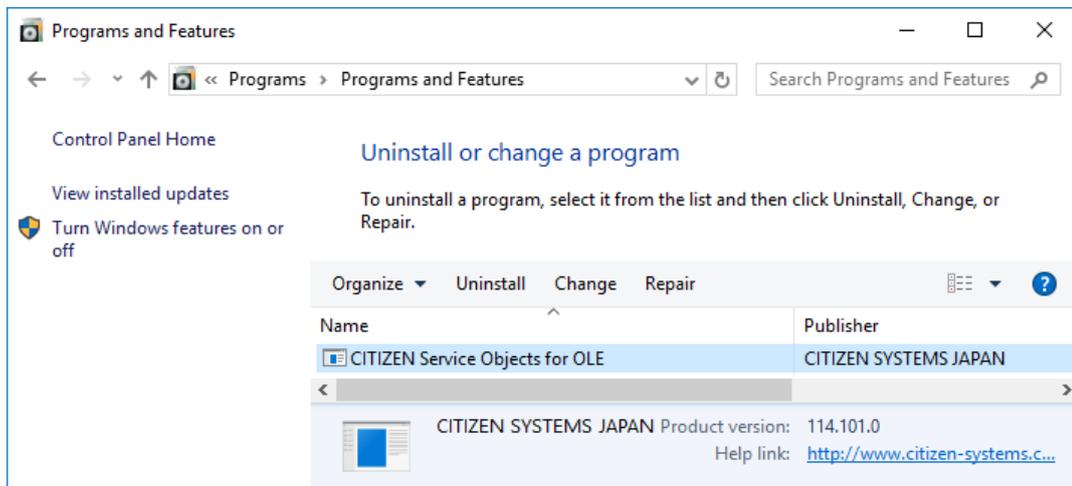
2) A message dialog "Are you sure you want to remove Citizen Systems OPOS Driver from your computer?" is displayed.
Click [Yes (Y)].   If you click [No (N)], deleting this program is cancelled.
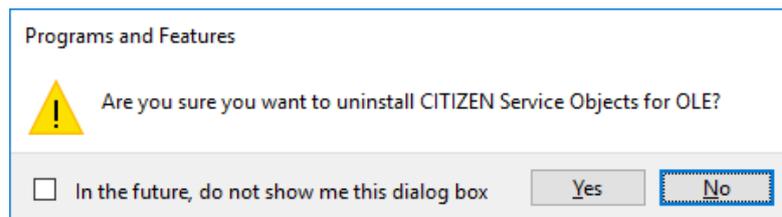
3) A dialog indicating the progress of uninstall process is displayed.
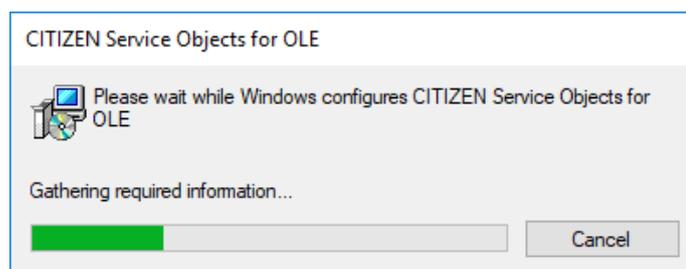
4) When the uninstall procedure is finished successfully, "Citizen Systems OPOS Driver" is removed from the "Add or Remove Programs" list.

3. OPOS Driver Setting Tool

This section provides the description of the method of using Configuration Utility.   When this driver is installed, a shortcut icon is registered in the Windows Start Menu.

"Start" → "Program" → "CITIZEN" → "OPOS 1.14" → "OPOS Configuration Utility"

Main Screen
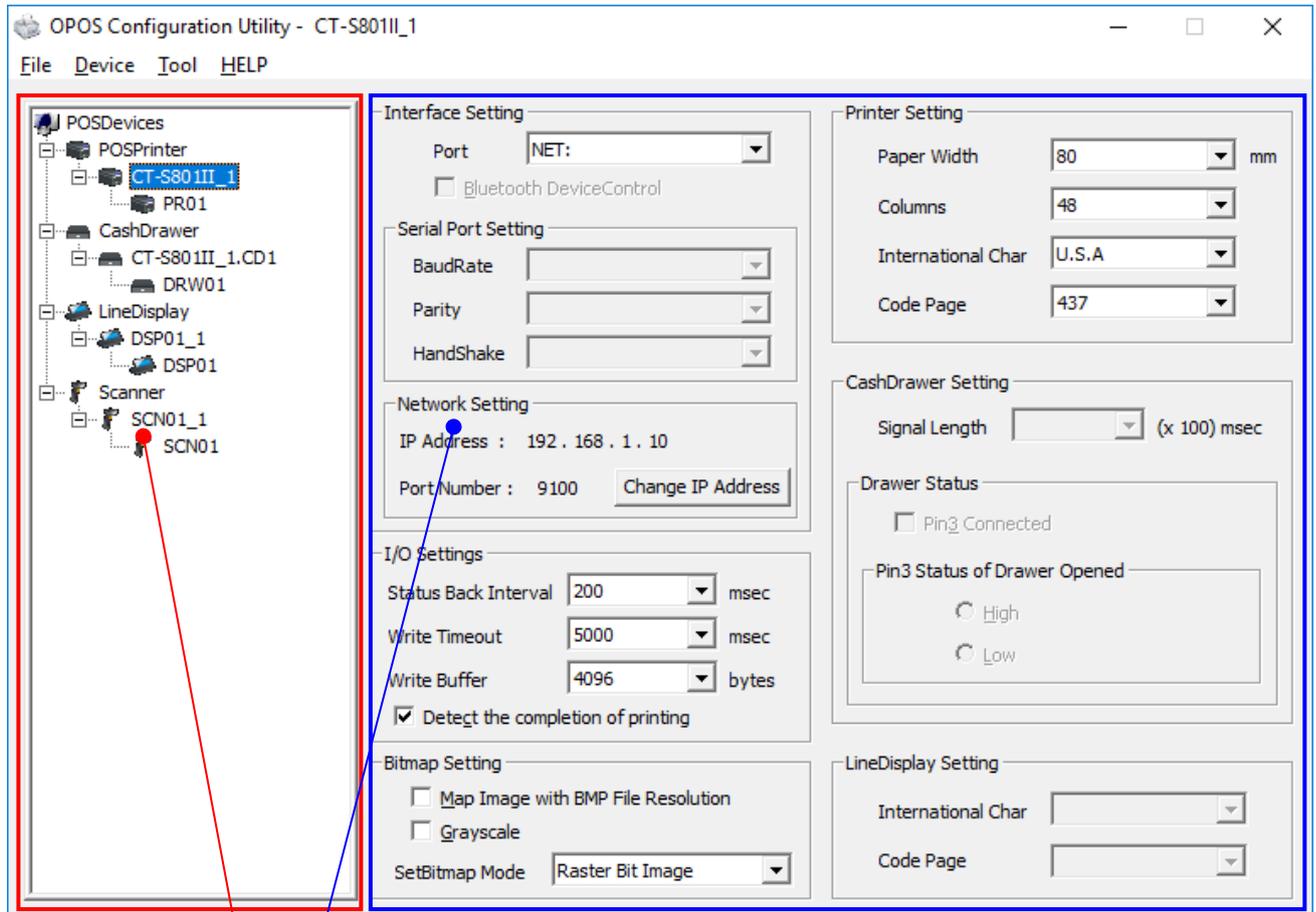
Setting view: Indicates the setting of each device (Direct change of setting is available).

Device view: Tree of physical devices and logical devices is indicated.

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3.1. Adding New Printer and Cash Drawer

1) Click "Add Printer" from the Device menu or the right-click menu (same menu is shown at each case) on the device view.
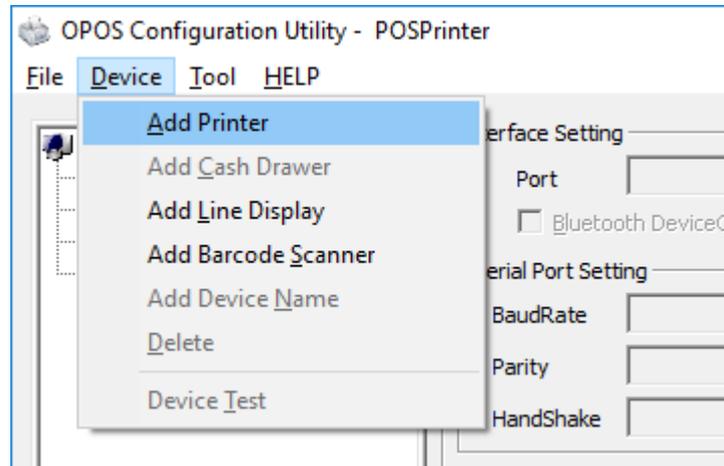
2) "Add Printer" wizard starts.
   Select the model to add and click [Next].
   (Here specify CT-S801II.)
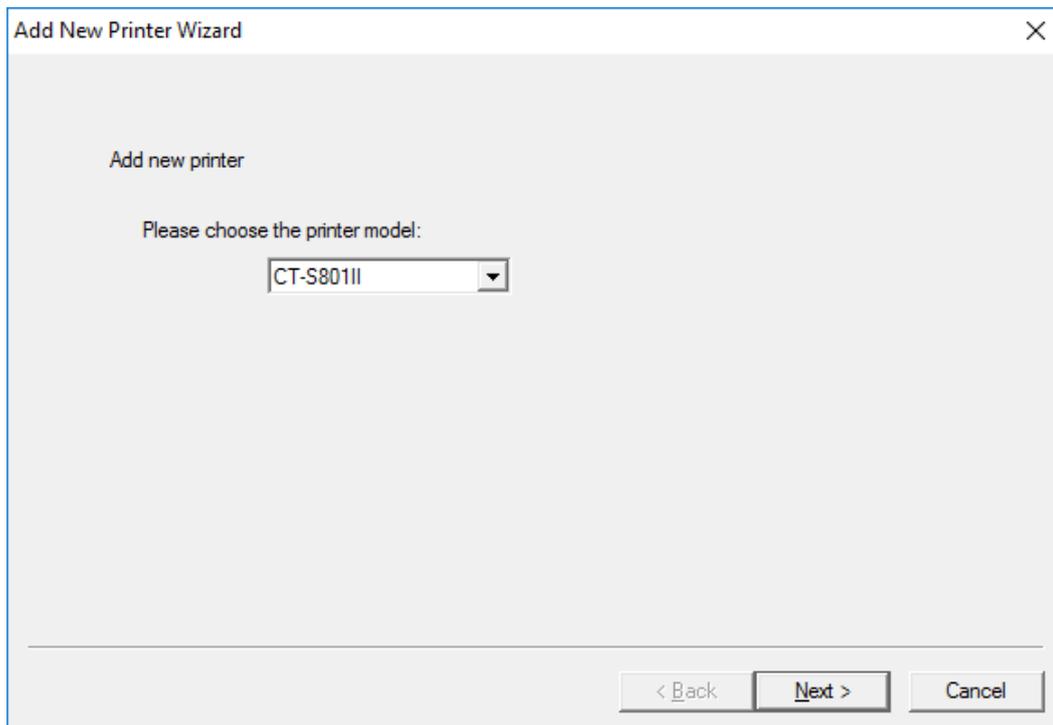
For the function of each printer, refer to the section in "1 Operating Environment".

3) "Choose the printer type" window is displayed.
   Specify the size of paper width used and the maximum number of columns per line referring to the following table.
   This setting is interlocked with the default value of the "RecLineChars/RecLineCharsList" property.
   For details, refer to Application Development Guide of this product.
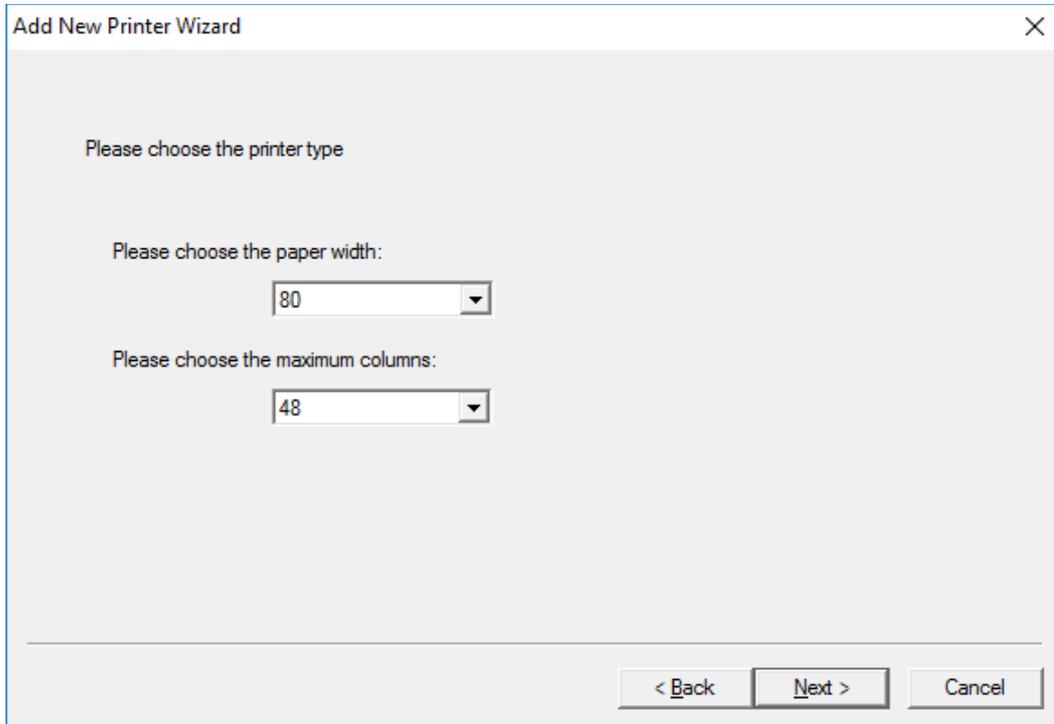
CT-D150 Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT-D151 Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT-E351 Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT-E651 Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT-S251 Series

Paper Size (mm)	Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
58	30	360	30	30, 40, 45
	32	384	32	32, 42, 48
	35	420	35	35, 46, 52
	36	432	36	36, 48, 54

CT-S280 Series

Paper Size (mm)	Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
58	32	384	32	32, 42, 48

CT-S310II Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT- S601/651/801/851 Series

Paper Size (mm)				Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
83	80	60	58	30	360	30	30, 40, 45
				32	384	32	32, 42, 48
				35	420	35	35, 46, 52
				36	432	36	36, 48, 54
				42	512	42	42, 56, 64
				48	576	48	48, 64, 72
				53	640	53	53, 71, 80

CT- S601II/651II/801II/851II Series

Paper Size (mm)				Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
83	80	60	58	30	360	30	30, 40, 45
				32	384	32	32, 42, 48
				35	420	35	35, 46, 52
				36	432	36	36, 48, 54
				42	512	42	42, 56, 64
				48	576	48	48, 64, 72
				53	640	53	53, 71, 80

CT-S751 Series

Paper Size (mm)		Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
80	58	30	360	30	30, 40, 45
		32	384	32	32, 42, 48
		35	420	35	35, 46, 52
		42	512	42	42, 56, 64
		48	576	48	48, 64, 72

CT- S2000 Series

Paper Size (mm)			Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
83	80	60 / 58	30	360	30	30, 40, 45
			32	384	32	32, 42, 48
			35	420	35	35, 46, 52
			36	432	36	36, 48, 54
			42	512	42	42, 56, 64
			48	576	48	48, 64, 72
			53	640	53	53, 71, 80

CT-S4000 Series

Paper Size (mm)			Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
112	82.5	80	42	512	42	42, 56, 64
			48	576	48	48, 64, 72
			55	660	55	55, 73, 82
			60	720	60	60, 80, 90
			69	832	69	69, 92, 104

CT-S4500 Series

Paper Size (mm)				Max. print columns	RecLineWidth	RecLineChars	RecLineCharsList
112	82.5	80	58	30	360	30	30, 40, 45
				32	384	32	32, 42, 48
				35	420	35	35, 46, 52
				36	432	36	36, 48, 54
				42	512	42	42, 56, 64
				48	576	48	48, 64, 72
				55	660	55	55, 73, 82
				60	720	60	60, 80, 90
				69	832	69	69, 92, 104

After setting the above, click [Next].

4) "Details of settings" window is displayed.
   Settings of each item are as shown below.

Status Back interval
   Set the polling interval for acquiring printer status.
   Setting range: 100 to 900msec

Write Timeout
   Set the write timeout for output port.
   Setting range: 5000 to 1,000,000msec

Write Buffer
   Set the size of write buffer for output port.
   Setting range: 0 to 4,000,000msec

Detect the completion of printing
   By setting the set-up to be valid, the success / failure judgment of the method detect the completion
   of printing. For details of this setting, refer to Application Development Guide of this product.

SetBitmap Mode
   Specify the bit image mode of the SetBitmap method. For details of this mode, refer to Application
   Development Guide of this product.
   Set value: Raster Bit Image / NV (Unused key code) / NV (Used key code)

Map image with BMP File Resolution
   By setting the set-up to be valid, output the bit image designated by SetBitmap and PrintBitmap
   according to BMP File resolution.

Grayscale
   When you enable the setting, you can specify the bitmap printing type to the grayscale. For the
   details of this mode, refer to Application Development Guide of this product.

International Char
   Specify an international character table to use.
   Set value: U.S.A/France/Germany/U.K./DenmarkI/Sweden/Itary/SpainI/Japan/Norway/Denmark II/
           Spain II/Latin America/Korea/Vietnam

Code Page
Designate code page (Selection content differs by the model)
Setting Value: 437/ 850/ 852/ 857/ 858/ 860/ 863/ 864/ 865/ 866/ 874/ 932/ 936/ 998/ 999/ 1252/
1258/User Defined
After the above setting, click [Next].

5) The "Interface Settings" window is displayed.
Select the port to use and click "Next".

Interface Settings

Please select the port:

COM1:

☐ Bluetooth DeviceControl

< Back   Next >   Cancel
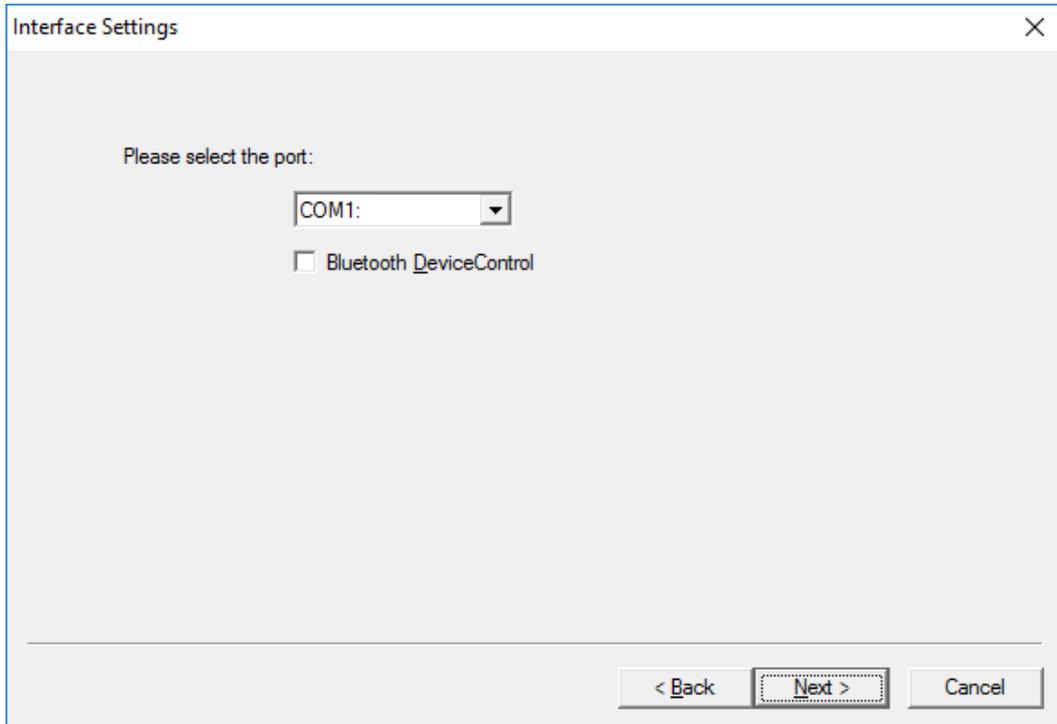
Check "Bluetooth DeviceControl" only when using peripheral devices via IF2-BT03/04. In other cases, uncheck the "Bluetooth DeviceControl".
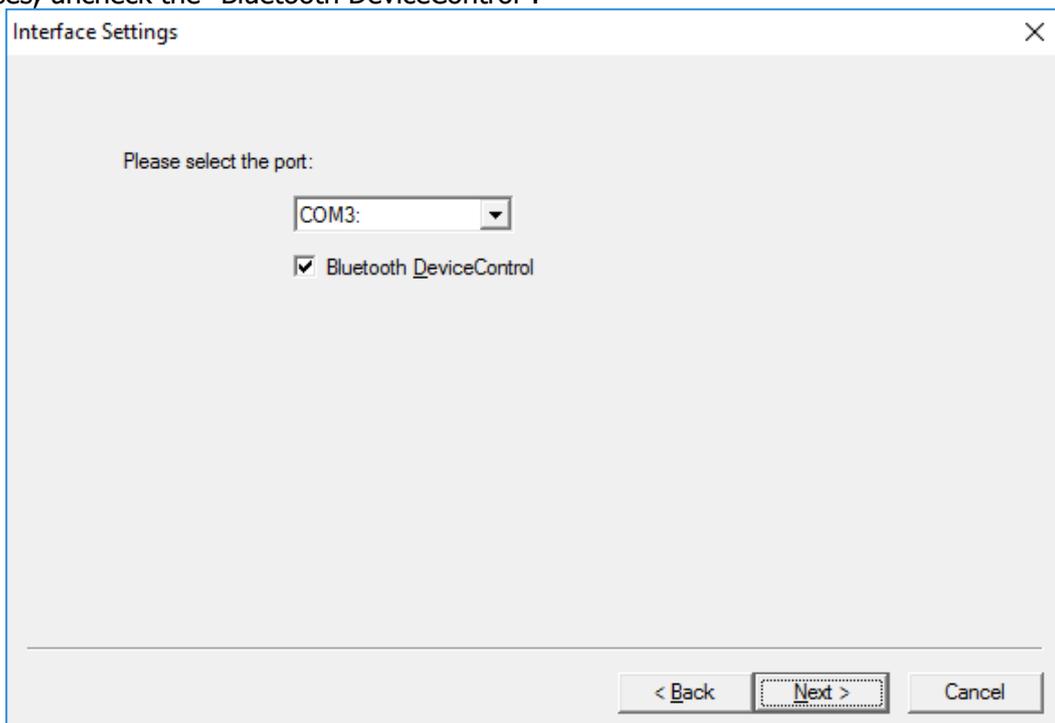
Interface Settings

Please select the port:

COM3:

☑ Bluetooth DeviceControl

< Back   Next >   Cancel

When the COM port is specified

The "Serial Port settings" window is displayed.
Specify "BaudRate", "Parity" and "Handshake", and click "Next".
* Data length of the printer must be 8 bits.
* Communication is not available unless the serial port settings at the printer and at the terminal are the same. For the serial port setting of the printer, refer to the printer User's Guide.

When NET is specified

The "Network Settings" window is displayed. Input the "IP Address" and the "Port Number" to use.
* Please set the time in seconds "180" of the printer network setting "Job receive timeout ".
  For the printer settings, refer to chapter "3.8 Tool menu".

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After above setting, please click [Next].

6) Then the "Add new cash drawer" wizard starts.
   Specify the number of cash drawers connected to the printer and click [Next].
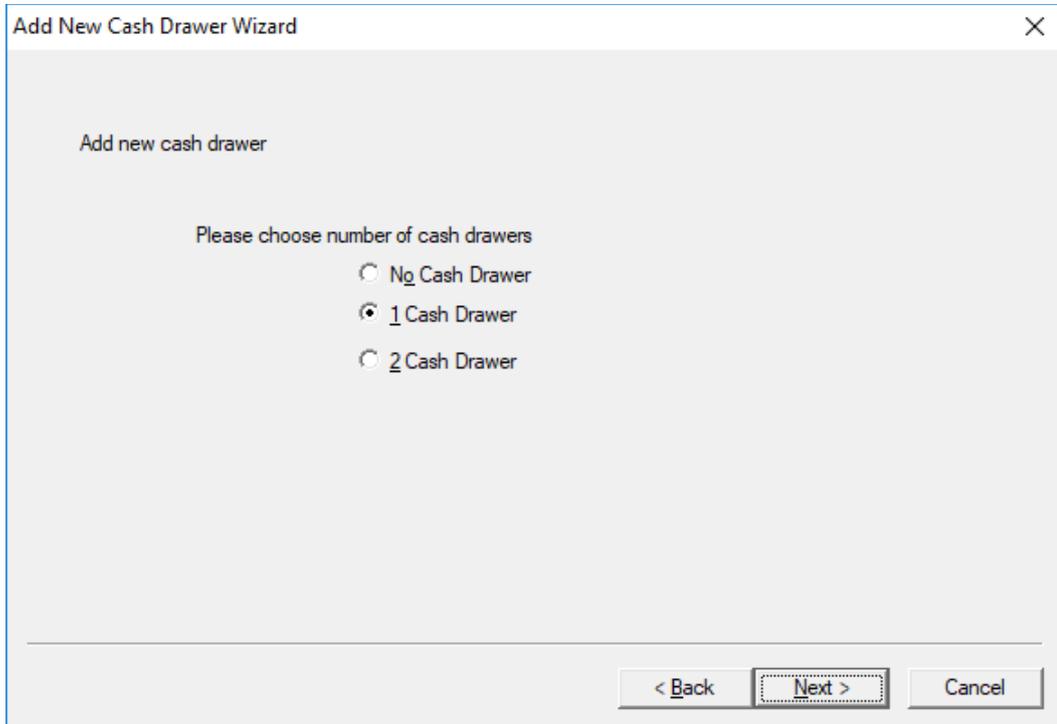
If "One Cash Drawer" or "Two Cash Drawers" is specified, the "First drawer settings" window is displayed.
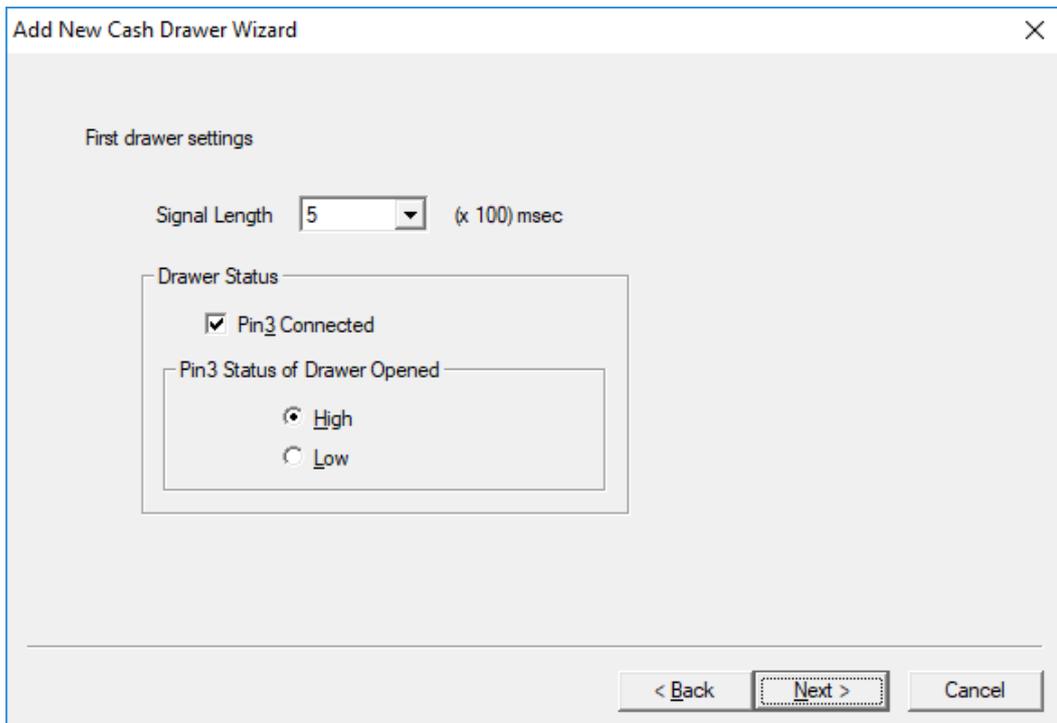
Signal Length
   Specify the time width of the pulse signal output to the solenoid of the cash drawer.

Setting range: 1 to 8 (x 100) msec

Pin3 Connected
Check this when the pin 3 (drawer switch input) of the drawer kick connector is connected.

Pin3 Status of Drawer Opened
Specify the drawer switch input signal level with cash drawer open.
Setting value: High/Low

After the above setting, click [Next].
* When "Two Cash Drawers" is specified, clicking [Next] causes the "Second drawer settings" window is displayed.

Set the second cash drawer as in the same manner as the above and click [Next].

7) "Finish the printer setting" window is displayed.
Click [Finish].   Here, this tool performs registration processing for system registry.
* It takes some time till registration of system registry is completed.
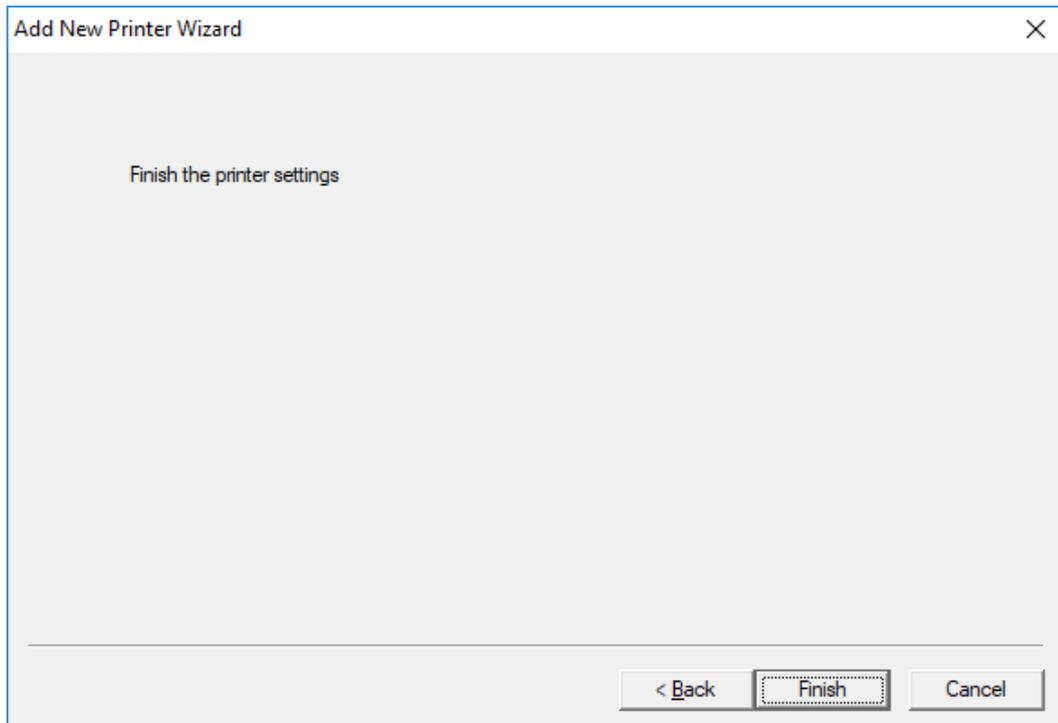
8) When this wizard is finished, the printer and the cash drawer registered in "Device view" and "Setting view" are indicated.
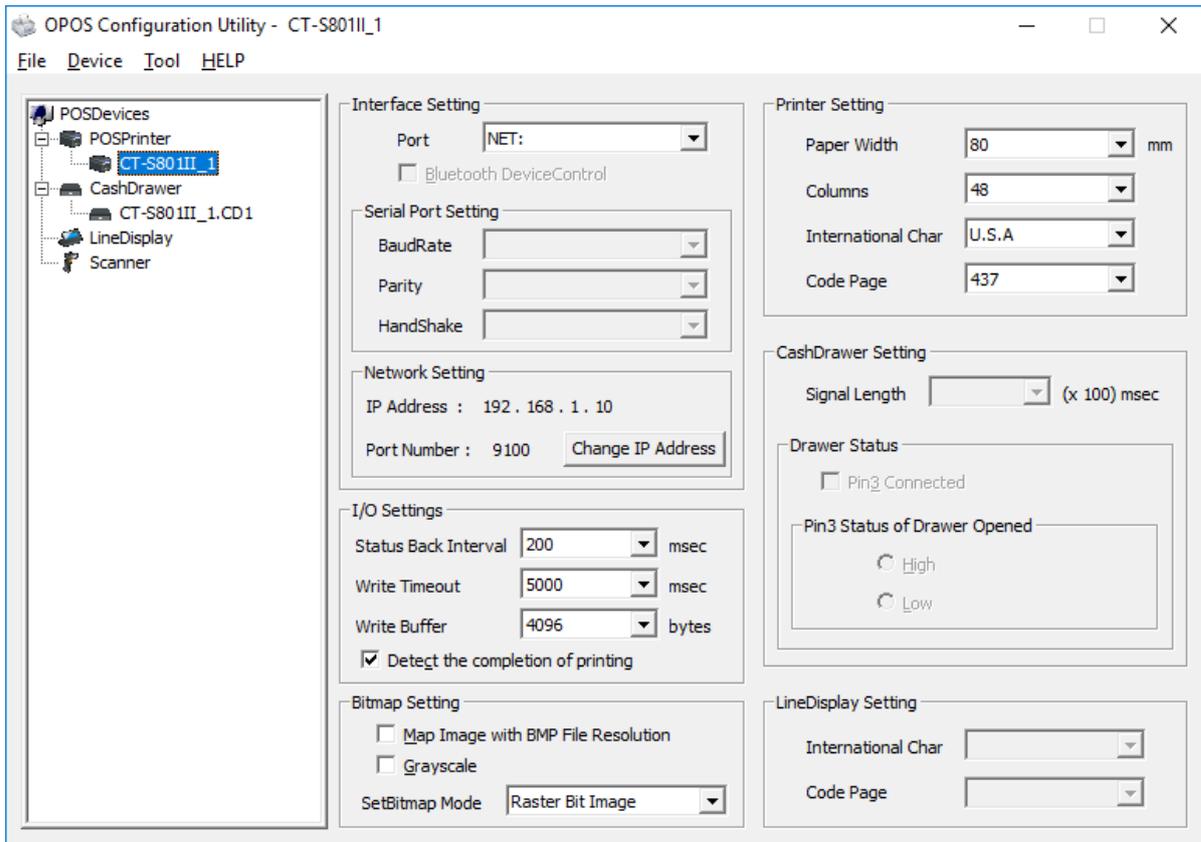
* Setting of each item can be changed directly from Setting View.
  Each time setting of item is changed, the change is reflected to the system registry immediately.
* When changing [IP Address] and [Port Number] in the items of [Network Setting], click [Change IP Address] for setting.

3.2. Adding New Cash Drawer

1) Click "Add Cash Drawer" from the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
   * Be sure to execute Add Cash Drawer after finishing printer registration.
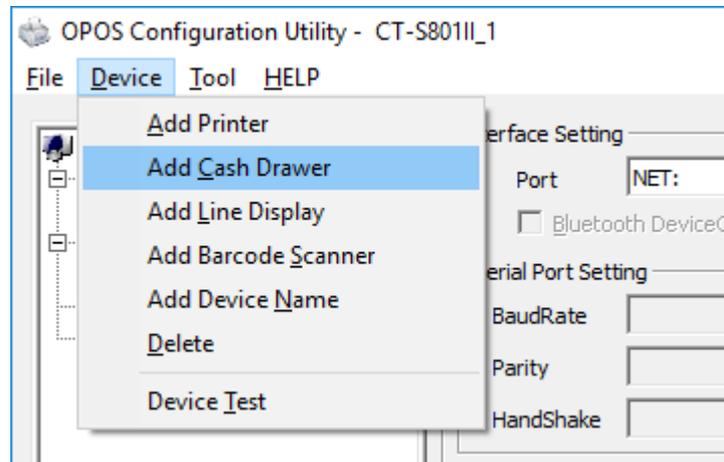
2) "Add new cash drawer" wizard starts.
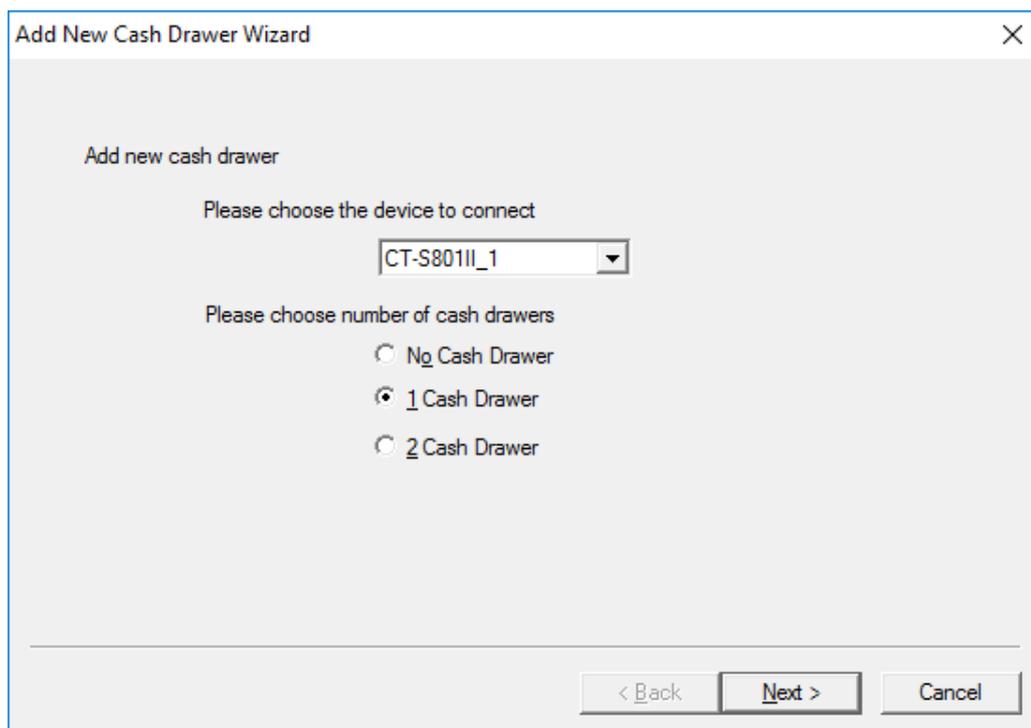
Following this step, refer to the description in "6) Then the "Add new cash drawer" wizard starts" of the section "3.1 Adding New Printer and Cash Drawer" and later, and perform adding drawer procedure in the same manner.

3.3. Adding New Line Display

1) Click "Add Line Display" from the Device menu or the right-click menu (same menu is shown at each case) on the device view.
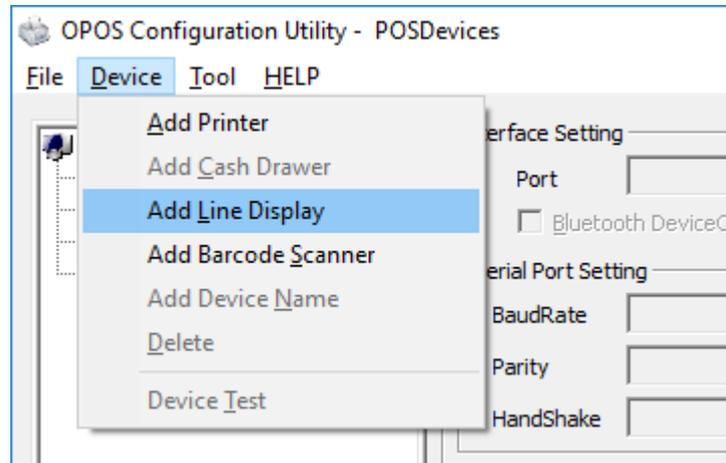
2) "Add New Display Wizard" is activated.
   Enter the model and the logical device name of the line display to be added, and click "Next".
   The default logical device name is the "model name of the line display + serial number of the line display".
   (DSP01 is specified in this example)
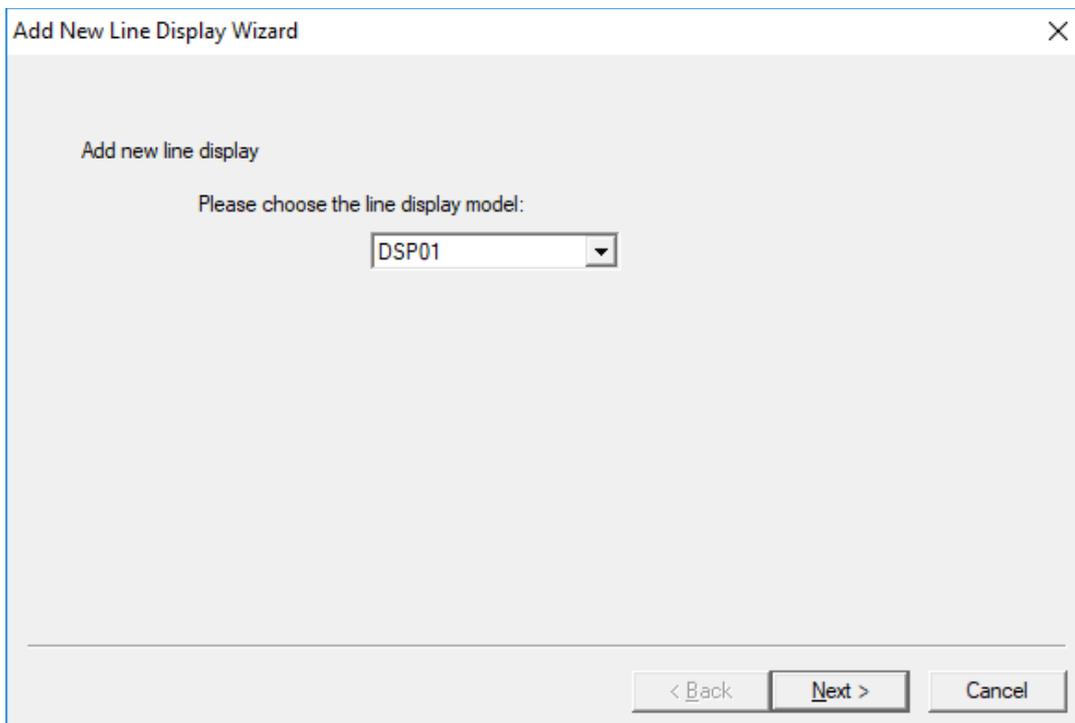
3) "Detail Settings" is activated.
   The setting of each item is as shown below.

Status Back Interval
You can specify the polling interval to obtain the line display status.
Setting range: 100 – 2000 msec

Write Timeout
You can specify the timeout period for the writing to the output port.
Setting range: 5,000 - 1,000,000 msec

International Char
You can specify the international characters. (The selections vary by the model)
        Setting Values: U.S.A / France / Germany / U.K. / Denmark I / Sweden / Italy / Spain I /
        Japan / Norway / Denmark II / Spain II / Latin America / Korea / Slovenia/Croatia / China
        / Vietnam / Arabia / Russia

Code Page
You can specify the code page. (The selections vary by the model)
        Setting Value: 437 / 720 / 737/ 775 / 850 / 851 / 852 / 853 / 855 / 857 / 858 / 860 / 861
        / 862 / 863 / 864 / 865 / 866 / 869 / 874 / 932 / 936 / 949 / 950 / 1250 / 1251 / 1252 /
        1253 / 1254 / 1255 / 1256 / 1257 / 1258

Specify the above settings and click "Next".

4) The "Interface Settings" window is displayed.
   Select the port to use and click "Next".
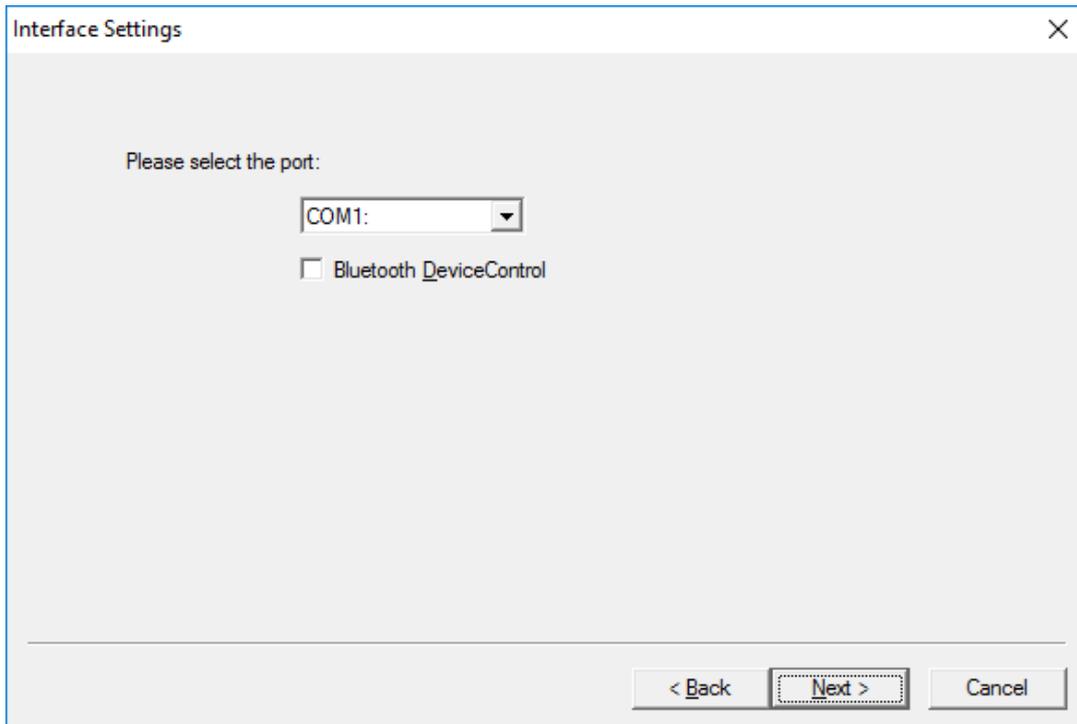
Check "Bluetooth DeviceControl" only when using a Line display via IF2-BT03/04. In other cases, uncheck the "Bluetooth DeviceControl".
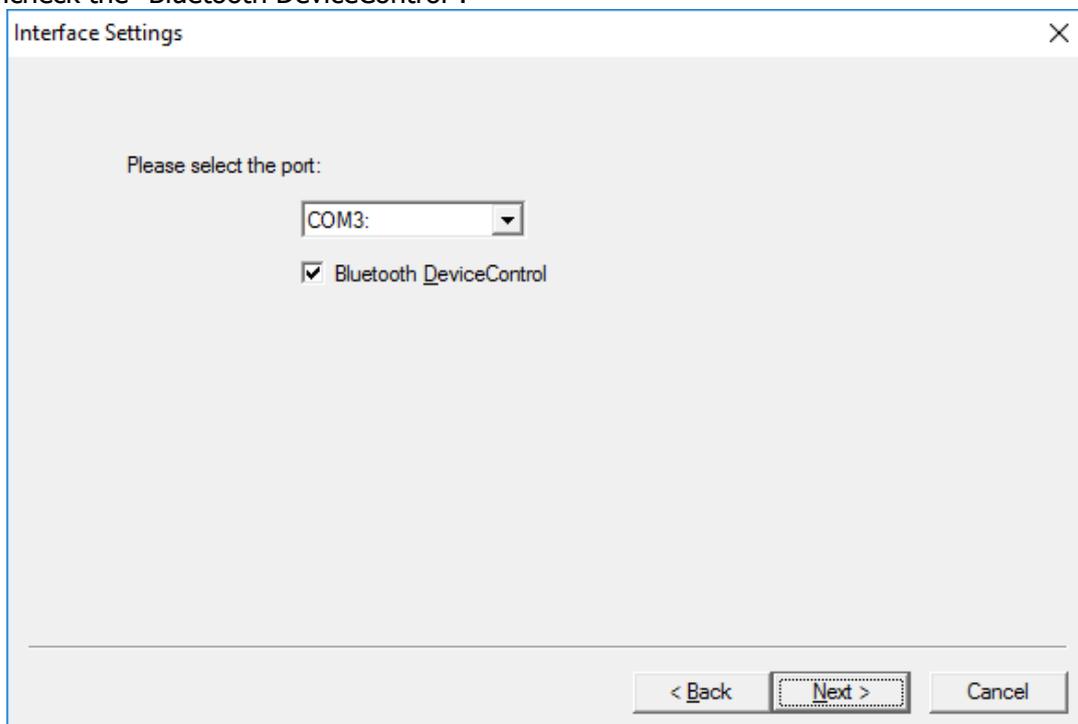
When the COM port is specified

The "Serial Port settings" window is displayed.

Specify "BaudRate", "Parity" and "Handshake", and click "Next".

* Data length of the line display must be 8 bits.
* The communication cannot be performed when the same serial port setting is not made on the line display and the terminal.

For the serial port setting of the line display, refer to the user's manual of the line display.
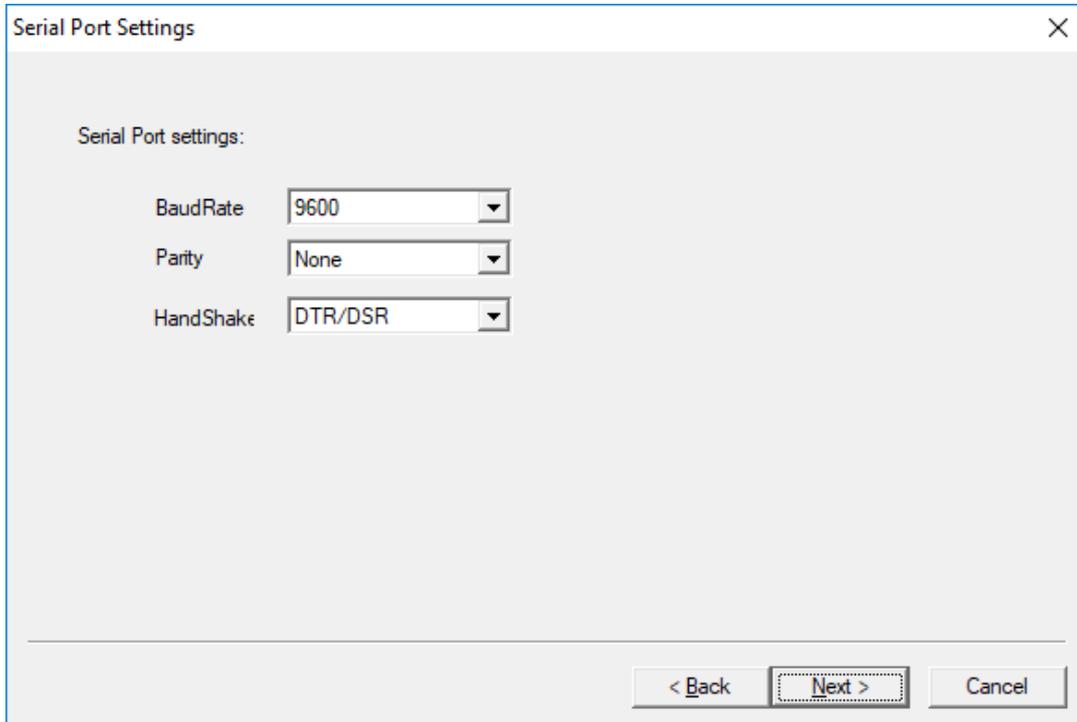
Serial Port Settings	✕
Serial Port settings:	
BaudRate	9600 ▼
Parity	None ▼
HandShake	DTR/DSR ▼
	< Back Next > Cancel

When NET is specified

The "Network Settings" window is displayed. Input the "IP Address" and the "Port Number" to use.
* Please set the time in seconds "180" of the printer network setting "Job receive timeout ".
For the printer settings, refer to chapter "3.8 Tool menu".

Network Settings   ✕

IP Address   192 . 168 . 1 . 10

Port Number   9200

< Back   Next >   Cancel
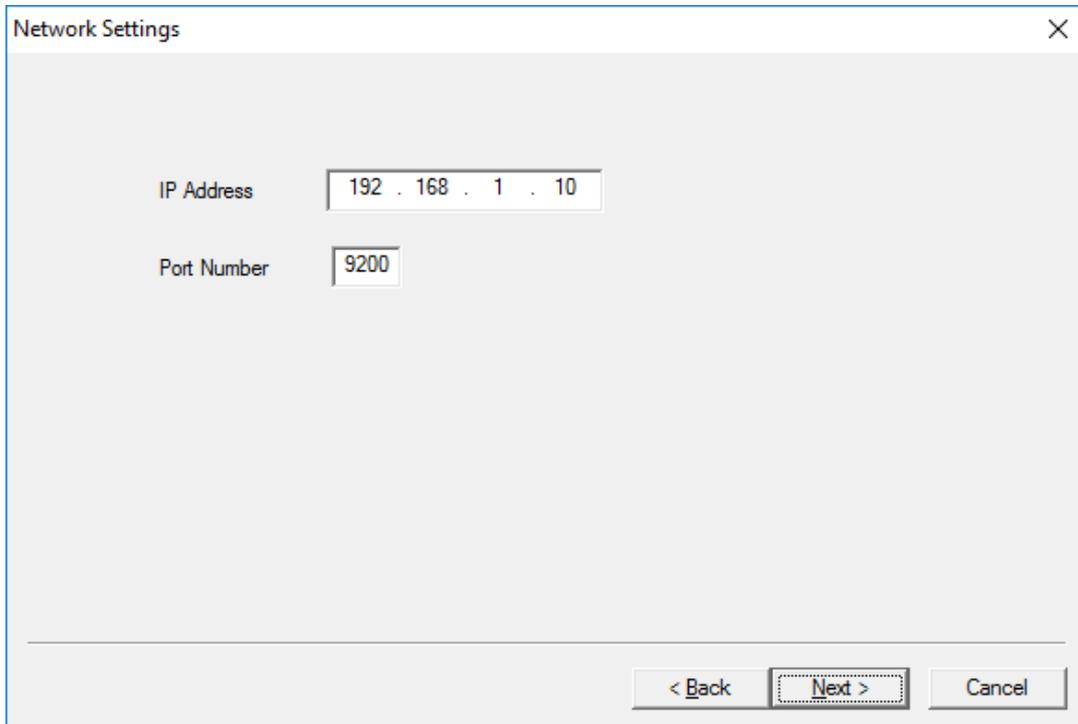
Specify the above settings and click "Next".

5) The "Finish the line display settings" window is displayed.
Click "Finish". The settings are written in the registry.
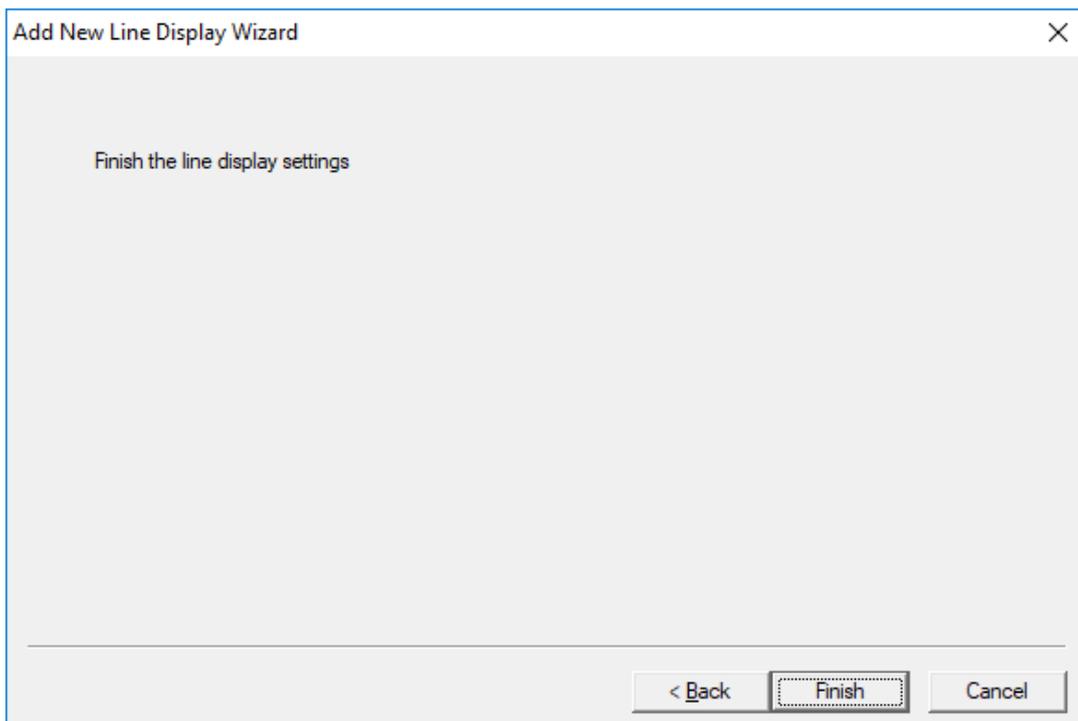
Add New Line Display Wizard   ✕

Finish the line display settings

< Back   Finish   Cancel

6) When this wizard is finished, the line display in "Device view" and "Setting view" is indicated.
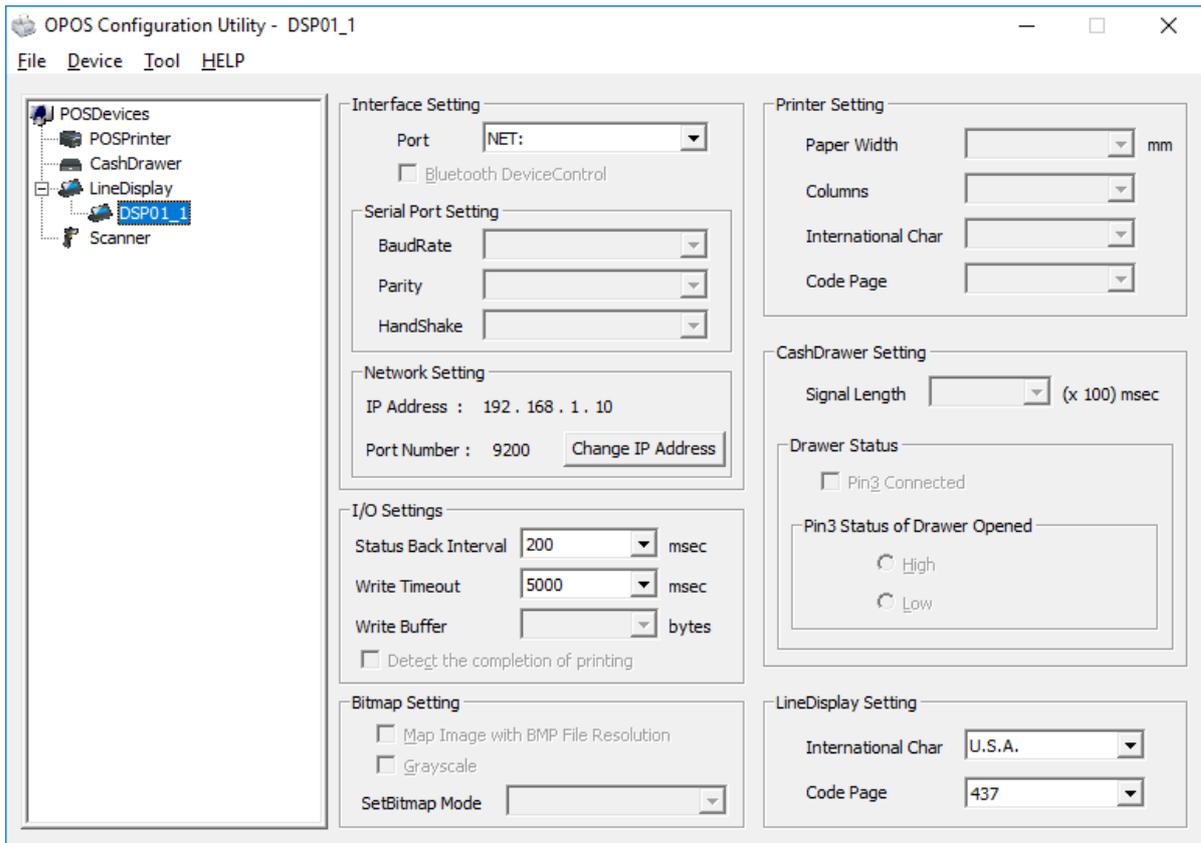

* Setting of each item can be changed directly from Setting View.
Each time setting of item is changed, the change is reflected to the system registry immediately.
* When changing [IP Address] and [Port Number] in the items of [Network Setting], click [Change IP Address] for setting.

3.4. Adding New Barcode Scanner

1) Click "Add Barcode Scanner" in the "Device" menu.
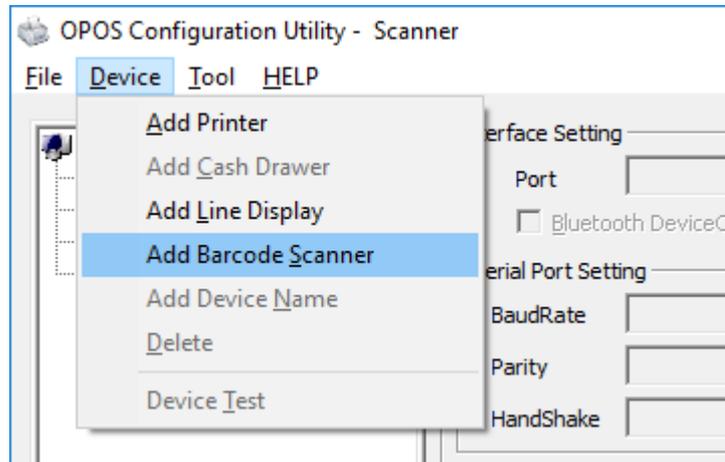
2) "Add New Scanner Wizard" is activated.
Choose the model of the barcode scanner to be added, and click "Next".
The default logical device name is the "model name of the barcode scanner + serial number of the barcode scanner".
(SCN01 is specified in this example)
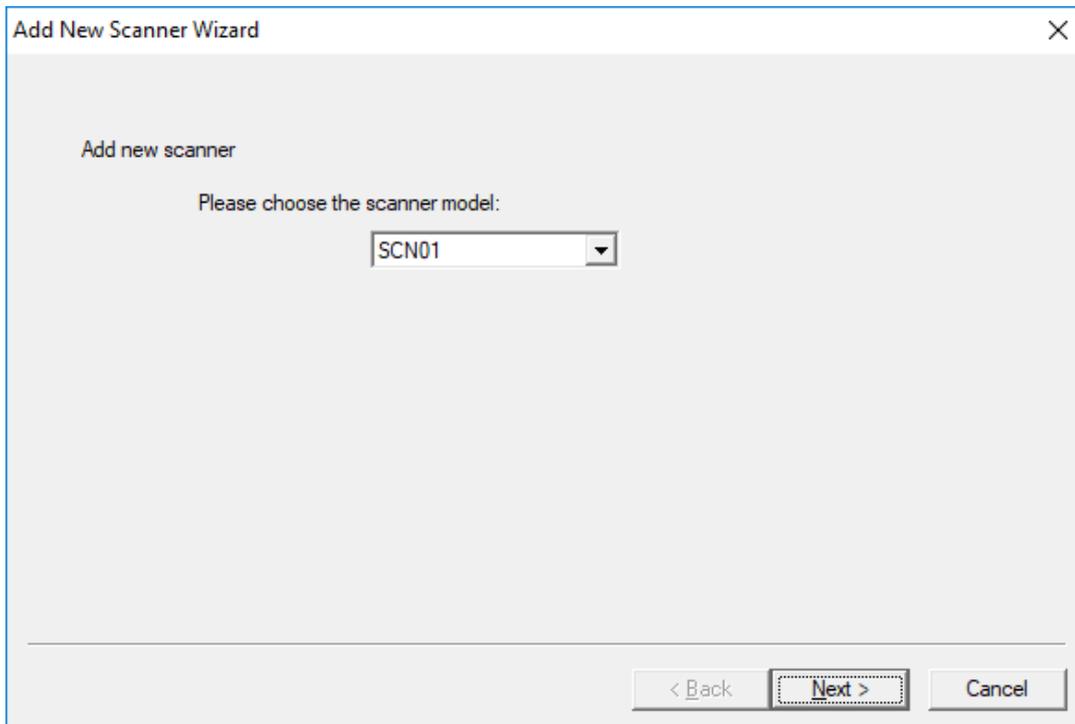
3) "Detail Settings" is activated.
   The setting of each item is as shown below.
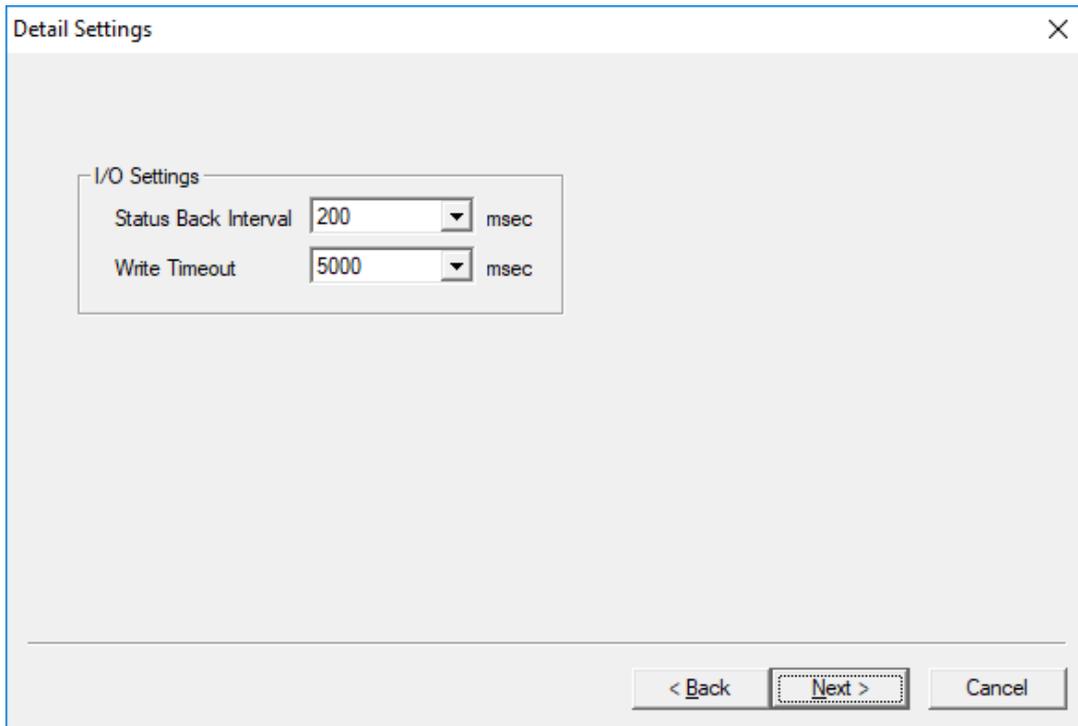


Status Back Interval
   You can specify the polling interval to obtain the barcode scanner status.
   Setting range: 100 – 2000 msec

Write Timeout
   You can specify the timeout period for the writing to the output port.
   Setting range: 5,000 - 1,000,000 msec

Specify the above settings and click "Next".

4) The "Interface Settings" window is displayed.
   Select the port to use and click "Next".

Interface Settings

Please select the port:

COM1:

☐ Bluetooth DeviceControl

< Back   Next >   Cancel
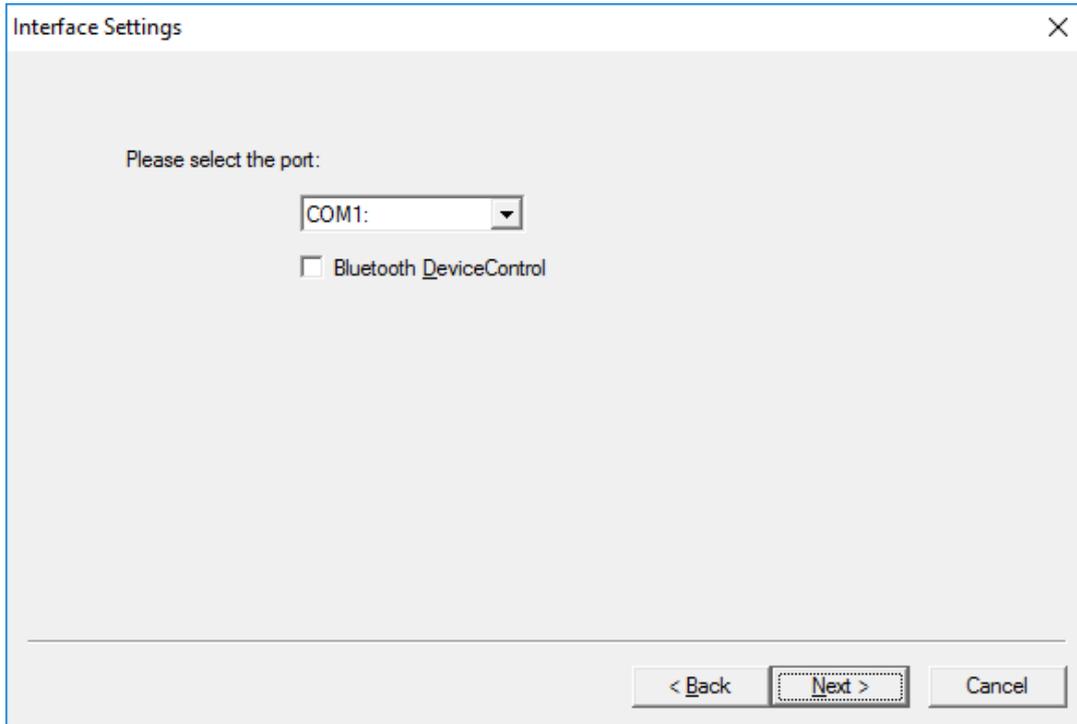
Check "Bluetooth DeviceControl" only when using a Barcode scanner via IF2-BT03/04. In other cases, uncheck the "Bluetooth DeviceControl".
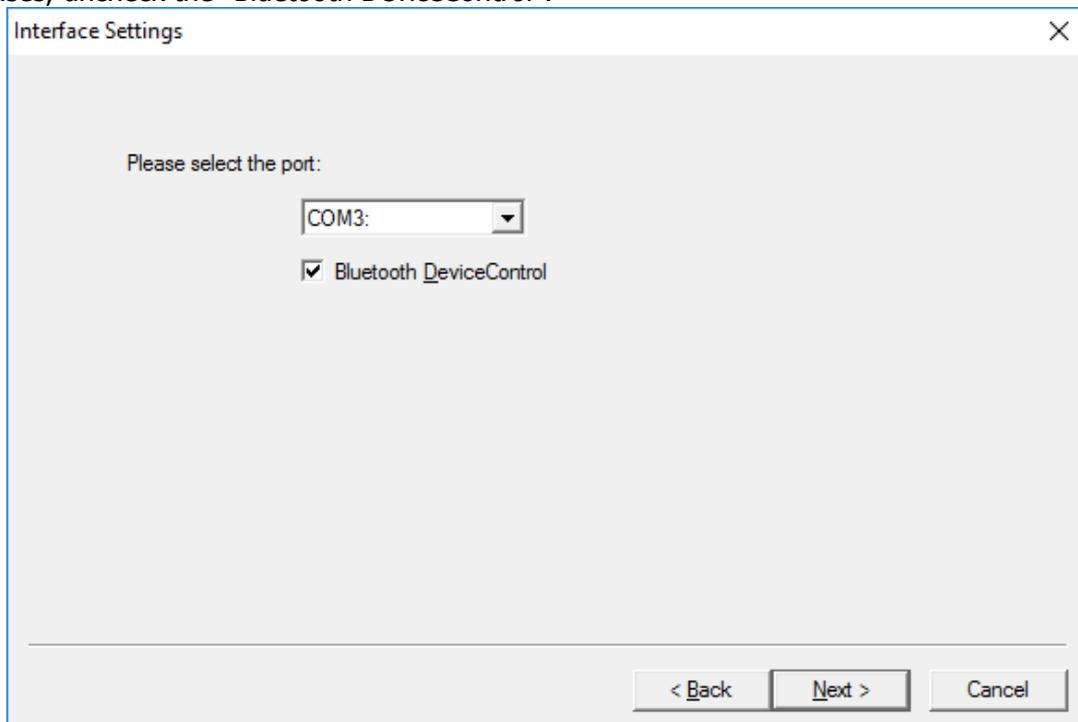
Interface Settings

Please select the port:

COM3:

☑ Bluetooth DeviceControl

< Back   Next >   Cancel

When the COM port is specified

The "Serial Port settings" window is displayed.

Specify "BaudRate", "Parity" and "Handshake", and click "Next".

* Data length of the barcode scanner must be 8 bits.

 * The communication cannot be performed when the same serial port setting is not made on the barcode scanner and the terminal.   For the serial port setting of the barcode scanner, refer to the user's manual of the barcode scanner.

When NET is specified

The "Network Settings" window is displayed. Input the "IP Address" and the "Port Number" to use.
* Please set the time in seconds "180" of the printer network setting "Job receive timeout ".
 For the printer settings, refer to chapter "3.8 Tool menu".

Network Settings ☒

IP Address   192 . 168 . 1 . 10

Port Number   9201

< Back   Next >   Cancel

Specify the above settings and click "Next".

5)   The "Finish the scanner settings" window is displayed.
      Click "Finish". The settings are written in the registry.
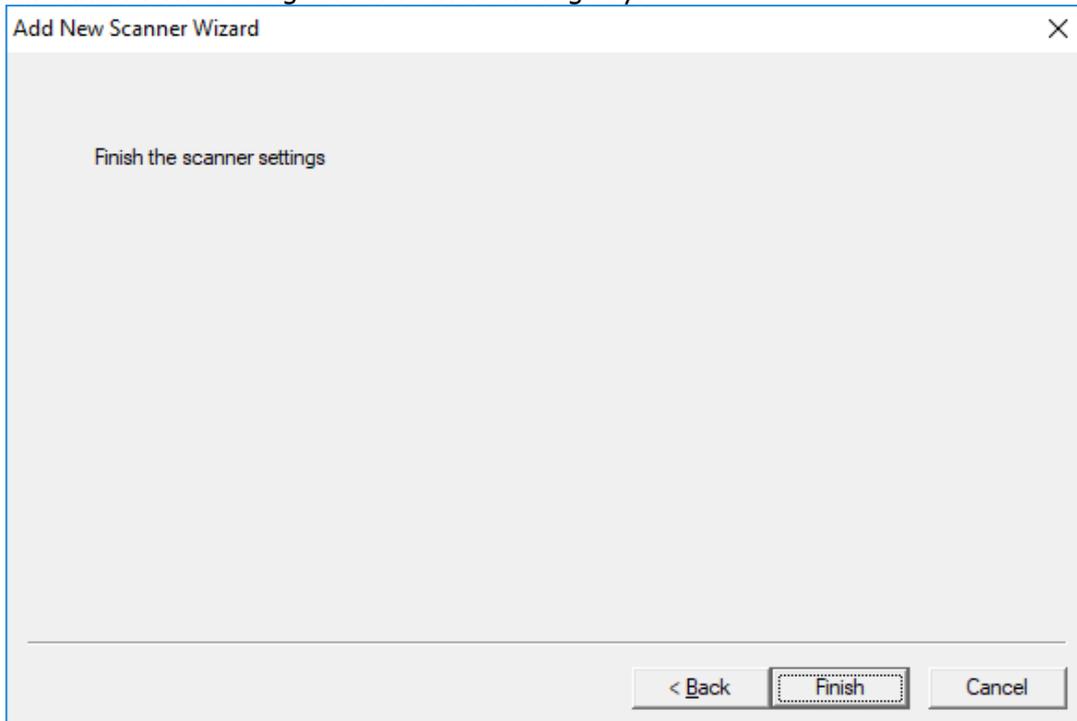
Add New Scanner Wizard ☒

Finish the scanner settings

< Back   Finish   Cancel

6)   When this wizard is finished, the barcode scanner in "Device View" and "Setting View" in indicated.
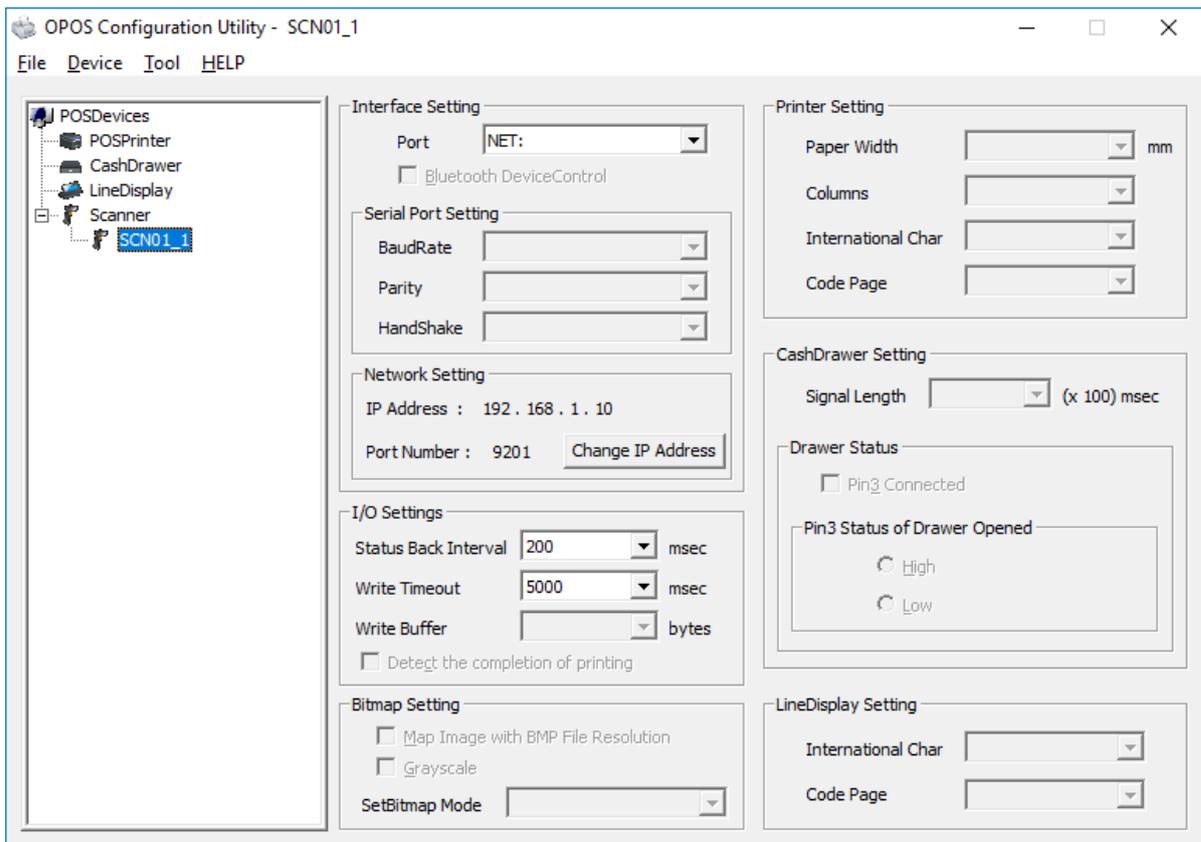
* Setting of each item can be changed directly from Setting View.
   Each time setting of item is changed, the change is reflected to the system registry immediately.
* When changing [IP Address] and [Port Number] in the items of [Network Setting], click [Change IP Address] for setting.

3.5. Adding Logical Device

A logical device name can be assigned to the printer and cash drawer registered.

1) Click "Add Device Name" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
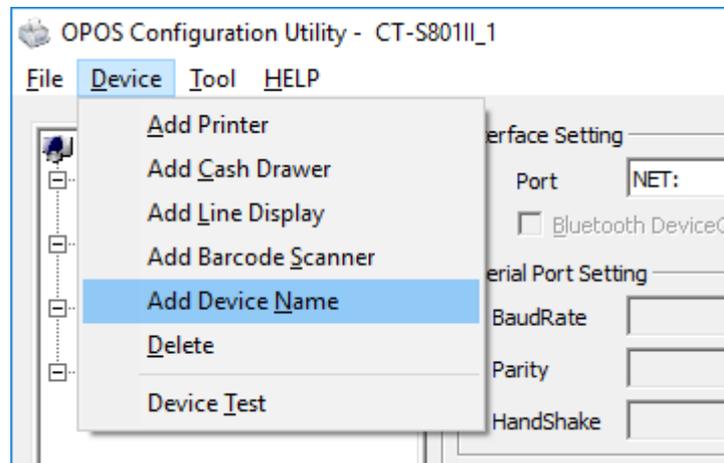
2) "Add Device" window is displayed.
   The printer or cash drawer registered is shown in the list of "Select the device".   Select the object printer or cash drawer and enter a logical device name in the text box of "Enter the device name".
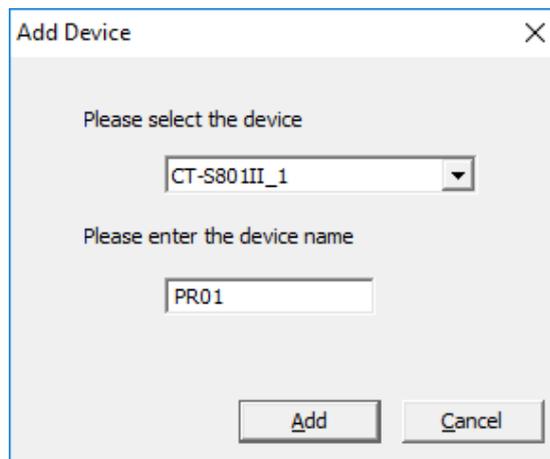
After the above setting, click [Add].   If [Cancel] is clicked, the above setting is discarded.

3) After completion of the above procedure, the added logical device name is indicated on the Device view.
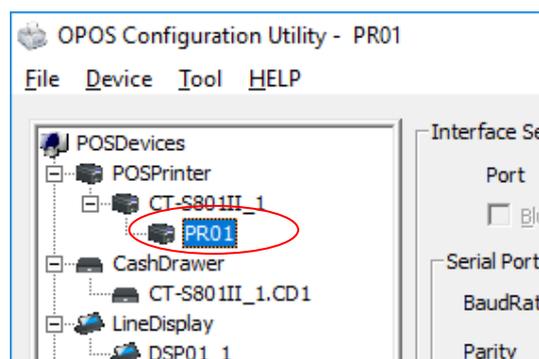
3.6. Deleting Device

This section describes deletion of physical device (printer and cash drawer) registered.

Deleting Printer

1) Select the printer you want to delete from the "POSPrinter" list of Device view.
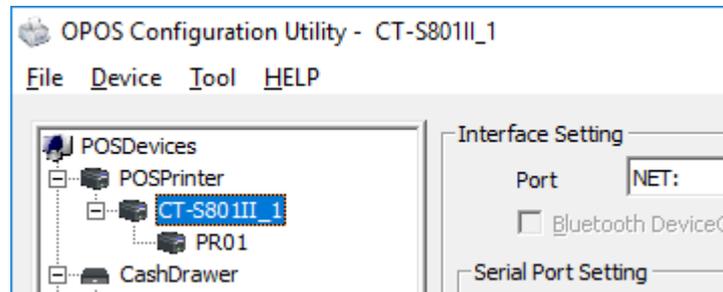
2) Click "Delete Printer" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
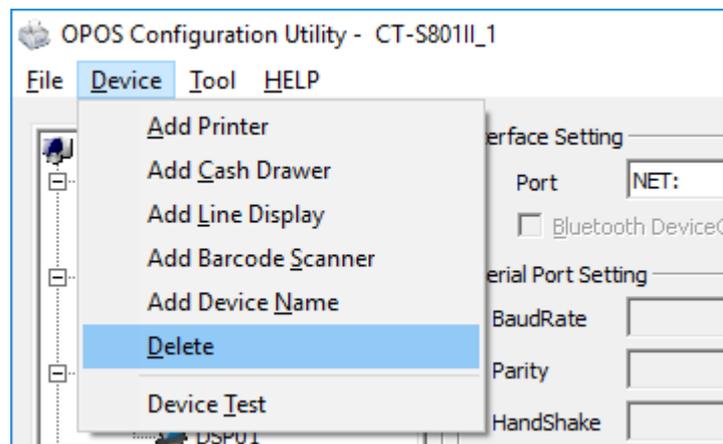

3) Message dialog "Warning – Do you want to delete printer device and assorted cash drawers" is displayed.
   Click [Yes (Y)].   If you click [No (N)], deleting the printer is aborted.
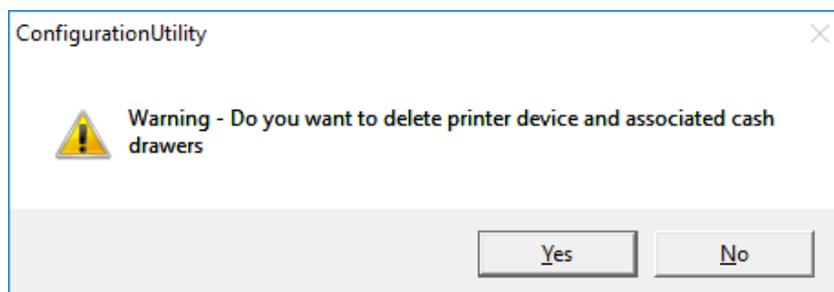
* Once a printer will be removed, its logical device and drawers attached to this printer will be removed, too.

Deleting Cash Drawer

1) Select a cash drawer you want to delete from the "CashDrawer" list of the Device view.
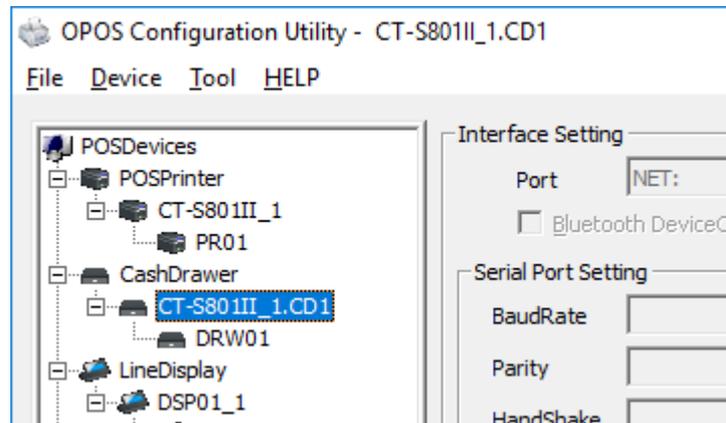
2) Click "Delete Cash Drawer" on the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
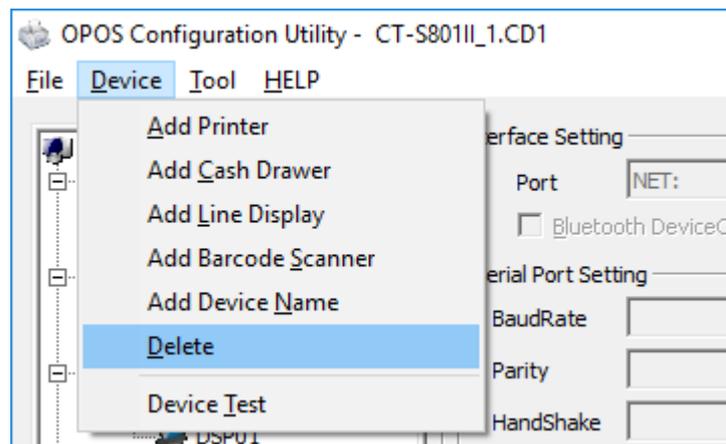
3) Message dialog "Warning – Do you want to delete drawer device and assorted cash drawers" is displayed.
Click [Yes (Y)].   If you click [No (N)], deleting the drawer is aborted.
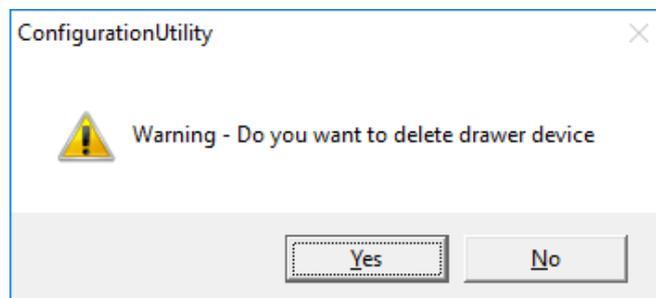
* Once a drawer will be removed, its logical device will be removed, too. (The printer which this drawer was attached will not be removed).

Deleting Display

1) Select the display you want to delete from the "LineDisplay" list of Device view.
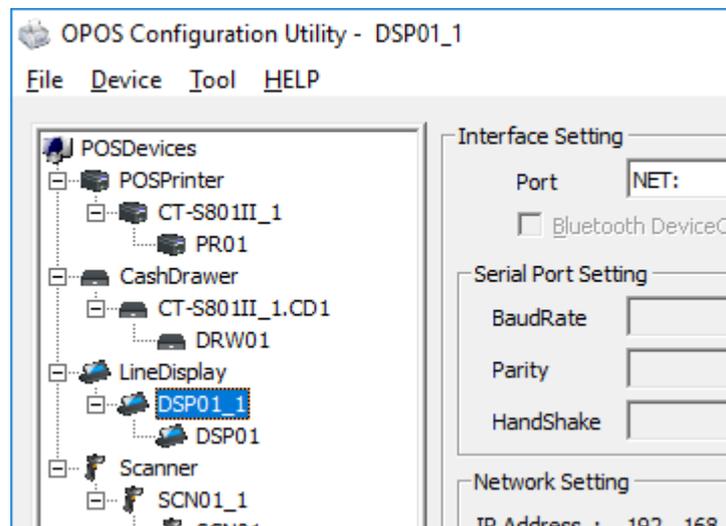
2) Click "Delete" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
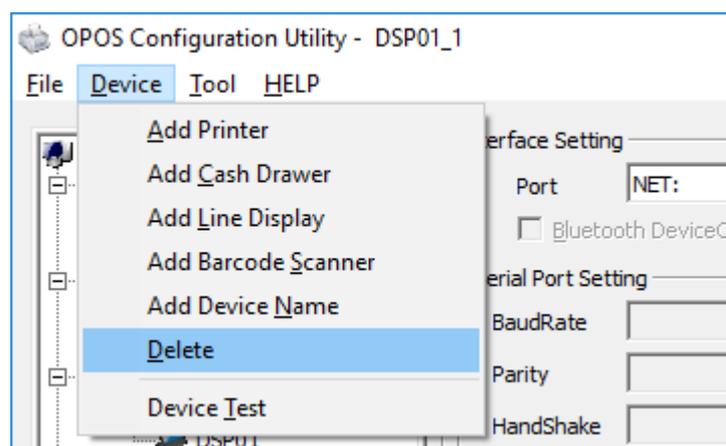
3) Message dialog "Warning – Do you want to delete display device and assorted cash drawers" is displayed.
Click [Yes (Y)].   If you click [No (N)], deleting the printer is aborted.
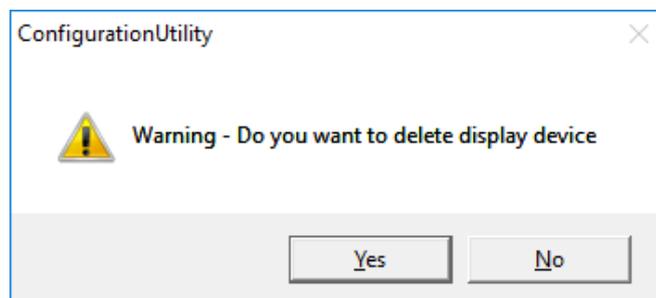
* Once a display will be removed, its logical device will be removed, too.

Deleting Scanner

1) Select the display you want to delete from the "Scanner" list of Device view.
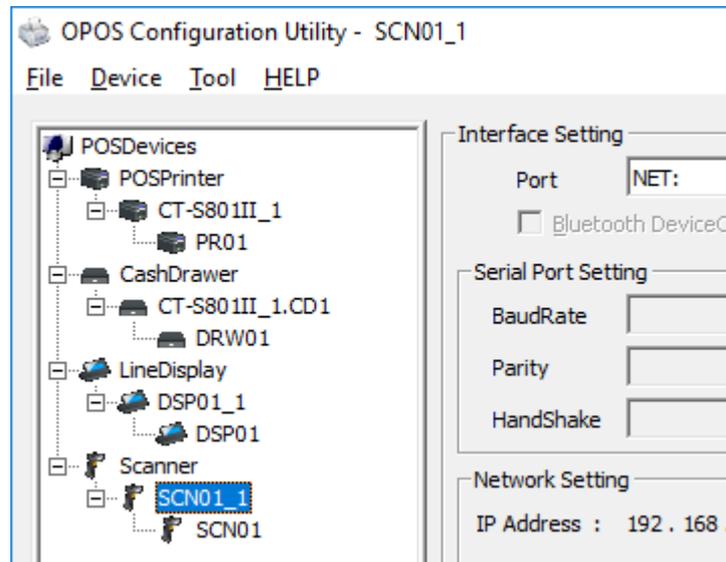
2) Click "Delete" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
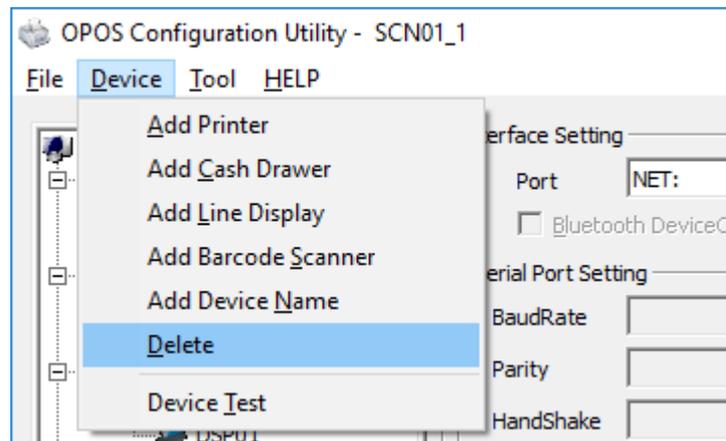
3) Message dialog "Warning – Do you want to delete scanner device and assorted cash drawers" is displayed.
   Click [Yes (Y)].   If you click [No (N)], deleting the printer is aborted.
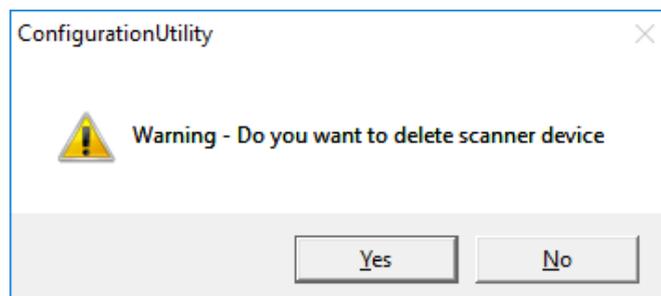
* Once a scanner will be removed, its logical device will be removed, too.

Deleting Logical Device (Printer)

1) Select a logical device to delete from the "POSPrinter" of the Device view.
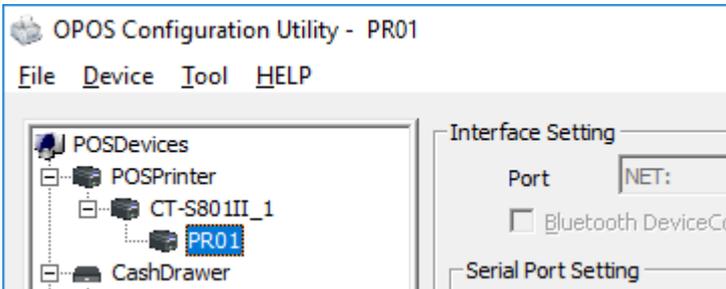
2) Click "Delete" on the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
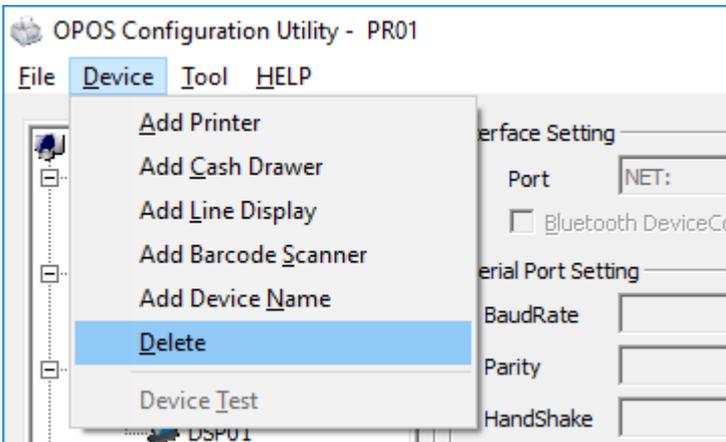
3) Message dialog "Warning – Do you want to delete device name" is displayed. Click [Yes (Y)]. If you click [No (N)], deleting the device name is aborted.
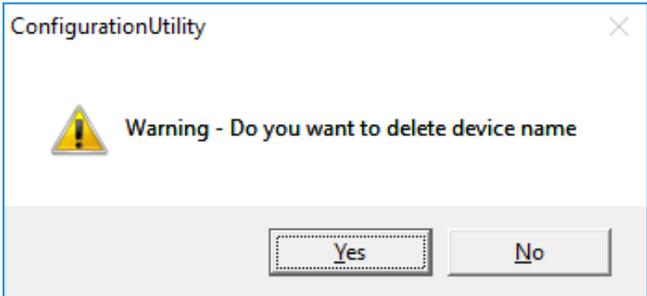
Deleting Logical Device (Cash Drawer)

1) Select a logical device you want to delete from the "CashDrawer" list of the Device view.
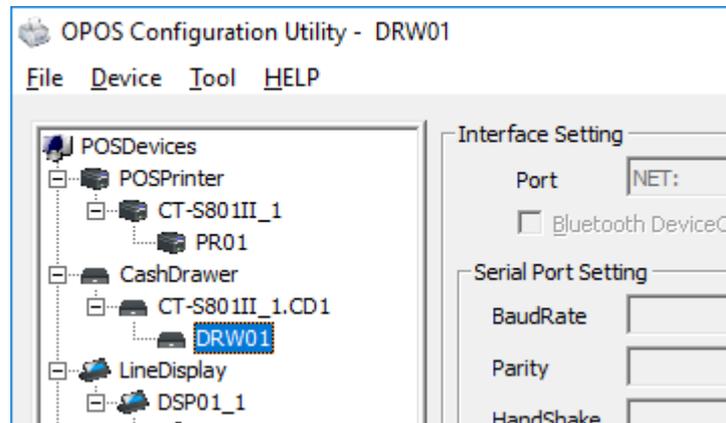
2) Click "Delete" on the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
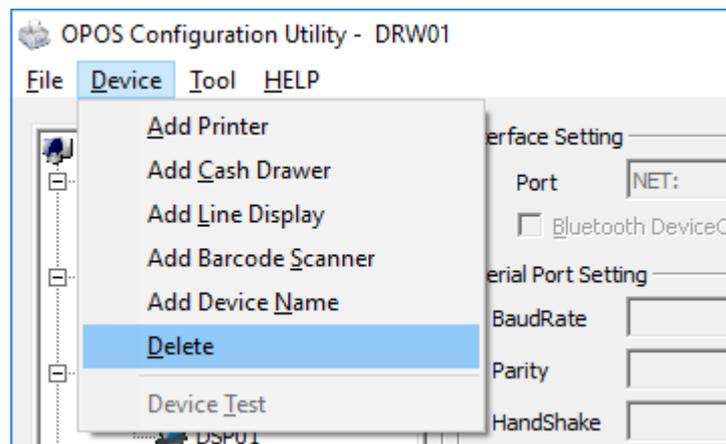
3) Message dialog "Warning – Do you want to delete device name" is displayed.
    Click [Yes (Y)].   If you click [No (N)], deleting the device name is aborted.
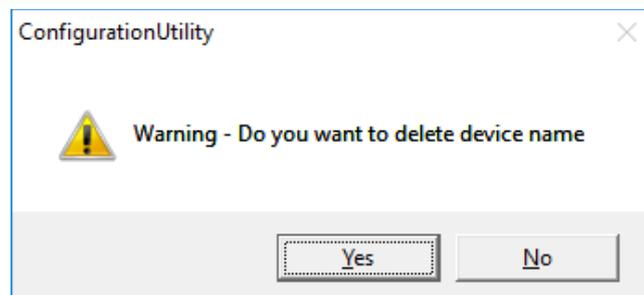
## Deleting Logical Device (Line Display)

1) Select a logical device to delete from the "LineDisplay" of the Device view.
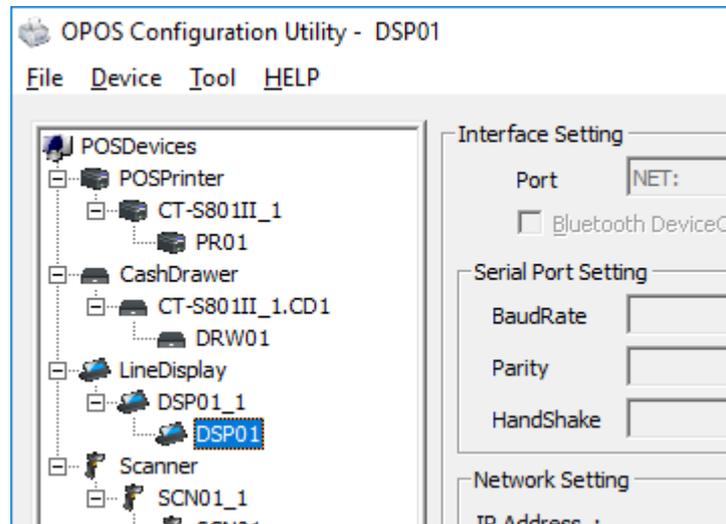
2) Click "Delete" on the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
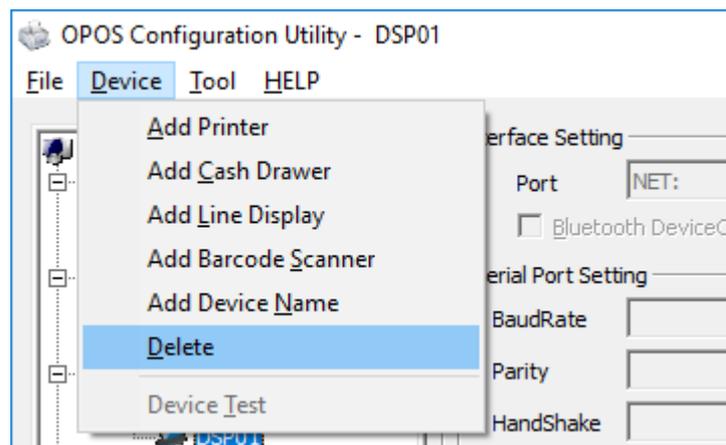
3) Message dialog "Warning – Do you want to delete device name" is displayed.
Click [Yes (Y)].   If you click [No (N)], deleting the device name is aborted.
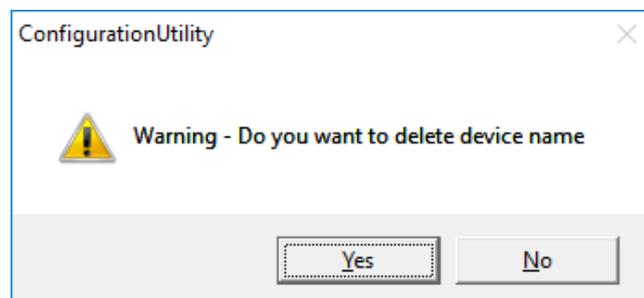
Deleting Logical Device (Scanner)

1) Select a logical device to delete from the "Scanner" of the Device view.
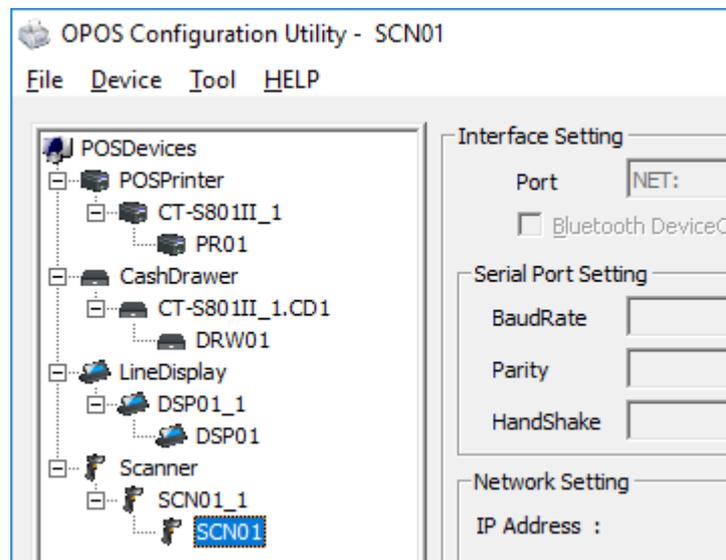
2) Click "Delete" on the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
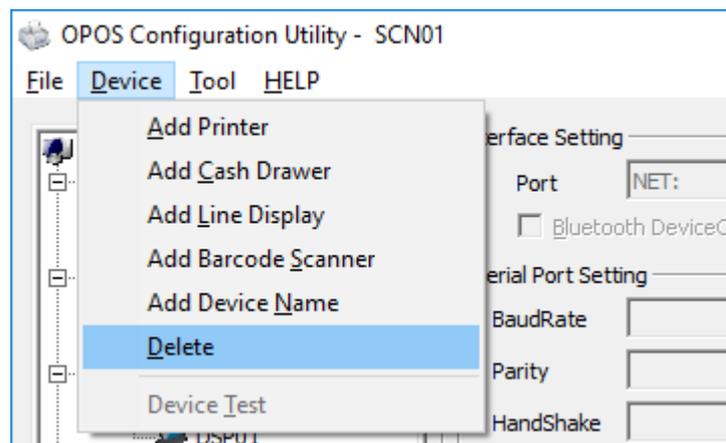
3) Message dialog "Warning – Do you want to delete device name" is displayed.
   Click [Yes (Y)].   If you click [No (N)], deleting the device name is aborted.
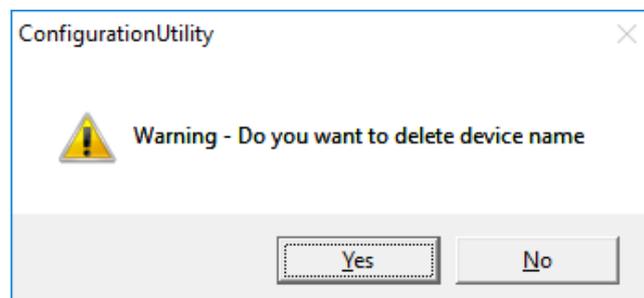
3.7. Testing Device

This section describes test physical device (printer and cash drawer) registered.

Testing Printer

1) Select the printer you want to test from the "POSPrinter" list of Device view.
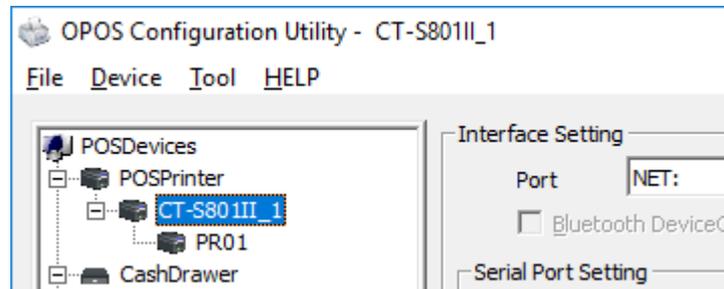
2) Click "Device Test" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
   This Configuration　Utility executes some methods to diagnose selected printer.
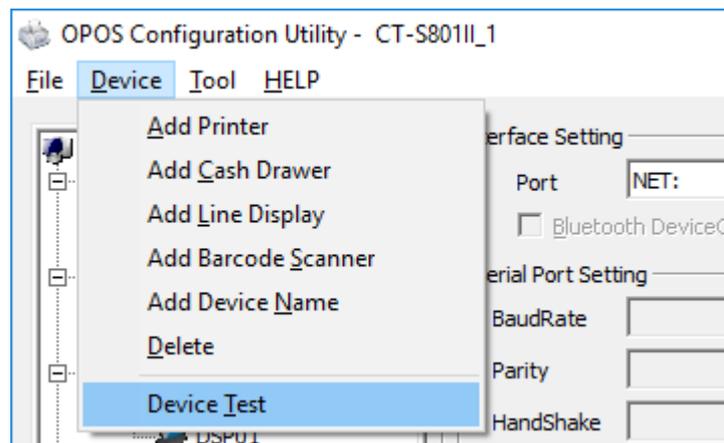
Testing Cash Drawer

1) Select a device you want to test from the "CashDrawer" list of the Device view.
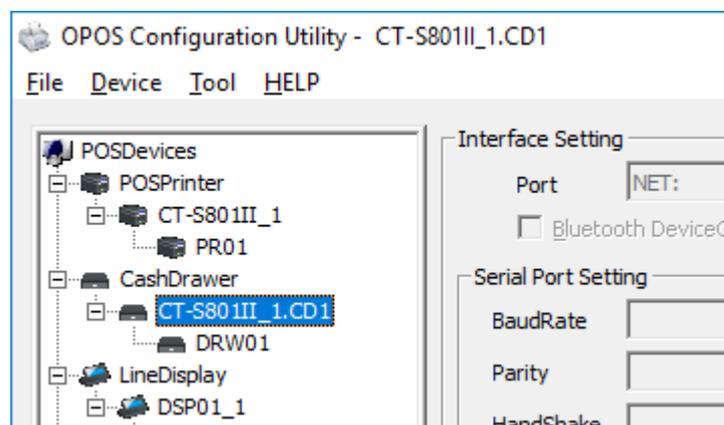
2) Click "Device Test" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.

This Configuration Utility executes some methods to diagnose selected cash drawer.
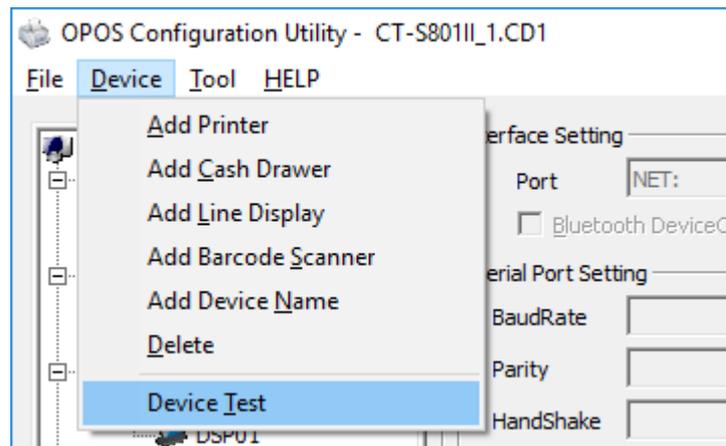
Testing Line Display

1) Select a device you want to test from the "LineDisplay" list of the Device view.
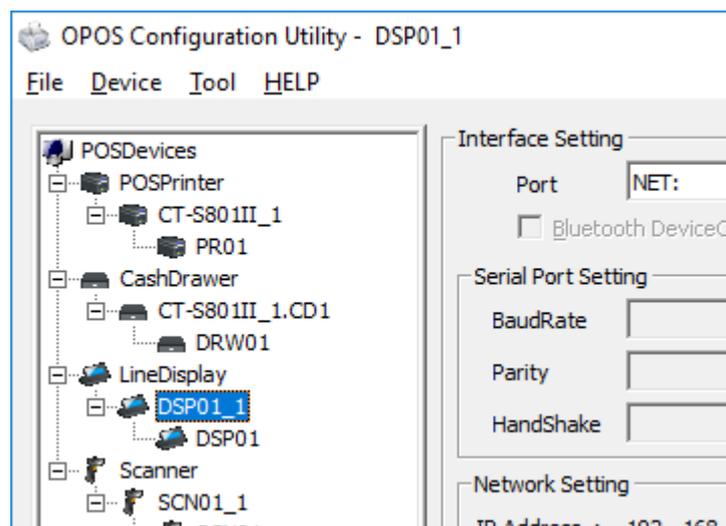
2) Click "Device Test" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
   This Configuration Utility executes some methods to diagnose selected cash drawer.
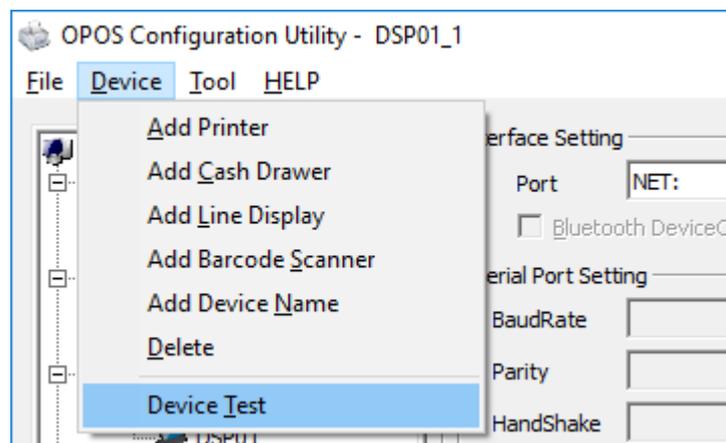
Testing Barcode Scanner

1) Select a device you want to test from the "Scanner" list of the Device view.
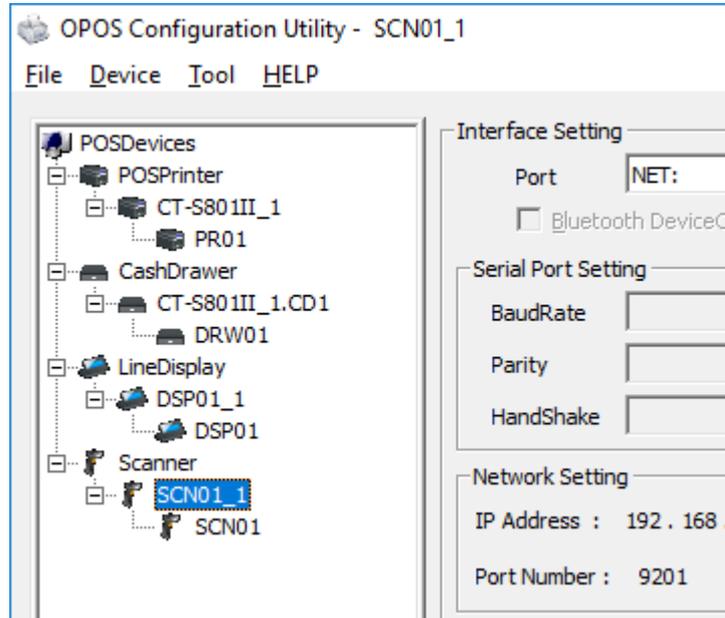
2) Click "Device Test" in the "Device" menu or the right-click menu (same menu is shown at each case) on the device view.
   This Configuration Utility executes some methods to diagnose selected scanner.
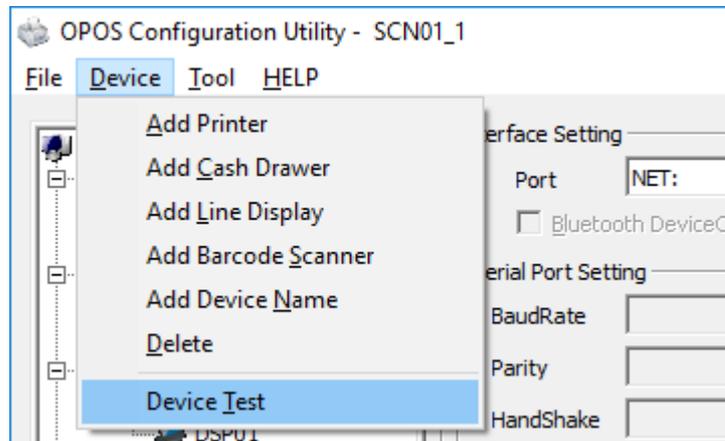
Result of Test

The following message is shown after the test was done correctly.
* It takes several seconds to test a printer. While this method is running, no other operations are disabled.

```
CT-S801II_1                                          ×

  i    The CheckHealth method succeeded.

       CheckHealth(2)
       CheckHealthText: External HCheck: Successful

                                          OK
```
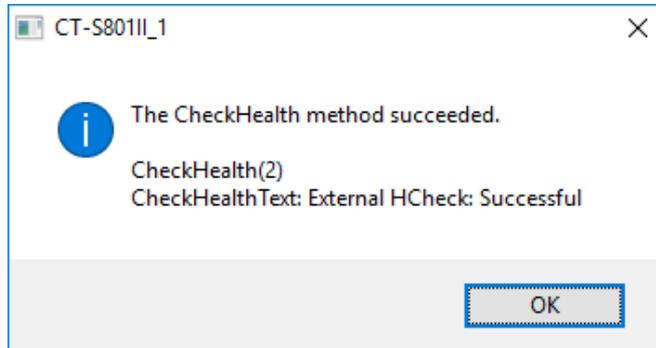
If any error occurred while testing, the following message is shown to describe the reason of the error.
* The following sample is the case that a printer is not connected. It describes that an error occurred at ClaimDevice method.

```
CT-S801II_1                                          ×

  ✕    Error occurred in calling the CheckHealth method.

       ClaimDevice(5000)
       ResultCode: 106
       ResultCodeExtended: 60002

                                          OK
```
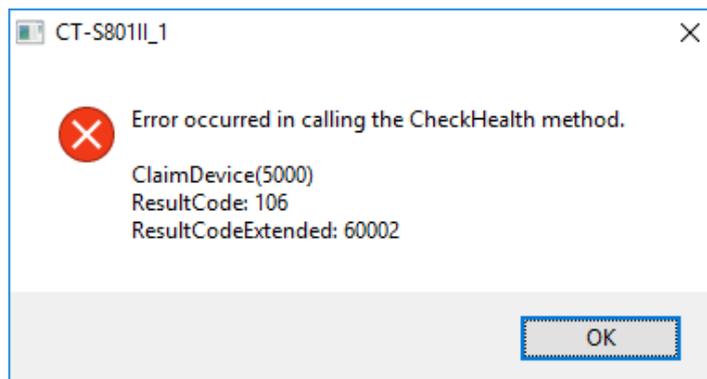
3.8. Tool Menu

Printer Settings

1) Click [Printer Settings] from [Tool] Menu.
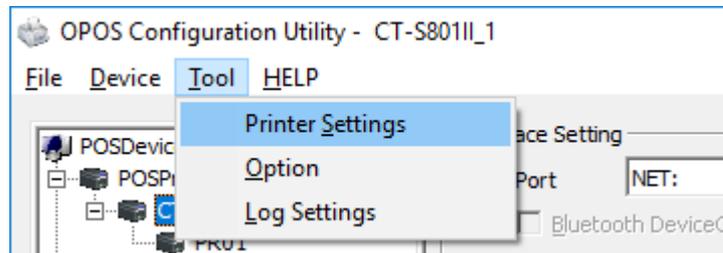
* The POS Printer Utility is activated when "Setting Printer" is clicked. Refer to the manual attached to the tool for the usage of this tool.

* The POS Printer Utility can be downloaded from the link of "POS Printer Utility" of utility software for printer on our homepage.

Option Setting

1) Click [Option] from [Tool] Menu.
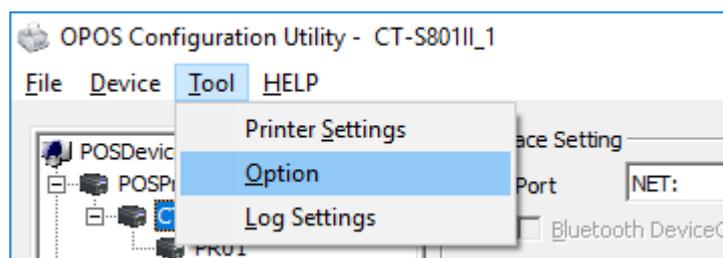
2) [Option] dialog is displayed.
When the POS Printer Utility has not been installed under the default directory, you can specify it on this screen.
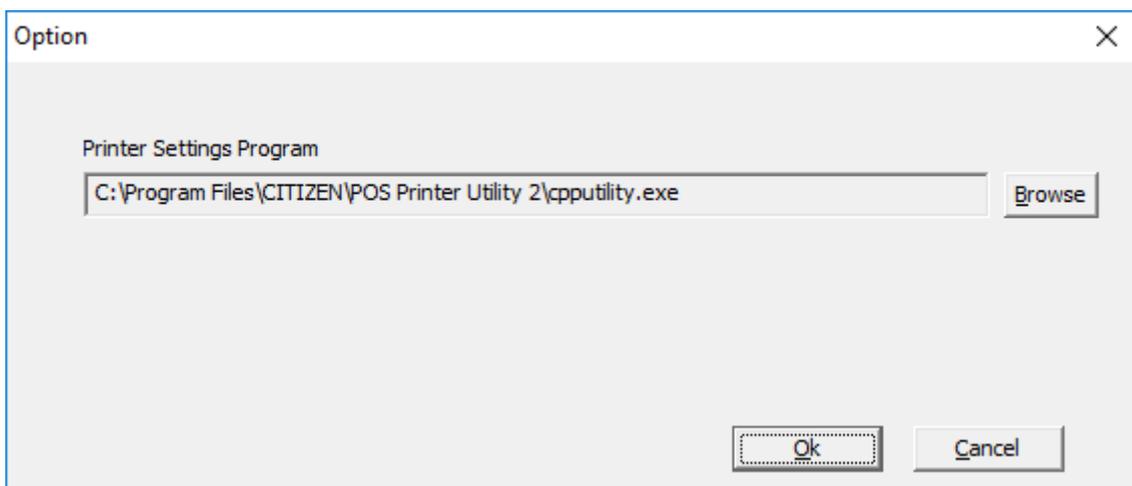
* C:\Program Files\CITIZEN\POS Printer Utility 2\cpputility.exe is the default setting when OPOS driver installation.

Log Setting

1) Select a device you want to set the log from the list of the Device view.
2) Click [Log Settings] from [Tool] Menu.
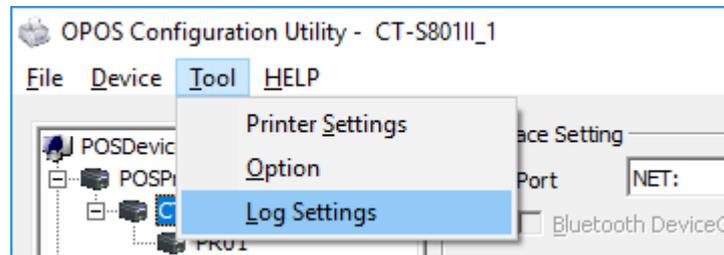
3) [Log Settings] dialog is displayed.
   You can configure log file settings of the selected device in the Device View tree. For the first time, "Without Log" is selected.
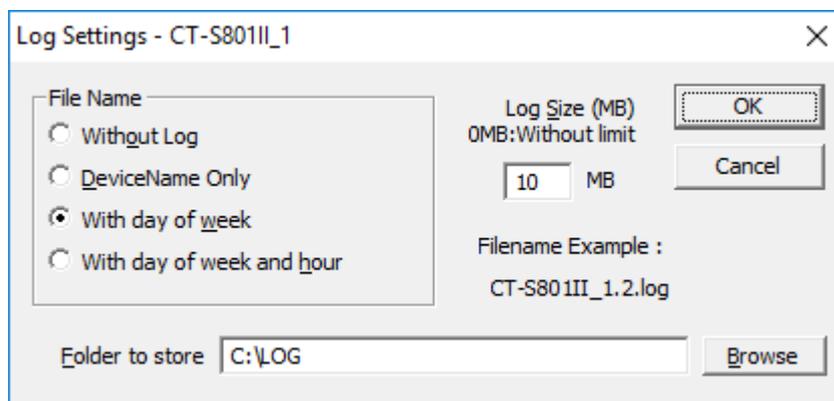
File Name
    Select a file name format to store as a log file.
    1. "Without Log"
       No log will be recorded. And, any other settings described below in this dialog cannot be modified.
    2. "DeviceName Only"
       A log will be recorded into a file whose file name is as same as DeviceName.
    3. "With day of week"
       In the file name, a numeric character which means the day of week is followed to DeviceName. The numeric character is from 0 to 6. "0" means Sunday, "1" means Monday, and so on.
    4. "With day of week and hour"
       2 digit numeric characters which are from 00 to 23 follow to "With day of week".

    Please refer to "Filename Example" on the dialog.

Log Size
    Specify maximum size of log file in MB. If 0 is specified, log data will be recorded without limit.

Folder to store
    Specifies a folder which log files will be stored. It must be described in full path. And you can use "Choose a folder" dialog by clicking the [Browse] button at right side.

For details of this setting, refer to Application Development Guide of this product.

3.9. Help Menu

Version Information

1) Click [Regarding Configuration Utility] from [Help] Menu.
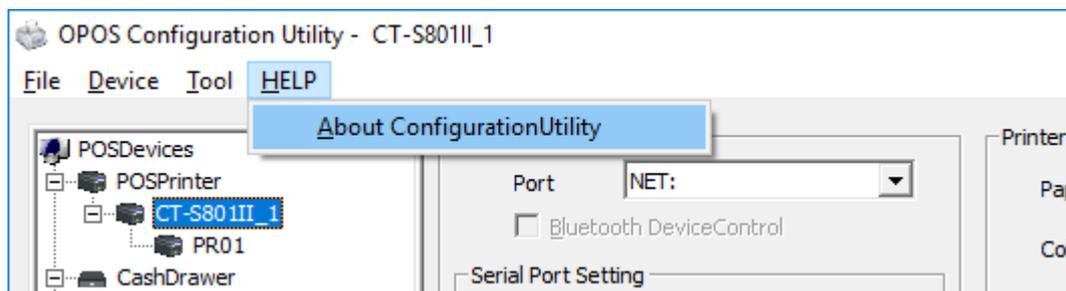
2) [Regarding OPOS Configuration Utility] dialog box is displayed.
   Details on version information for OPOS Driver/OPOS Configuration Utility can be viewed.
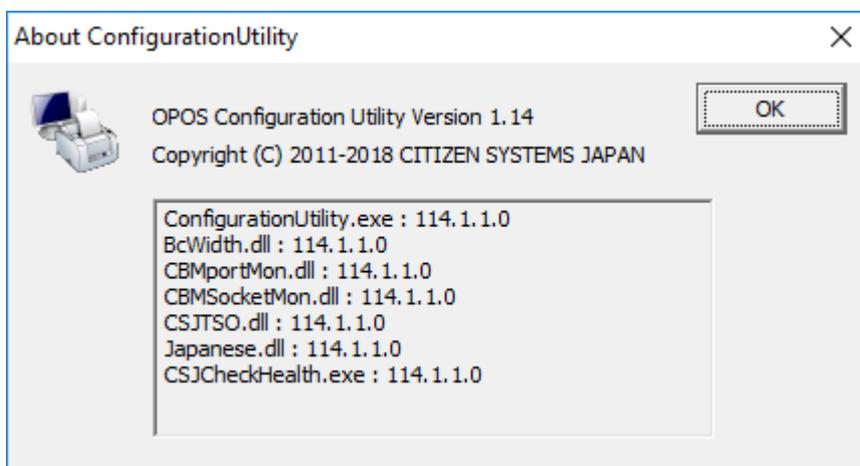
4. Printer Setting

Using this product assumes that the DIP switch and memory switch of the printer are set as shown below. For the details of the method of operating each switch and the content of setting, refer to User's Guide of each model.

4.1. CT-D150 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-

4.2. CT-D151 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-
13-6	Auto reconnect (Bluetooth interface only)	Invalid	-

4.3. CT-E351 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-

4.4. CT-E651 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-
13-6	Auto reconnect (Bluetooth interface only)	Invalid	-

4.5. CT-S251 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
8-6	Auto Side Shift	Invalid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift JIS	SJIS(CP932)	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.6. CT-281 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM270 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift JIS	Shift-JIS	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.7. CT-S310II Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift JIS	Shift JIS	-

4.8. CT-S601/651/801/851 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-2	PE signal by PNE	Invalid	-
3-3	Parallel 31Pin (when USB or parallel IF is used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	Enable	-
9-4	JIS/Shift JIS	Shift JIS	-
10-3	ACK timing (when USB or parallel IF is used)	Before BUSY	-

4.9. CT-S601II/651II/801II/851II Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-2	PE output at PNE	Invalid	-
3-3	Parallel 31Pin (when USB or parallel IF is used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-
10-3	ACK timing (when USB or parallel IF is used)	Before BUSY	-
13-6	Auto Reconnect (when Bluetooth interface is used)	Invalid	-

4.10. CT-S751 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-

4.11. CT-S2000 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-3	Parallel 31Pin (when USB or parallel IF is used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
7-6	DMA Control	Valid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	ON	-
9-4	JIS/Shift JIS	Shift JIS	-
10-3	ACK timing (when USB or parallel IF is used)	Before BUSY	-

4.12. CT-S4000 Series

DIP Switch Setting

DSW No.	Function	Setting	Description
8	INIT (when serial interface is used)	OFF	Disabled

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR Signal (when serial interface is used)	Invalid	-
1-8	INIT Signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-3	Parallel 31Pin (when USB or parallel IF is used)	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
5-5	Power OFF Info	Not send	-
7-6	DMA Control	Valid	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-3	Kanji	Enabled	-
9-4	JIS/Shift JIS	Shift JIS	-
10-3	ACK timing (when USB or parallel IF is used)	Before BUSY	-

4.13. CT-S4500 Series

Memory Switch Setting

MSW No.	Function	Setting	Description
1-1	Power ON Info	Valid	-
1-2	Buffer Size	4K bytes	-
1-3	Busy Condition	Full	-
1-4	Receiving Error	Print ?	-
1-5	CR Mode	Ignored	-
1-7	DSR signal (when serial interface is used)	Invalid	-
1-8	INIT signal (when serial interface is used)	Invalid	-
2-2	Auto Cutter	Valid	-
2-4	Full Col Print	WaitData	-
3-1	Resume Cttr Err	Valid	-
3-7	CBM1000 Mode	Valid	-
3-8	Resume Open Err	Close	-
4-8	Partial Only	Invalid	-
5-2	Line Pitch	1/360	-
6-1	Act. For Driver	Valid	-
7-6	DMA Control	Valid	-
8-4	Line Gap Reduce	Invalid	-
8-5	Reduced Char	100% / 100%	-
9-1	Code page	Katakana	-
9-2	Int'Char Set	Japan	-
9-4	Multi-byte Char	SJIS:CP932(JPN)	-
13-6	Auto reconnect (Bluetooth interface only)	Invalid	-

5. Barcode Scanner Setting

When using barcode scanner, barcode scanner must be set to OPOS specification.

5.1. SCN01-Z1D

Scan all the bar codes below from the top and change the settings.

	Start setting
	Change to USB VCOM
	Enable to identification code table of factory shipping
	End setting

5.2. SCN02-Z2D

Scan all the bar codes below from the top and change the settings.
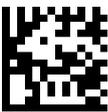
	Set to OPOS mode

5.3. BC-NL3000U

Scan all the bar codes below from the top and change the settings.

‖‖‖ ‖ ‖ ‖‖‖‖‖ ‖‖‖ ‖ ‖‖ ‖‖ ‖ 0006010	Start setting
‖‖ ‖ ‖‖‖‖‖ ‖‖ ‖ ‖‖‖ ‖ ‖ 1100060	Change to USB VCOM
‖‖‖ ‖ ‖‖ ‖‖‖‖ ‖ ‖‖‖‖ ‖ ‖ 0006000	End setting