

Installation Guide

● Overview

About overview and operating environment of NExD

● Installation

About from Installation of NExD to test print and uninstallation

● Various Tool

About printer tools built-in NExD

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 Note	Vital observance in use is described In correct handling against this indication may cause breakdown or operation failure of the product..
 Reference	Supplemental remarks and related matters are described.

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This product is not designed for use of aerospace hardware, main communication equipment, atomic control device, medical instrument etc. which require extremely higher reliability and safety. Make sure your decision upon users' enough acknowledgement to adequateness of this product in such applications.

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Introduction

NPI EX Driver (hereinafter referred to as “NExD”) is Windows driver for POS printer of Nippon Primex Inc.

NExD can control printer by NExD API for POS, KIOSK application.

Pre-configured NExD environment and printer can be restored to different computer.



This manual explains with screen of Windows XP.

Use this manual by reading when in use of other OS.

Refer to “Installation Guide (Windows 7)” for Windows 7 screen.

Refer to “Installation Guide (Windows 8)” for Windows 8 screen.

Operating Environment

OS: Supporting following operating systems.

- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8

Computer: Supporting a following computer enabling operation of the above-mentioned operating system

- PC/AT Compatible

Interface: Supporting a following interface

- **Serial**
- **USB 2.0 compliance**

(Full-Speed 12Mbps supported. No operation under Hi-Speed)

Application: Enable printing from Windows applications

Enable printing without programming from applications of commercial word processor / spreadsheet.

Developing application with SDK enable acquisition of printer information when requested by application

Overview

Restrictions of NExD is explained in this chapter.
Environment, OS configuration

1. In case of serial connection, “??” may be printed when recovered from Sleep or quiescent mode on start-up of OP.
2. Use Windows XP/Vista on mode of [enable detail print function] of printer driver [detail setting] (EMF Spool configuration)
3. Operation is not guaranteed under multi-user environment of Windows XP.
4. Reserved name of resource
NExD reserves a following each namespace.
Shared memory: Global¥SHMEM/ <printer name> /monitor /status
SHMEM/ <printer name> /uni /devmode /
Each printer name is inserted in a part of <printer name> in this name.
5. In case multi-printer drivers are allocated to the same port, the accurate status is not acquired.
6. The driver set up is conducted by user for remote maintenance.
7. UPD (port: 5200 <default value>) is used for remote maintenance.
8. TCP (port: 5201 <default value>), UDP (port: 5202 <default value>) are used in case a common printer is used.
9. Status etc. may not be imported correctly in common printer use, depending on usage situation of network.
10. User switching is not supported in use of common printer.
11. The data may not exist in case the file is opened during output to log file in generated log file.
12. Paper size is not imported correctly when using a customized paper in importing control of printer configuration.
13. Following files under “Windows¥system32” folder are not deleted by Nex_UnInstaller.exe under 64bit environment. Manually stop spooler and delete before activating spooler. * Stop/activation of spooler is conducted by Print Spooler within a service.
 - NExLM.DLL
 - NExStDoc.EXE
 - NExStPrt.EXE
 - NExStPrt.EXE.manifest
 - NExL_RSV.EXE
14. In serial communication, if printer’s power OFF/ON (including software reset) is repeated, it may be judged as OFF line tentatively.
15. There is a log function of IN/OUT to port, but it does not guarantee input/output.
16. As mode of color printing is set to other except monochrome, transmitting data to printer will be increased depending on size of color expression.
17. Some of configurable items in this driver may not be supported as printer.
18. It is necessary to reboot in order to enable change of remote maintenance Port/remote status Port.
 - * Function such as NiiGetStatus etc. automatically switch as needed.
19. It does not correspond to uninstall by “Nex_UnInstallwe.exe” in Windows 7 or 64bit OS.
20. When printer driver was deleted by “Nex_UnInstaller.exe,” after rebooting, it may become the condition that installed printer driver again. If this problem occurs, delete the device from “devices and printers” and also delete the driver from server properties.
21. If you set driver for the second, third and after PC in Windows 7, the setting driver becomes NP-211, so it needs to change the settings manually.
22. Note that more than 255 of half size of character cannot be used when device font is used.
23. Restart PC before reinstalling this driver.
24. Unprintable beyond 1m with color printing.
25. Be noted that multiple printers cannot be used with Bluetooth connection or combination of Bluetooth and COM.
26. Be noted that “Switching from ONLINE to OFFLINE” and “switching from OFFLINE to ONLINE” take 5 to 60 seconds (or longer in some case). Confirm switching ONLINE/OFFLINE by status monitor.

Confirmation before installation

Prepare as follows before installation.

- If printer is connected
- If printer is connected properly
- preparation of life (decompress if compressed)

Installation procedure

In case of connecting USB

Reboot system in following procedure and connect to printer.

- Turn on power of PC
- Turn on power of printer after system rebooted completely.
- Connect to PC after completion of rebooting printer.

Note

When rebooting system, if dialogue [Wizard of detecting a new hardware] against other equipment is shown, connect printer after completing installation of driver for that equipment.

- When printer newly connected, as dialogue [Wizard of detecting a new hardware] is shown, select [Install from view or specific location (details) (S)] and click on [Next (N) >] button.

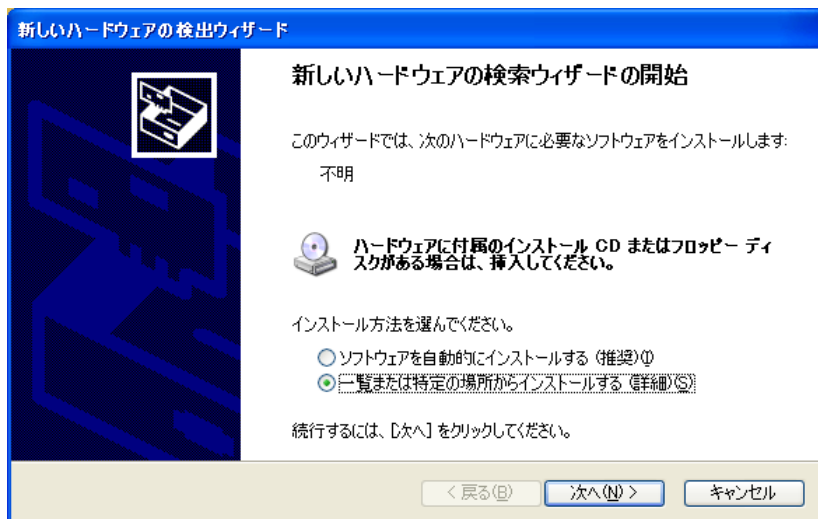


Fig. 1: Dialogue [Wizard of detecting a new hardware]

Installation

- Select “Include next location” and folder storing file of printer driver set up from reference (R) button, and then click on [Next (N)] button.

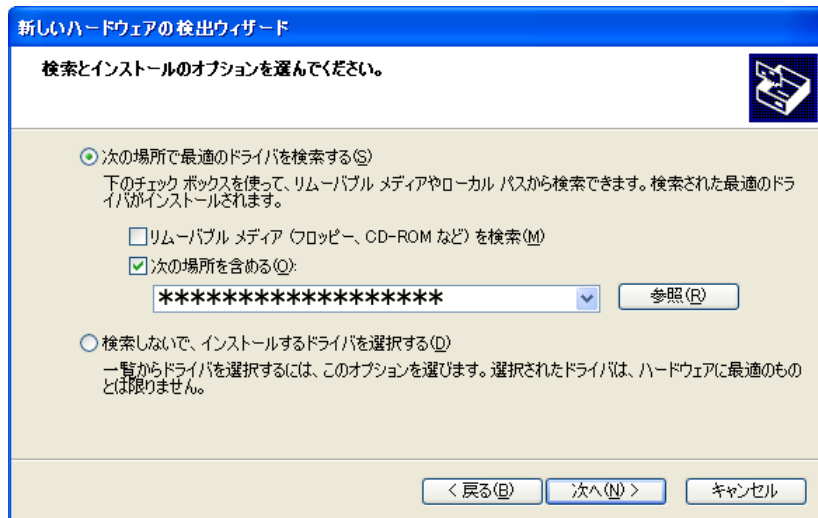


Fig. 2: Identification of driver file

- If a following dialogue is shown during installation, click on [Continue (C)] button to continue installing.

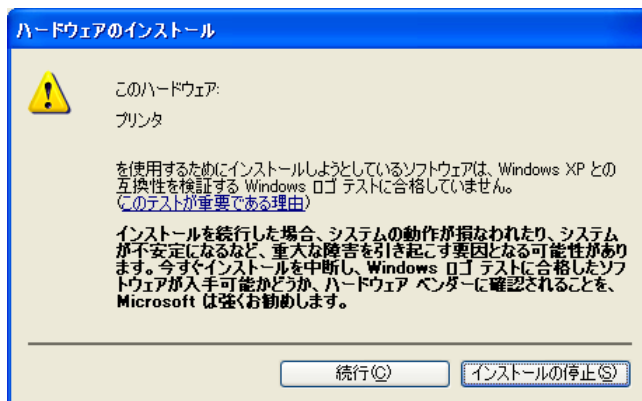


Fig. 3: Confirmation of Digital Signature

Installation

- Click on [Complete] button.



Fig. 4: Completion of Wizard of detecting a new hardware.

- When installation completed, icon of printer driver installed is shown in [Printer & FAX] window.

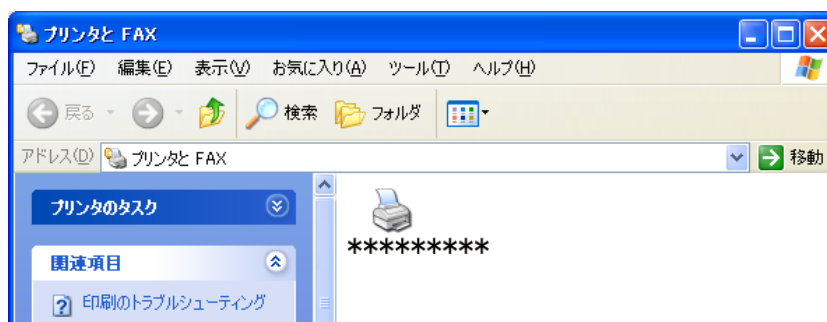


Fig. 5: [Printer & FAX] window after a driver added

Installation Procedure

In case of serial (COM) connection

Note

Notation of Windows XP is described as set to categorized notation (default setting). In case classic indication is selected, directly select that category.

- Click on [Start] button to reboot [Control Panel (C)].
Click on [Printer & Other Hardware], and then click on [Printer & FAX] once window is switched.

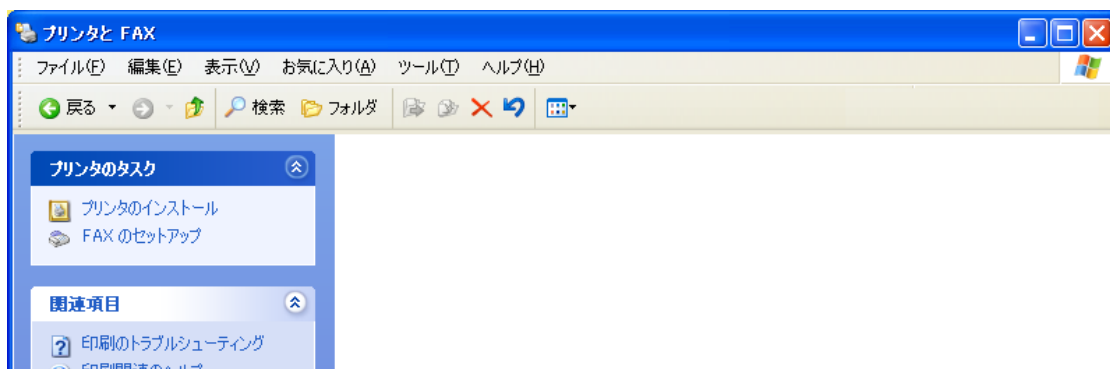


Fig. 6: [Printer & FAX] window

- Click on [installation of printer]
- Click on [Next (N) >] button.

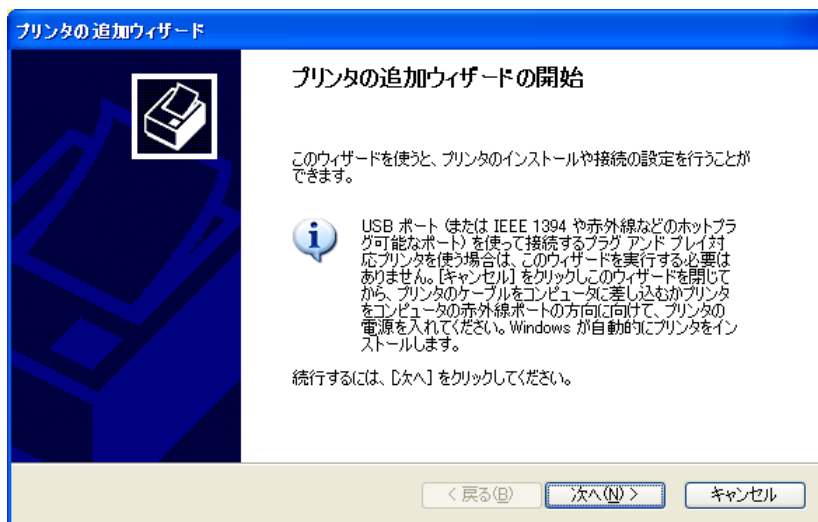


Fig. 7: Start of wizard of adding a printer.

- Select [Local printer (L)] and click on [next (N) >] button.

Note

[Install by auto-detecting plug & play printer (A)] is not available.

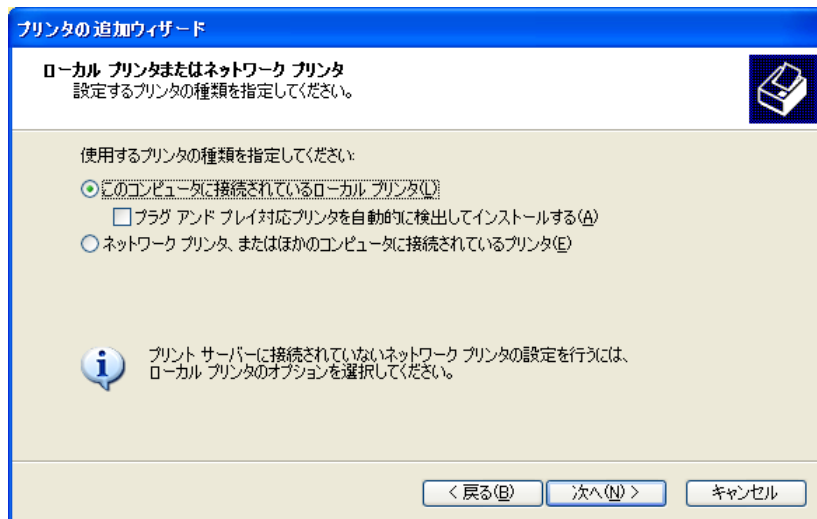


Fig. 8: Selection of access point

- Select a port connected with printer and click [next (N) >] button.

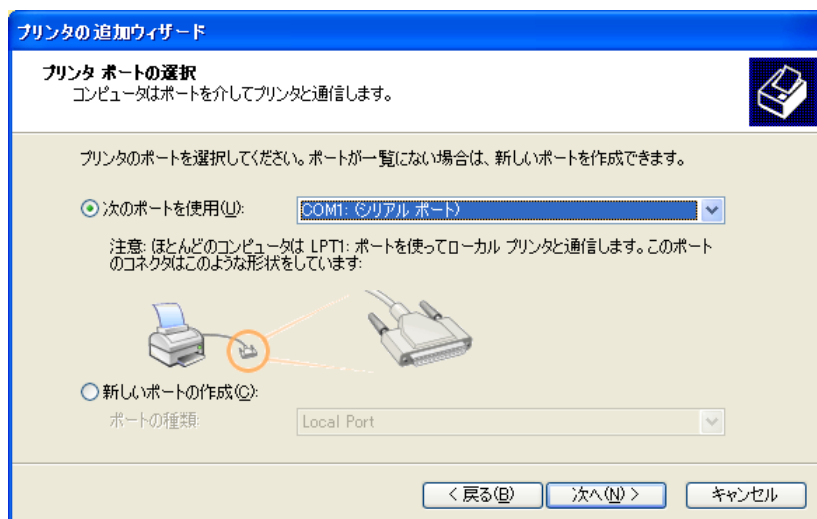


Fig. 9: Selection of access port

- Click on [Disc use (H)] button.

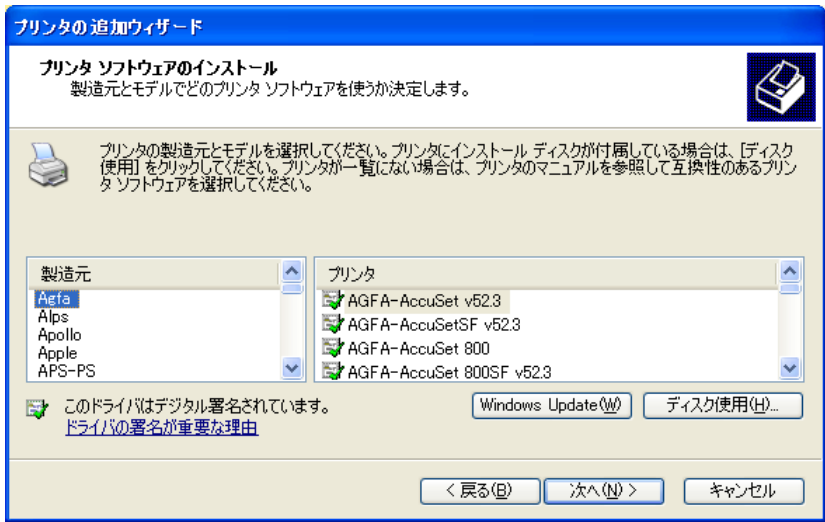


Fig. 10: Selection of Printer model

- Select folder storing a printer driver set up file from a reference button and click on [OK] button.

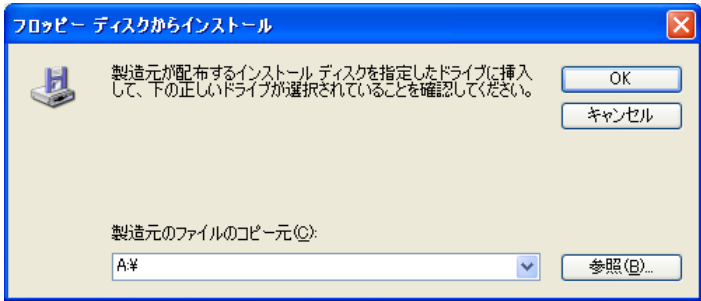


Fig. 11: Selection of driver

- Select printer model and click on [next (N) >] button.

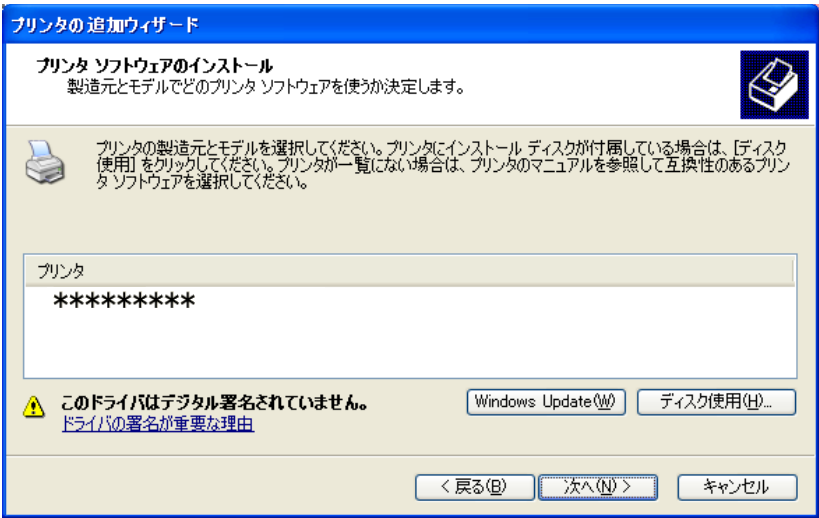


Fig. 12: Selection of Printer Model

- Input printer name when needed and click on [next (N) >] button.

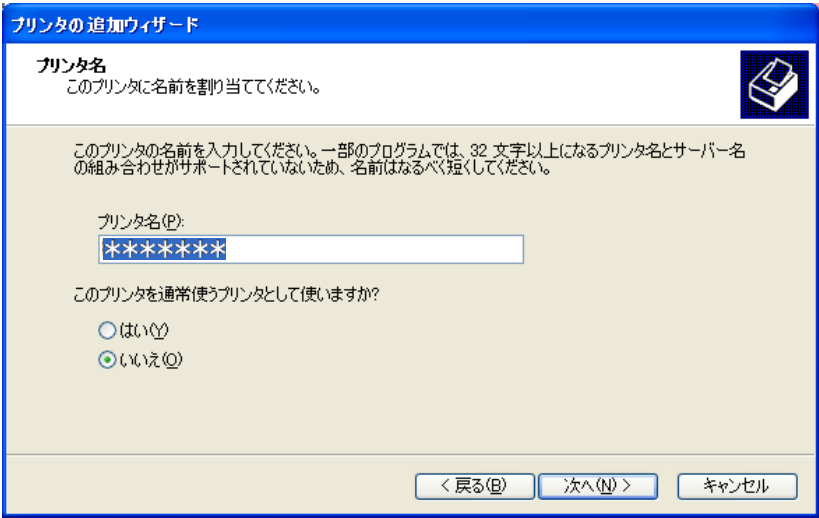


Fig. 13: Setting of Printer name



Check on [No (N)] in case the printer not used regularly

- After selecting whether or not test page is printed, please click on [next (N)] button.

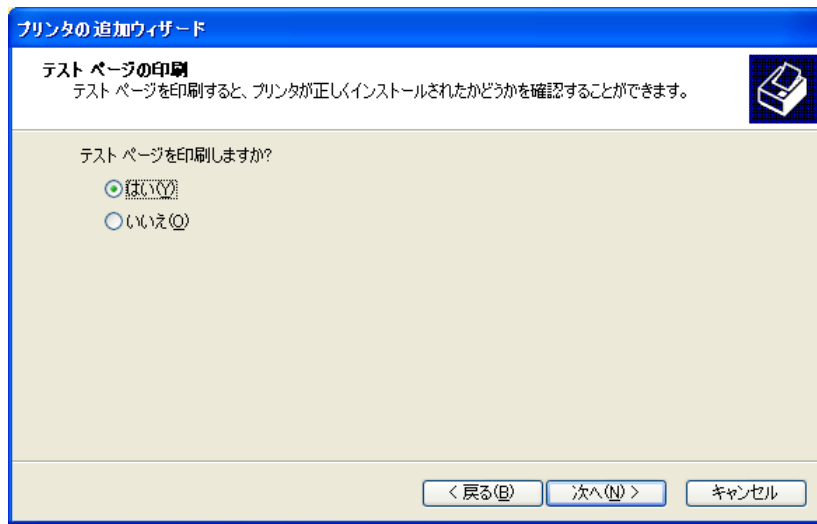


Fig. 14: Selection of test printing

- Click on [Completion] button after confirming setting contents are correct. If setting is changed, return with [< Return (B)] button.

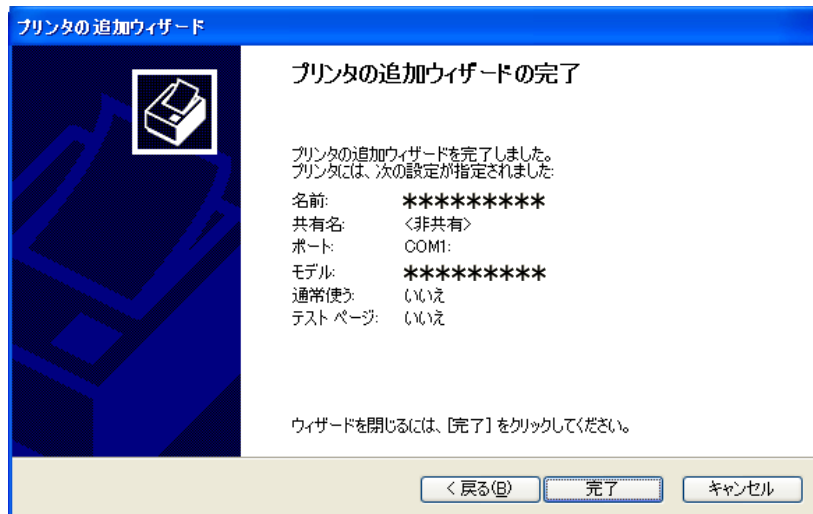


Fig. 15: Completion of Wizard of adding printer

Installation

- In case a following dialogue is shown during installation, click on [Continue (C)] button to continue installation.

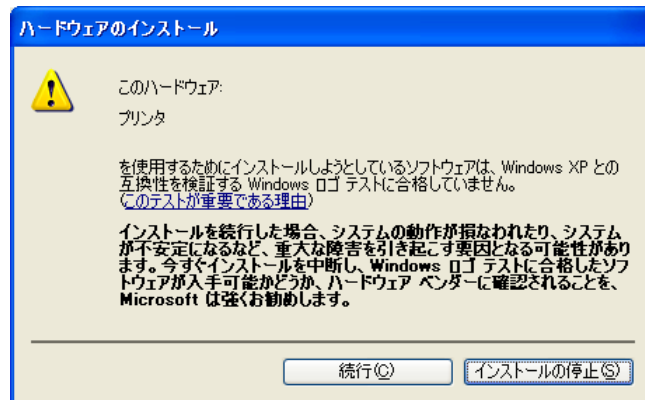


Fig. 16: Confirmation of Digital Signature

- Once installation completed, icon of the printer driver installed is shown in the window of [Printer & FAX]

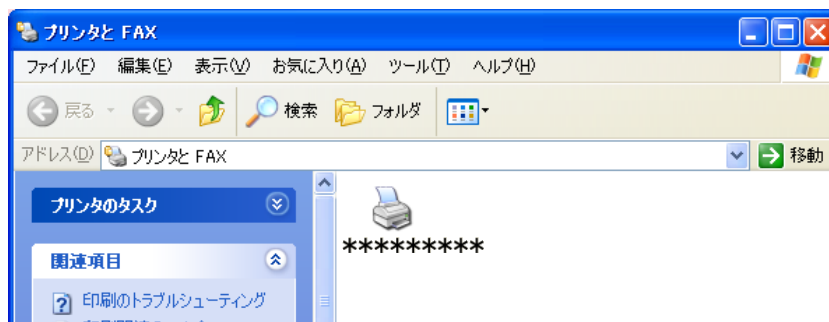


Fig. 17: Window of [Printer & FAX] after adding a driver

Installation procedure

In case of TCP/IP connection

- * TCP/IP connection correspond to Windows XP/7/8. (Vista is not compliant)
Use the latest patch of each OS.

Refer to the appendix [Installation guide (Windows 7) or Installation guide (Windows 8)]

Connecting Printer

In case of USB interface

- Turn on power of printer after more than 5 seconds from power off the printer.
- Use correct USB cable, USB hub which follow a USB 2.0 standard (12Mbps).
- Use the Max. 5m USB cable length and Max. number of hub within 2 stage.

Connecting Printer

In case of serial (COM) connection

Port setting of printer driver shall be corresponded to printer setting (baud rate / data bit / parity / stop bit / flow control).

Reference Port setting is activated from property window of port [Fig. 19] by selecting a connected serial port from view on port tab of printer property, a click on [port configuration (C)] button.

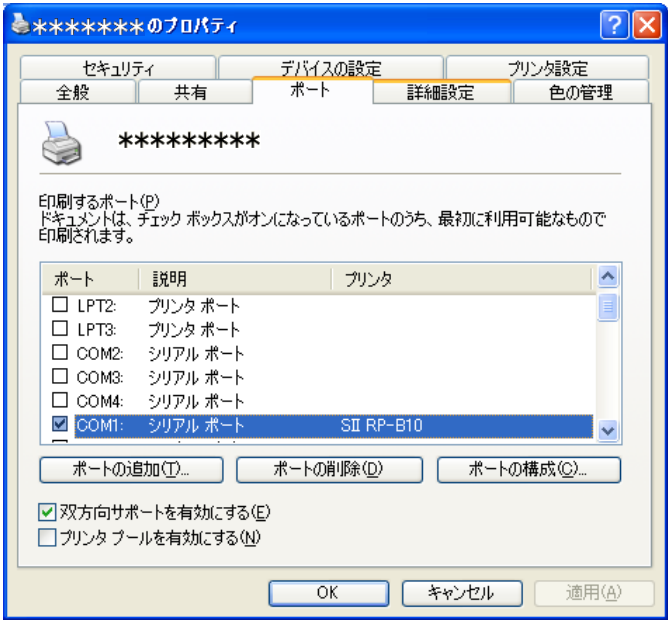


Fig. 18: Property of Printer

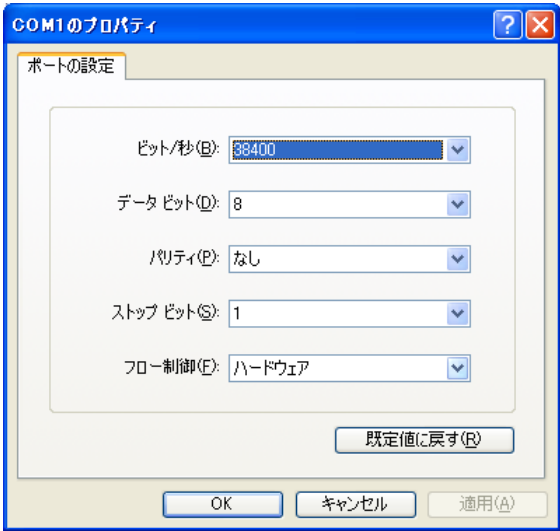


Fig. 19: Property of Port

Reference Printer setting is confirmed by activating a printer self-testing

Note Set value after change in port setting may not become effective. Try to reboot PC or to reset the target port once another port applied.

Test Page Printing

Test page printing confirms if NExD is installed properly.
Take a following procedure for test page printing.

- Open [Printer & FAX] and make a right click on an installed printer driver to select property.

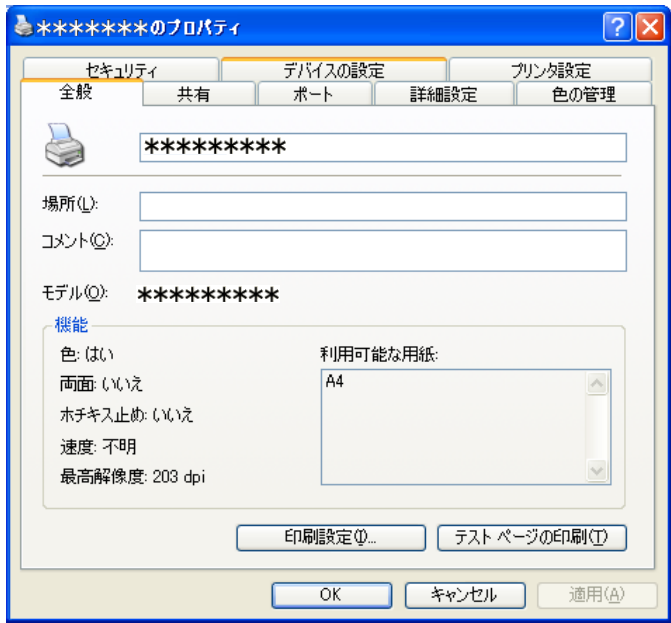


Fig. 20: Property of Printer

- Click on [Test Pager Print (T)] button to print test page.



Fig. 21: Printing Result

Reference

Test page printing of NExD does not print all of the data like a normal test page printing. In addition, test page printing is printed as picture image data. Print will be slow for a longer communication time with printer in case of serial interface owing to a large quantity of printing data.

Test Page Printing

- Confirmation window of test page printing result is shown. Click on [OK] button if printed properly.
If not printed properly, click on [trouble shooting (T)] button and follow message of window.

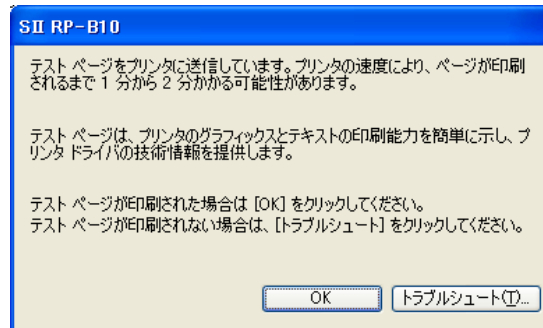


Fig. 21: Window to confirm printing result

Uninstallation

Activate [Nex_UnInstaller.exe] in printer driver set up file and select a target printer and click on [Driver UnInstall] button.

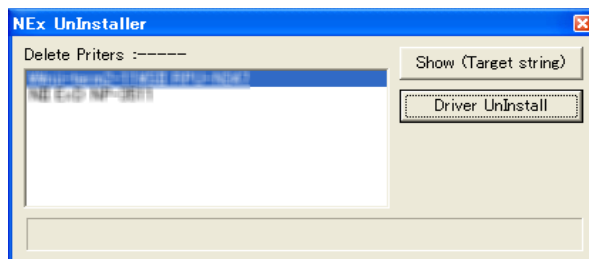


Fig. 22: NEx_UnInstaller

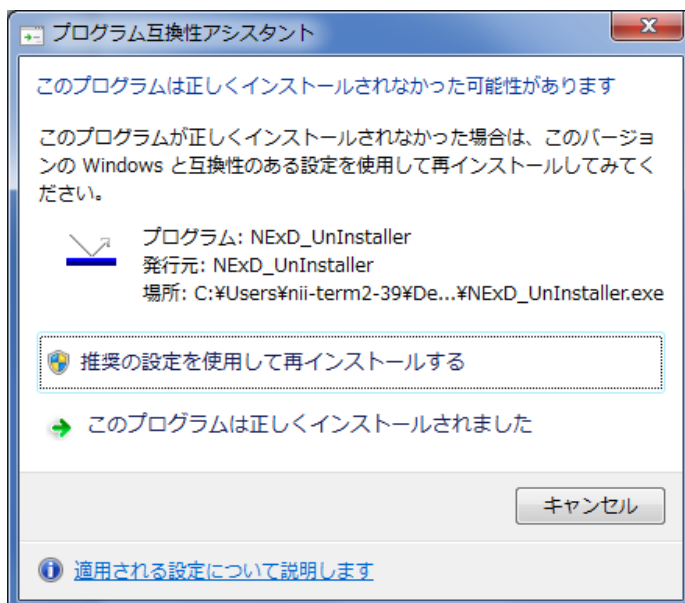
Note

Uninstaller is usable with Windows XP/Vista (beyond Service Pack 1)/8 (each 32bit OS).

DO NOT use with Windows 7 or each 64bit OS.
(Reinstallation of driver may not be available)

Uninstall manually for Windows 7 or each 64bit OS.
(Refer to appendix [Driver deletion operation for Windows 7].)

- Click [Cancel] in case the following window is shown when exe. Is closed.



Replace Printer

Pay an attention to following point when replacing a printer with the same model and interface for repairing.

Take a following setting for each interface.

Explanation of Interface

Serial	Activate self-test printing of printer, change driver's setting in conformity with port setting, after connecting, change memory switch, change to port setting before replacement, then, return driver's setting to original setting
USB	There is no setting after replacement. However, if USB serial ID is configured, reset printer after changing USB serial ID at your side since printer installation will take place.

Introduction of various tools integrated in NExD

- **Status Viewer**
Acquires and shows printer status and various information.
- **Printer Setting**
Activates setting printer and font

 - Barcode font
 - 2 dimensional barcode font
 - NII control font<Printer>
 - Memory Switch
 - USB serial ID
 - Black mark
 - Printer setting control (import / export setting of printer and NExD).<Control>
 - Log control
 - Movement at error
- **Test Printing**
Click target button to generate printer command and activate test printing.
- **NV image registration**
Register image into printer as NV image and print currently registered image.



Enable a simple image edition

- **Code Page Registration**
Register data of user code page and print a currently registered user code page.



Enable marking of font on screen.

- **Firmware Downloading**
Activate downloading firmware into printer.